

2016년도 발간논문 420편: (2018. 1. 1. ~ 7. 4.: 708회 피인용)

| Volume 33 number 1 |            | 2016년 1월호         |          | 16/45 18/1/8, 24/45 18/2/9,, 35/45 18/3/23,,, 49/45 18/5/15,,,, 65/45 18/7/4 |                                       |  |
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| 1                  | ,, 1       | ,,, 1             | 이경범      | 최수형(전북대)(self)   | 정승호(Review Paper)                     | Facility siting and plant layout optimization for chemical process safety  |
| 8                  |            | ,,, 1             | 김범수      |  | Prakorn Ramakul (Rapid Communication) | Application of hollow fiber supported liquid membrane as a chemical reactor for esterification of lactic acid and ethanol to ethyl lactate   |
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| 25                 |            | ,, 1              | 이경범      | 이종민(서울대)   | 이종민                                   | Dynamic optimization of maintenance and improvement planning for water main system: Periodic replacement approach                            |
| 33                 |            |                   | 이경범      |  | 이재형                                   | Estimation of local concentration from measurements of stochastic adsorption dynamics using carbon nanotube-based sensors                    |
| 46                 | 1,,, 1     | ,,, 1             | 이경범      | 황성원(인하대)(self)   | 조정호                                   | Optimization study of pressure-swing distillation for the separation process of a maximum-boiling azeotropic system of water-ethylenediamine |
| 57                 |            |                   | 김민찬      |  | 장우진                                   | Microfluidic room temperature ionic liquid droplet generation depending on the hydrophobicity and interfacial tension                        |
| 63                 |            | ,,, 1             | 김민찬      |  | Shichao Ye                            | Modeling and experimental studies of ammonia absorption in a spray tower   |
| 73                 |            | ,,, 1             | 김민찬      | 고영주(공주대)   | 이창근                                   | Performance analysis of K-based KEP-CO2P1 solid sorbents in a bench-scale continuous dry-sorbent CO2 capture process                         |
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| 99                 |            |                   | 김태진      |  | Congming Tang                         | Sustainable production of acetaldehyde from lactic acid over the carbon catalysts  |
| 107                |            | ,,, 2<br>,,, 2    | 이관영      | 정상철(순천대)<br>추광호(경북대)   | Xinyan Xiao                           | Preparation of titanium dioxide/tungsten disulfide composite photocatalysts with enhanced photocatalytic activity under visible light        |
| 114                | 1          | 1                 | 김태진      | 배윤상(연세대)   | 정지철, 박종호                              | Preparation of Cu/ZnO catalyst using a polyol method for alcohol-assisted low temperature methanol synthesis from syngas                     |
| 120                |            | 3                 | 박은덕      | 권용재&정용진(서울과기대) 공동교신<br>김문일&김일대(가천대) 공동교신                                     | Inamuddin                             | Fabrication of bioanode by using electrically conducting polythiophene via entrapment technique  |
| 126                |            | ,, 1              | 박은덕      |  | Mojtaba Amini                         | Efficient and selective oxidation of olefins and alcohols using nanoparticles of WO3-supported manganese oxides (W1-xMnxO3)                  |
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| 140                |            | ,,, 1             | 박은덕      |  | Piyasan Praserttham                   | Ethylene and mixed 2-butene cis/trans isomers metathesis: Influence of lanthanum as a second metal on the WO3/SiO2 catalysts                 |
| 147                |            |                   | 이재우      |  | 전충환                                   | Ash deposition characteristics of Moolarben coal and its blends during coal combustion   |
| 154                |            | 1,,, 1            | 엄영순      | 권용재(서울과기대) 2   | Mostafa Rahimnejad                    | Improvement of sediment microbial fuel cell performance by application of sun light and biocathode   |
| 159                |            | ,,, 2             | 추광호      |  | Yanming Shen                          | Removal of Pb2+ from the aqueous solution by tartrate intercalated layered double hydroxides   |
| 170                |            | , 1,, 1           | 추광호      |  | Yuantao Chen                          | Removal of UO22+ from aqueous solution using halloysite nanotube-Fe3O4 composite   |
| 178                |            | 1, 1,, 1<br>,,, 2 | 추광호      |  | Alireza Khataee, Semra Karaca         | Ultrasound-assisted adsorption of textile dyes using modified nanoclay: Central composite design optimization                                |
| 189                |            | ,,, 3             | 추광호      |  | Afshin Ebrahimi                       | Electrochemical degradation of the Acid Orange 10 dye on a Ti/PbO2 anode assessed by response surface methodology                            |
| 197                |            |                   | 추광호      |  | Ura Pancharoen, Suphot Phatanasri     | Separation of mercury and arsenic from produced water via hollow fiber contactor: Kinetic and mass transfer analysis                         |
| 207                |            |                   | 추광호      |  | Bo Lai, Donghai Yuan                  | Degradation of ultrahigh concentration pollutant by Fe/Cu bimetallic system at high operating temperature                                    |
| 216                |            | 1                 | 김범수      | 권용재&정용진(서울과기대) 공동교신  | Shivaji Hariba Pawar                  | Immobilization of cellulase on functionalized cobalt ferrite nanoparticles   |
| 223                |            |                   | 김범수      |  | 최기욱, 정봉우                              | An integrated process for continuous cellulosic bioethanol production  |
| 230                | ,, 1       | 1, 1<br>,,, 1     | 김범수      | 이철균(인하대)   | 이기세                                   | Enhancement of lipid production in marine microalga Tetraselmis sp. through salinity variation   |
| 238                |            |                   | 김진련      |  | Nilanjana Das                         | Application of a novel nanobiocomposites for removal of nickel(II) from aqueous environments: Equilibrium, kinetics, thermodynamics .....    |
| 248                |            |                   | 박윤국      |  | 임종성                                   | Vapor-liquid equilibria for the binary mixtures of dimethyl ether (DME) + dimethyl carbonate (DMC)   |
| 255                |            |                   | 박윤국      |  | 염민선, 김은애                              | Hydrogen bond dynamics in liquid water: Ab initio molecular dynamics simulation  |
| 260                |            | ,, 1              | 박중곤      | 박윤국(홍익대)   | 박윤국                                   | Measurement and correlation of vapor-liquid equilibria for a binary system containing 1-butyl-3-methylimidazolium .....                      |
| 265                |            | 1,,, 1            | 박윤국      | 이기봉(고려대)&노남선(KIER) 공동교신  | 이기봉, 노남선                              | Solvent recovery in solvent deasphalting process for economical vacuum residue upgrading   |
| 271                |            | ,,, 1             | 박윤국      |  | 김문갑                                   | Excess volume and excess enthalpy of binary mixtures composed of 1,2-dichloropropane and 1-alkanol (C5-C8)                                   |

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| 277 |   | , 2, 1<br>1 | 박윤국 | 변현수(전남대)&이봉<br>섭(경남대) 공동교신<br>3<br>변현수(전남대)  | 변현수                 | Phase behavior for the poly(alkyl methacrylate) + supercritical CO <sub>2</sub> + DME mixture at high pressures            |
| 285 |   | 1, 1        | 김도형 | 김일태(가천대)                                     | 문승현                 | Flame retardant coated polyolefin separators for the safety of lithium ion batteries                                       |
| 290 | 1 | , 1, 1      | 김도형 | 김대형(서울대) (self)<br>전기준(인하대)                  | 김선욱                 | High surface area polyaniline nanofiber synthesized in compressed CO <sub>2</sub> and its application to a hydrogen sensor |
| 299 | 1 | , 1         | 김도형 | 김대형(서울대) (self)                              | 이건홍                 | Improving the tensile strength of carbon nanotube yarn via one-step double [2+1] cycloadditions                            |
| 305 |   |             | 김도형 |  | 김선욱                 | A simple synthesis of Ag <sub>2</sub> +xSe nanoparticles and their thin films for electronic device applications           |
| 312 |   |             | 하기룡 |  | Jiangyang Fan       | Preparation of monodisperse poly(styrene-co-divinylbenzene) microspheres by vibration dispersion method                    |
| 319 |   | , 1         | 이대연 |  | Mohammad Barmar     | Synthesis and characterization of polyhedral oligomeric silsesquioxane-based waterborne polyurethane nanocomposites        |
| 330 | 1 | , 1         | 하기룡 | 김대형(서울대) (self)                              | 김승우                 | Morphology, thermal, mechanical, and barrier properties of graphene oxide/poly(lactic acid) nanocomposite films            |
| 337 |   | , 1, 2      | 김성한 |  | Farouq Sabri Mjalli | Characteristics and intermolecular interaction of eutectic binary mixtures: Reline and Glyceline                           |
| 344 | 1 | , 1         | 정경열 | 김대형(서울대) (self)<br>김수길&안상현&하돈<br>형(중앙대) 공동교신 | 김영훈                 | Electrochemical sensor applications of Pt supported porous gold electrode prepared using cellulose-filter                  |

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| 351                |            | 4, 2,, 3<br>,,, 2<br>,,, 1 | 최수형      | 권용재&정용진(가천대)&이진우(POSTECH)<br>) 공동교신<br>이동현(성균관대)<br>정경열(공주대)<br>유창규(경희대) 2<br>양대륙(고려대) | 유창규<br>(Invited Review Paper)        | Efficient thermal desalination technologies with renewable energy systems: A state-of-the-art review  |
| 388                |            | , 1,, 1<br>,,, 1<br>,,, 3  | 하기룡      |  | Khalid Mahmood Zia<br>(Review Paper) | Recent trends in environmentally friendly water-borne polyurethane coatings: A review   |
| 401                |            |                            | 김도형      |  | 정수환<br>(Rapid Communication)         | Facile route to multi-walled carbon nanotubes under ambient conditions  |
| 405                | , 1        | 1                          | 최수형      | 임영섭(서울대)<br>이문용(영남대)(self)   | 김진국                                  | A design procedure for heat-integrated distillation column sequencing of natural gas liquid fractionation processes                                     |
| 416                |            |                            | 최수형      |  | 이지태                                  | Globally stable control systems for processes with input multiplicities   |
| 423                |            | , 1                        | 최수형      |  | Seyed Hamed Mahdavian                | Simultaneous multi-objective optimization of a new promoted ethylene dimerization catalyst using grey relational analysis and entropy measurement       |
| 438                | , 1        |                            | 김민찬      | 이재우(KAIST)(self)   | 이재우                                  | Dynamic modeling of fixed-bed adsorption of flue gas using a variable mass transfer model   |
| 448                |            | , 1                        | 김민찬      | 안경현(서울대)   | Mustafa S. Nasser                    | Flocculation and viscoelastic behavior of industrial papermaking suspensions  |
| 456                |            | , 1,, 2<br>,,, 3           | 박은덕      |  | AdinarayanaReddy Somala              | Graphene-ZnO nanocomposite for highly efficient photocatalytic degradation of methyl orange dye under solar light irradiation                           |
| 465                |            | , 1                        | 김태진      | 고창현(전남대)   | 성호진                                  | Catalytic application of metallic iron from the dyeing sludge ash for benzene steam reforming reaction in tar emitted from biomass gasification         |
| 473                |            | , 1<br>,,, 1               | 김태진      |  | Seyed Mahdi Latifi                   | High temperature water gas shift reaction over Fe-Cr-Cu nanocatalyst fabricated by a novel method   |
| 481                |            |                            | 이관영      |  | MohammadHossein Rasoulifard          | Adsorption and photocatalytic degradation of organic dyes onto crystalline and amorphous hydroxyapatite: Optimization, kinetic and isotherm studies     |
| 490                |            | , 1,, 1<br>,,, 1           | 박은덕      |  | Mehran Rezaei                        | COx-free hydrogen and carbon nanofibers production by methane decomposition over nickel-alumina catalysts   |
| 500                | 2          | 1,,, 1                     | 박은덕      | 배운상(연세대)<br>김진수(경희대)&유계성(서울과학기술대)<br>공동교신(self)<br>홍기중(POSTECH)                        | Wei Li                               | CO hydrogenation to higher alcohols over Ni- and Mo-modified Cu/CeO2 catalyst   |
| 507                |            | , 1                        | 이재우      |  | 이충곤                                  | Oxidation of ash-free coal from sub-bituminous and bituminous coals in a direct carbon fuel cell  |
| 514                | , 2        | , 1,, 2<br>,,, 2           | 이재우      | 정상문(충북대),<br>정상철(순천대)(self),<br>황동수&이진우(POSTECH)(self)<br>이재원(단국대)                     | 이재원                                  | Properties of LiNi0.8Co0.1Mn0.1O2 as a high energy cathode material for lithium-ion batteries   |
| 527                |            |                            | 엄영순      |  | 김대호                                  | Energy efficiency of a scaled-up microwave-assisted transesterification for biodiesel production  |
| 532                |            | 1, 1<br>,,, 1              | 추광호      |  | Ghasem Azarian                       | Degradation of azo dye C.I. Acid Red 18 using an eco-friendly and continuous electrochemical process  |
| 539                |            | 1, 1<br>,,, 4              | 임광희      | 윤재경(KIER)  | Farshid Ghanbari                     | Photocatalytic degradation of azo dye using nano-ZrO2/UV/persulfate: Response surface modeling and optimization   |
| 547                |            |                            | 추광호      |  | Shufa Zhu                            | Enhanced electrokinetic remediation of fluorine-contaminated soil by applying an ammonia continuous circulation system                                  |
| 553                |            |                            | 추광호      |  | Dongsheng Shen                       | Adsorption properties of Friedel's salt for the nitrate in the landfill   |
| 559                |            |                            | 추광호      |  | Ankur Gupta                          | Simultaneous removal of Cr(VI) and phenol from synthetic binary solution using consortium culture of Bacillus sp. and E. coli immobilized on-----       |
| 567                |            | , 1                        | 추광호      |  | Monoj Kumar Mondal                   | Characterization, isotherm and kinetic study of Phaseolus vulgaris husk as an innovative adsorbent for Cr(VI) removal                                   |
| 576                |            |                            | 추광호      |  | Fu-Qiang An                          | Effective removal of anilines using porous activated carbon based on ureaformaldehyde resin   |
| 582                |            |                            | 김범수      |  | Yousuf Jamal                         | Esterification of acetic and oleic acids within the Amberlyst 15 packed catalytic column  |
| 587                |            | , 1                        | 김범수      |  | Srinivasa Reddy Ronda                | CO2 fixation and lipid production by microalgal species   |
| 594                |            | , 2<br>,,, 1               | 김범수      |  | Antonio Montes                       | Preparation of polyphenol fine particles as potent antioxidants by a supercritical antisolvent process using different extracts of Olea europaea leaves |

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| 603 | ,, 1 | 1, 1            | 김범수 | 박영권(서울시립대) 2            | 최연석                                     | Synergetic effect of biomass mixture on pyrolysis kinetics and biocrude-oil characteristics   |
| 610 |      | 1,,, 1<br>,,, 2 | 차형준 | 권용재(서울과기대)              | Jian Dong Cui                           | A facile technique to prepare cross-linked enzyme aggregates of bovine pancreatic lipase using bovine serum albumin as an additive    |
| 616 |      | 1,,, 1<br>,,, 2 | 이병철 |                         | Ali Morad Rashidi                       | Preparation of nanoporous activated carbon and its application as nano adsorbent for CO2 storage                                      |
| 623 |      | ,,, 1           | 박윤국 |                         | Yigang Ding                             | Impact of seed loading ratio on the growth kinetics of mono-ammonium phosphate under isothermal batch crystallization                 |
| 629 |      | ,,, 1           | 김종학 |                         | Sayedmohsen Hosseini, Farah Sadat Halek | Fabrication of poly(ether sulfone) based mixed matrix membranes modified by TiO2 nanoparticles for purification of biodiesel produced |
| 638 |      | ,,, 1           | 김종학 |                         | Mohamed Khitous                         | Sorption of Cr(VI) by MgAl-NO3 hydrotalcite in fixed-bed column: Experiments and prediction of breakthrough curves                    |
| 649 |      |                 | 박윤국 |                         | Murari Prasad                           | Kinetic model for sorption of divalent heavy metal ions on low cost minerals  |
| 657 | ,, 1 | , 1,,, 1        | 김종학 |                         | AmirHosseinSaeedi Dehaghani             | CO2/CH4 separation with poly(4-methyl-1-pentyne) (TPX) based mixed matrix membrane filled with Al2O3 nanoparticles                    |
| 666 |      | 1               | 김종학 | 김종학(연세대)&김정훈(화학연) 공동교신  | 강상욱                                     | 1-Methyl-3-octylimidazolium tetrafluoroborate/AgO nanoparticles composite membranes for facilitated gas transport                     |
| 669 |      | ,, 1            | 채희엽 |                         | SeyedAbolfazlSeyed Sadjadi              | Polypyrrole-polyaniline/Fe3O4 magnetic nanocomposite for the removal of Pb(II) from aqueous solution                                  |
| 678 | ,, 1 | , 1             | 김도형 | 김도형(전남대)(self)          | 박진호                                     | Controlling the morphology of the active layer by using additives and its effect on bulk hetero-junction solar cell performance       |
| 683 |      |                 | 김도형 |                         | 김우식                                     | Synthesis of rare earth oxide nanoplates with single unit cell thickness using a thermal decomposition method                         |
| 688 | , 1  |                 | 김도형 | 활동수&이진우(POST ECH)(self) | 곽호영                                     | Characteristics of LiFePO4/C composite prepared by sonochemical method under multibubble sonoluminescence                             |
| 697 |      |                 | 김성한 |                         | Puttaswamy                              | Oxidative conversion of anilines to azobenzenes with alkaline chloramine-T  |
| 707 |      |                 | 하기룡 |                         | 김정현                                     | Effects of composition and layer thickness of a butyl acrylate/acrylic acid copolymer on the adhesion properties                      |
| 711 |      | ,,, 3           | 하기룡 |                         | Ajay Mandal                             | Synthesis and characterization of a new polymeric surfactant for chemical enhanced oil recovery                                       |
| 720 |      | 1               | 김대수 |                         | YumingZhou, FengxianQiu                 | Enhanced adsorption of fluoride from aqueous solutions by hierarchically structured Mg-Al LDHs/Al2O3 composites                       |
| 726 |      |                 | 정경열 |                         | 최주홍                                     | Charactristics of pressure drop during the pulse-jet cleaning of the ceramic filter at high temperature and high pressure             |

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| 735                |            | , 2,, 2<br>,,, 1<br>,,,, 1 | 박영권      | 목영선(제주대)<br>김도희(서울대)   | 목영선<br>(Invited Review Paper)          | Environmental plasma-catalysis for the energy-efficient treatment of volatile organic compounds  |
| 749                | ,, 1       |                            | 용기중      | 박윤국(홍익대)(self)   | László Almásy<br>(Rapid Communication) | Ultrasonic preparation of mesoporous silica using a pyridinium ionic liquid  |
| 755                |            |                            | 이경범      |  | 이의수                                    | Development of an optimal multifloor layout model for the generic liquefied natural gas liquefaction process                                 |
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| 775                |            | , 1,,, 1                   | 박중곤      |  | Sadegh Poozesh                         | New criteria for filament breakup in droplet-on-demand inkjet printing using volume of fluid (VOF) method                                    |
| 782                |            |                            | 김민찬      |  | 최항석                                    | A numerical study on the performance evaluation of ventilation systems for indoor radon reduction  |
| 795                |            |                            | 김민찬      |  | Davood Jalali-Vahid                    | Effects of uniform magnetic field on the interaction of side-by-side rising bubbles in a viscous liquid                                      |
| 806                |            | ,,, 1                      | 이관영      |  | 박명준                                    | Dehydration of D-xylose over SiO2-Al2O3 catalyst: Perspective on the pathways for condensed products   |
| 812                |            | , 1                        | 박은덕      |  | Mehdi Shirzad-Siboni                   | Application of Ni-doped ZnO rods for the degradation of an azo dye from aqueous solutions  |
| 823                |            |                            | 이관영      |  | 신채호                                    | Influence of phosphorous addition on Bi3Mo2Fe1 oxide catalysts for the oxidative dehydrogenation of 1-butene                                 |
| 831                |            |                            | 박은덕      |  | Xiaojing Meng                          | Conversion of methanol into light olefins over ZSM-11 catalyst in a circulating fluidized-bed unit   |
| 838                |            | 1,,, 3                     | 이관영      | 전종기(공주대)   | 박대원(부산대)                               | Selective oxidation of H2S to sulfur over CeO2-TiO2 catalyst   |
| 844                |            | 1                          | 신채호      | 이원규(강원대)   | 이원규                                    | Process conditions for complete decomposition of CHF3 in a dielectric barrier discharge reactor  |
| 851                |            | 2,, 1<br>,,, 3             | 염영순      | 박영권(서울시립대) 2   | 한규성                                    | Fuel characteristics of agropellets fabricated with rice straw and husk  |
| 858                |            | 1, 1<br>,,, 1<br>,,, 1     | 이재우      | 김일태(가천대)<br>최정욱(서울대)<br>김종학(연세대)<br>권용재(서울과학기술대)&<br>김종학(연세대) 공동교<br>신       | 김재광                                    | Organic di-radical rechargeable battery with an ionic liquid-based gel polymer electrolyte   |
| 862                |            |                            | 이재우      |  | YulongZhang,<br>ShengXue               | Evaluation of the susceptibility of coal to spontaneous combustion by a TG profile subtraction method  |
| 873                |            | ,,, 1                      | 염영순      |  | Xudong Li                              | Pretreatment of sweet sorghum bagasse by alkaline hydrogen peroxide for enhancing ethanol production   |
| 880                | ,, 1       | 2,, 1<br>,,, 1             | 이재우      | 한윤봉(전북대) 2<br>김도형(전남대)(self)   | 민병권                                    | Semi-transparent thin film solar cells by a solution process   |
| 885                |            |                            | 추광호      |  | 김용훈                                    | Stabilization of hydrogen peroxide using tartaric acids in Fenton and fenton-like oxidation  |
| 893                |            | 1                          | Sarker   |  | Farideh Nabizadeh<br>Chianeh           | Removal of ciprofloxacin from aqueous solution by a continuous flow electro-coagulation process  |
| 902                |            |                            | 추광호      |  | Niyaz Mohammad<br>Mahmoodi             | Synthesis of nanostructured adsorbent and dye adsorption modeling by an intelligent model for multicomponent systems                         |
| 914                |            |                            | 추광호      |  | Shimaa M. Abdel Moniem                 | Immobilization technologies for the management of hazardous industrial waste using granite waste (case study)                                |
| 922                |            |                            | 추광호      |  | Masoud Rahimi                          | Process modeling and optimization of Rhodamine B dye ozonation in a novel microreactor equipped with high frequency ultrasound wave          |
| 934                |            |                            | 박중곤      |  | Boominathan Meenatchi                  | Size-controlled synthesis of chalcogen and chalcogenide nanoparticles using protic ionic liquids with imidazolium cation                     |
| 945                | ,,, 1      |                            | 차형준      |  | 윤영상                                    | Adsorptive characteristics of the polyurethane-immobilized Corynebacterium glutamicum biosorbent for removal of Reactive Yellow 2 from ..... |
| 952                |            | ,,, 1                      | 김범수      |  | Wang Jing                              | The antimicrobial activity of as-prepared silver-loaded phosphate glasses and zirconium phosphate  |
| 958                |            | ,,, 2                      | 차형준      |  | 박정극                                    | Economical synthesis of a complex silicon fertilizer by unique technology using loess  |
| 964                |            | ,,, 1                      | 김범수      |  | Xinde Chen                             | Preparation and characterization of epoxidized microbial oil   |
| 972                |            |                            | 김범수      |  | 홍순호                                    | Engineering a chimeric malate two-component system by introducing a positive feedback loop in Escherichia coli                               |
| 976                |            | ,,, 1                      | 김종학      |  | Ruixin Wang                            | Adsorption properties of silica surface-grafted with a salicylhydroxamic acid-functionalized polymer toward lead ions                        |
| 986                |            |                            | 이병철      |  | 강정원                                    | Analysis of thermophysical property data of Hlx components for I2 crystallizer design in sulfur-iodine process to produce hydrogen           |
| 997                | ,, 1       | ,,, 1                      | 김종학      |  | Abdul Latif Ahmad                      | Optimization of PES/ZnO mixed matrix membrane preparation using response surface methodology for humic acid removal                          |
| 1008               |            |                            | 박윤국      |  | Jinsong Zhou                           | Regeneration mechanism of CeO2-TiO2 sorbents for elemental mercury capture from syngas   |

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| 1014 |     |           | 김종학 |  | Amira Abdelrasoul            | Prediction of power consumption and performance in ultrafiltration of simulated latex effluent using non-uniform pore size membranes                   |
| 1028 |     |           | 김종학 |  | Seyed Abbas Mousavi          | Effect of CO2-laser irradiation on properties and performance of thin-film composite polyamide reverse osmosis membrane                                |
| 1037 |     | 1         | 김종학 |  | Sayed Mohsen Hosseini        | Surface modification of cation exchange membranes by graft polymerization of PAA-co-PANI/MWCNTs nanoparticles  |
| 1047 |     |           | 박윤국 |  | 장재언                          | Chemical potential and solid-solid equilibrium of near-spherical Lennard-Jones dumbbell crystal  |
| 1059 |     | 1         | 박윤국 |  | 이창하                          | Combined operation of outlet streams swing with partial-feed in a simulated moving bed   |
| 1070 |     |           | 박종곤 |  | 조성민                          | Enhanced moisture-barrier property and flexibility of zirconium oxide/polymer hybrid structures  |
| 1075 | , 1 | 4, 1<br>1 | 김도형 | 정상철(순천대) 5<br>(self 1편 포함)<br>한정우(서울시립대)<br>김정구(아주대) | 정상철                          | Facile synthesis of bimetallic Ni-Cu nanoparticles using liquid phase plasma method  |
| 1080 |     | 1, 1      | 하기룡 |  | Yonghong Zhou,<br>Meng Zhang | Green plasticizers derived from soybean oil for poly(vinyl chloride) as a renewable resource material  |
| 1088 |     |           | 이대연 |  | Zhenwu Kong                  | Constructing polyurethane foams of strong mechanical property and thermostability by two novel environment friendly bio-based polyols                  |
| 1095 |     | 1         | 김대수 |  | 하기룡                          | Multiwalled carbon nanotubes and fluoroelastomer antistatic nanocomposite for automotive fuel system components  |
| 1104 |     |           | 이대연 |  | Huilang Zhang                | Rheology, mechanical properties and crystallization behavior of glycidyl methacrylate grafted poly(ethylene octane) toughened poly(lactic acid) blends |
| 1115 |     |           | 정경열 |  | Suresh Bandari               | Preparation and characterization of docetaxel self-nanoemulsifying powders (SNEPs): A strategy for improved oral delivery                              |

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|                    | KJChE      | Others                  |          |  |  |   |
| 1125               |            | “ 1<br>,,, 2            | 김범수      | 서정현(영남대)<br>이창수(충남대)   | 차형준<br>(Invited Review Paper)                | Recent developments and applications of bioinspired silicification  |
| 1134               |            | , 1                     | 이경범      |  | Norollah Kasiri                              | Matrix based method for synthesis of main intensified and integrated distillation sequences   |
| 1153               |            |                         | 최수형      |  | 박명준  | Modeling and analysis of circulation variables of continuous sorbent loop cycling for CO2 capture   |
| 1159               |            |                         | 김민찬      |  | 최항석  | Heat transfer of bio-oil in a direct contact heat exchanger during condensation   |
| 1170               |            |                         | 김민찬      |  | Ning-De Jin                                  | Ultrasonic method for measuring gas holdup of gas-liquid bubbly flow in a small-diameter pipe   |
| 1181               |            | ,,, 1                   | 김민찬      |  | Gomadurai Chinnasamy                         | Development and performance analysis of a novel agitated vessel   |
| 1186               |            |                         | 김태진      |  | 김동현  | An improved linear formula for cyclic adsorption, diffusion and reaction in a catalyst  |
| 1192               |            | 1,, 1                   | 김태진      | 이재우(KAIST)   | Aligholi Niaei                               | Catalytic removal of CO and NOx using sol-gel synthesized La0.5Co0.5O3 (B=Cr, Mn and Cu) and LaMnCo1-xO3 nano-perovskites                     |
| 1200               |            |                         | 이관영      |  | Pengyong Hoo                                 | Monolaurin yield optimization in selective esterification of glycerol with lauric acid over post impregnated HPW/SBA-15 catalyst              |
| 1211               |            | 1                       | 신채호      | 정현욱&전병진(고려대) 공동교신  | Gholam Reza Molaeimanesh                     | A pore-scale model for microfibrillar ammonia cracking microreactors via lattice Boltzmann method   |
| 1220               |            | 1,, 1<br>,,, 1<br>,,, 1 | 신채호      |  | Farzaneh Vahabzadeh                          | Production of a biodiesel additive in a stirred basket reactor using immobilized lipase: Kinetic and mass transfer analysis                   |
| 1232               |            | 1                       | 박은덕      | 이창수(충남대)&정영민(군산대) 공동교신   | Lei Hu                                       | Efficient hydrolysis of cellulose over a magnetic lignin-derived solid acid catalyst in 1-butyl-3-methylimidazolium chloride                  |
| 1239               |            |                         | 신채호      |  | XiaojingMeng, ChunyiLi                       | Efficient production of propylene and gasoline from methanol in multi-regime riser  |
| 1247               | , 1        | , 1,, 1<br>,,, 1        | 염영순      |  | Mausumi Mukhopadhyay                         | Lipase-catalyzed glycerolysis of olive oil in organic solvent medium: Optimization using response surface methodology                         |
| 1255               |            |                         | 이재우      |  | Heidy Visbal                                 | Surface analysis of three aluminum foils and relation to hydrogen generation capability   |
| 1261               |            | ,,, 1                   | 이재우      |  | Yukihiko Matsumura                           | Inhibition of char deposition using a particle bed in heating section of supercritical water gasification                                     |
| 1267               |            |                         | 추광호      |  | 최항석  | Utilization of automobile shredder residue (ASR) as a reducing agent for the recovery of black copper   |
| 1278               |            | 1,,, 1                  | 추광호      |  | Ahad Ghaemi                                  | Experimental investigation of CO2 capture using sodium hydroxide particles in a fluidized bed   |
| 1286               |            | , 1                     | 박영권      |  | Elhameh Narimani                             | Using response surface methodology to optimize ultrasound-assisted oxidative desulfurization  |
| 1296               |            | 1                       | 추광호      |  | Seyed Ali Jafari                             | Continuous cadmium removal from aqueous solutions by seaweed in a packed-bed column under consecutive sorption-desorption cycles              |
| 1305               |            |                         | 박영권      |  | 최창식  | Effect of efficient supply of pure O2 concentrated by PSA-type O2 separator on improvement of indoor air quality                              |
| 1311               |            |                         | 박영권      |  | 최창식  | Performance test of PSA-type O2 separator for efficient O2 supply to room ventilation system combined with CO2 adsorption module              |
| 1318               |            |                         | 김범수      |  | Satya Eswari J.                              | Artificial neural networks as classification and diagnostic tools for lymph node-negative breast cancers                                      |
| 1325               |            |                         | 차형준      |  | Madalina Georgiana Albu, Laura-Cristina Rusu | The effect of lavandula essential oils on release of niflumic acid from collagen hydrolysates   |
| 1331               |            | “ 1                     | 김범수      | 서정현(영남대)   | 서정현  | Noninvasive monitoring of environmental toxicity through green fluorescent protein expressing Escherichia coli                                |
| 1337               |            |                         | 김진련      |  | WanJun Li                                    | Preparation of γ-alumina nanoparticle modified polyacrylamide composite and study on its solid phase extraction of Sunset Yellow              |
| 1345               |            |                         | 김범수      |  | 강성필  | Investigation of xenon and natural gas hydrate as a storage medium to maintain the enzymatic activity of the model proteins                   |
| 1352               | 1          | “ 3,,, 2<br>,,, 1       | 이병철      |  | Zahra Alaei                                  | Optimization of cationic dye adsorption on activated spent tea: Equilibrium, kinetics, thermodynamic and artificial neural network modeling   |
| 1362               |            |                         | 이병철      |  | Yu-HsiangWeng, Hwa-JouWei                    | Pilot-scale study on dehydration of synthetic and lignocellulosic ethanol by NaA membrane   |
| 1369               |            | “ 1                     | 박윤국      |  | Jianbin Zhang                                | Characterization of high-alumina coal fly ash based silicate material and its adsorption performance to CO2                                   |
| 1380               |            |                         | 이병철      |  | Farhad Heidary, Ali Reza Khodabakhshi        | Novel ion-exchange nanocomposite membrane containing in-situ formed FeOOH nanoparticles: Synthesis, characterization and transport properties |
| 1391               |            | , 1                     | 김종학      | 배윤상(연세대)   | Ehsan Javadi Shokroo                         | Comparative study of zeolite 5A and zeolite 13X in air separation by pressure swing adsorption  |
| 1402               |            | 1,,, 1                  | 변헌수      |  | Milad Asgarpour Khansary                     | Vapor pressure and Flory-Huggins interaction parameters in binary polymeric solutions   |
| 1408               | ,,, 1      | ,,, 1                   | 변헌수      |  | Ali Ghanadzadeh Gilani                       | Liquid-liquid equilibrium data in aqueous solutions of propionic and butyric acids with 1-heptanol at T=(298.15, 308.15, and 318.15) K        |
| 1416               |            |                         | 박윤국      |  | Shangru Zhai, Ruifeng Yang                   | Removal of Cr(VI) from aqueous solution by rice husk derived magnetic sorbents  |

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| 1425 |               |                           | 박윤국 |  | 서용원                       | Accurate measurement of phase equilibria and dissociation enthalpies of HFC-134a hydrates in the presence of NaCl for potential application..... |
| 1431 |               | 2, 2,, 1<br>,,, 2         | 김도형 | 이도창(KAIST)   | JohnJudithVijaya          | A comparative study of the effects of CuO, NiO, ZrO2 and CeO2 coupling on the photocatalytic activity and characteristics of ZnO                 |
| 1441 |               |                           | 김지현 |  | 유태환                       | Characterization of lithium tetrafluoroborate and N-methylacetamide complex as electric and ionic conductors                                     |
| 1447 | 1             | , 1,, 2<br>,,, 1<br>,,, 1 | 용기중 | 김대형(서울대)(self)<br>한윤봉(전북대)<br>권용재(서울과학기술대)&<br>김종학(연세대)<br>공동교신        | 강미숙                       | Electrochemical performance of three shaped ZnO nanoparticles prepared in LiOH, NaOH and KOH alkaline solutions as anodic materials .....        |
| 1456 |               | , 1                       | 용기중 | 김우재(가천대)   | Hassane Oudadesse         | Novel alkali borosilicate glasses: Preparation, structural investigation and thermal study   |
| 1462 |               | 2, 1,, 1                  | 김대수 |  | Abdolreza Moghadassi      | Preparation of mixed matrix PES-based nanofiltration membrane filled with PANI-co-MWCNT composite nanoparticles                                  |
| 1472 |               |                           | 이대연 |  | ShengbinHe,<br>XiaopingXu | Filtering absorption and visual detection of methylene blue by nitrated cellulose acetate membrane   |
| 1480 |               |                           | 김성한 |  | Gurumurthy Hegde          | Photoisomerization behavior of photochromic amide-based azobenzene dyes exhibiting H-bonding effect: Synthesis and characterization              |
| 1489 | 1             | 1,,,, 1                   | 정경열 | 김대형(서울대)(self)<br>한정우(서울시립대)   | Vaithilingam Selvaraj     | Pt and Pt-Sn nanoparticles decorated conductive polymer-biowaste ash composites for direct methanol fuel cell                                    |
| 1500 | 1, 2<br>,,, 1 | 1,, 1<br>,,, 1            | 정경열 | 김대형(서울대)(self)<br>김일태(가천대)<br>정상철(순천대)(self)<br>황동수&이진우(POSTECH)(self) | 유태경                       | A facile synthetic route for Co3O4 nanoparticle/porous carbon composite as an efficient anode material for lithium-ion batteries                 |



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| 1505               |            | 2,, 1<br>,,, 1<br>,,, 3     | 엄영순      | 박영권(서울시립대) 4<br>김범수(충북대) 2<br>김승도(한림대)                                      | 김범수<br>(Invited Review Paper)           | Lignocellulosic and marine biomass as resource for production of polyhydroxyalkanoates  |
| 1514               |            |                             | 박은덕      |   | Jayeeta Chattopadhyay<br>(Review Paper) | Metal hollow sphere electrocatalysts  |
| 1530               |            | ,, 2<br>,,, 1               | 김범수      | 박경문(홍익대)  | 김용환<br>(Rapid Communication)            | Alkaliphilic lysine decarboxylases for effective synthesis of cadaverine from L-lysine  |
| 1534               |            | 1, 1                        | 김민찬      | 이기봉(고려대)&외국<br>인 공동교신   | Masoud Rahimi                           | Heat transfer and fluid flow modeling in serpentine microtubes using adaptive neuro-fuzzy approach  |
| 1551               |            |                             | 김태진      |   | Sami Ullah Rather                       | Trimetallic catalyst synthesized multi-walled carbon nanotubes and their application for hydrogen storage   |
| 1557               |            | 1,, 1<br>,,, 2              | 김태진      |   | Dong Wan, Wenbing Li                    | Heterogeneous Fenton degradation of Orange II by immobilization of Fe3O4 nanoparticles onto Al-Fe pillared bentonite  |
| 1565               |            | ,,, 1<br>,,, 1              | 박은덕      | 이지우&한정우(POST<br>ECH) 공동교신<br>배종욱(성균관대)                                      | 배종욱                                     | Fischer-Tropsch synthesis on the cobalt impregnated catalyst using carbon-coated Ni/SiO2  |
| 1571               |            |                             | 김태진      |   | Sattar Ghader                           | Increasing ethylene production as a high value hydrocarbon in Fischer-Tropsch (FT) reactor: A concept reactor for combining FT with oxidative coupling of methane |
| 1590               |            | 2, 1,, 2<br>,,, 2<br>,,, 10 | 신채호      |   | S. Arull Antony,<br>A. Manikandan       | Fundamental study of LaMgxCr1-xO3-δ perovskites nano-photocatalysts: Sol-gel synthesis, characterization and humidity sensing                                     |
| 1599               |            | , 1,,, 1                    | 박은덕      | 박은덕(아주대)  | Fabing Su                               | V-promoted Ni/Al2O3 catalyst for synthetic natural gas (SNG) production: Catalyst preparation methodologies   |
| 1606               |            |                             | 이재우      |   | 이충근                                     | Effect of temperature on the electrochemical oxidation of ash free coal and carbon in a direct carbon fuel cell   |
| 1612               |            |                             | 이재우      |   | 송주현                                     | Flash spray characteristics of a coal-liquid carbon dioxide slurry  |
| 1620               |            | , 2                         | 추광호      |   | 최호석, Vladimir V. Rybkin                 | Phenol decomposition in water cathode of DC atmospheric pressure discharge in air   |
| 1629               |            | 1                           | 추광호      |   | Mehdi Irannajad                         | Kinetic, thermodynamic and equilibrium studies on the removal of copper ions from aqueous solutions by natural and modified clinoptilolites                       |
| 1640               |            | 1                           | 추광호      | 김창구(아주대)  | Chunyue Cui                             | Synthesis of magnetic Co1-xNixFe2O4/carbon nanotubes with controlled microstructure for adsorption of pentachlorophenol   |
| 1647               |            |                             | 박영권      |   | 오성근                                     | Effects of surfactants on the preparation of TiO2 nanoparticles in microwave-assisted sol-gel process and their photocatalytic activity                           |
| 1653               |            | , 1                         | 김진련      |   | Ke-quan Chen                            | Plasma treatment of multi-walled carbon nanotubes for lipase immobilization   |
| 1659               |            |                             | 김범수      |   | Hafed Elfeki                            | Antibacterial and in vivo reactivity of bioactive glass and poly(vinyl alcohol) composites prepared by melting and sol-gel techniques                             |
| 1669               |            | ,, 2                        | 김범수      |   | 김범수                                     | Production of polyhydroxyalkanoates by batch and fed-batch cultivations of Bacillus megaterium from acid-treated red algae  |
| 1674               |            |                             | 김종학      |   | Zhaoping Zhong                          | Intelligent identification of the flow regimes of two-component particles in a fluidized bed with the optimized fuzzy c-means clustering algorithm                |
| 1681               |            | ,,, 1<br>,,, 1              | 박윤국      |   | Paramita Bhattacharjee                  | Mathematical modeling of supercritical carbon dioxide extraction of methyl eugenol from tuberose flowers  |
| 1692               |            |                             | 변헌수      |   | Hongya Yue                              | Densities and surface tensions of binary mixtures of biodiesel, diesel, and n-butanol   |
| 1698               |            |                             | 변헌수      |   | William Eugene Acree Jr.                | Calculation of solubility of N-ethylcarbazole in ethanol + petroleum ether mixtures at various temperatures   |
| 1706               |            |                             | 변헌수      |   | 박영준, 이훈                                 | Tuning magnetism via selective injection into ice-like clathrate hydrates   |
| 1712               |            |                             | 변헌수      |   | 서유태, 이훈                                 | One-dimensional approaches for methane hydrate production by CO2/N2 gas mixture in horizontal and vertical column reactor   |
| 1720               |            |                             | 용기중      |   | KunalPal,<br>ArfatAnis                  | Effect of sorbitan monostearate concentration on the thermal, mechanical and drug release properties of oleogels  |
| 1728               |            |                             | 용기중      |   | 신규철, 이훈                                 | Structural identification of DCIO4 clathrate hydrates: Neutron powder diffraction analysis  |
| 1736               |            |                             | 김대수      |   | Manawwer Alam                           | Anticorrosive properties of olive oil polyurethanamide/ZnO biocomposite coatings  |
| 1743               |            | 1,, 1<br>,,, 1<br>,,, 1     | 김대수      |   | 김영복                                     | Superhydrophobic, flexible and gas-permeable membrane prepared by a simple one-step vapor deposition  |
| 1749               |            | ,, 2<br>,,, 3               | 정경열      |   | Tsutomu Uchida                          | Generation of micro- and nano-bubbles in water by dissociation of gas hydrates  |

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| 1757               |            | , 1,, 1<br>,,, 2 | 김민찬      | 이대연(University of Pennsylvania)   | 이대연<br>(Invited Review Paper)     | Recent developments in scale-up of microfluidic emulsion generation via parallelization  |
| 1767               | ,, 1       | ,,, 1            | 이재우      | 류창국(성균관대)(self)   | 전충환(Review Paper)                 | Dynamic modeling and simulation of reaction, slag behavior, and heat transfer to water-cooling wall of shell entrained-flow gasifier                           |
| 1777               |            | 1, 1             | 박은덕      |   | 한종인, 윤형철<br>(Rapid Communication) | Electrochemical synthesis of ammonia from water and nitrogen catalyzed by nano-Fe2O3 and CoFe2O4 suspended in a molten LiCl-KCl-CsCl electrolyte               |
| 1781               | , 1        | ,, 1             | 박은덕      | 신채호(충북대)(self)<br>김도희(서울대)  | 노현석                               | Preferential CO oxidation over supported Pt catalysts  |
| 1788               |            | , 2,, 1<br>,,, 1 | 박은덕      |   | Rajesh Jagannath Tayade           | Facile synthesis of TiO2/ZnFe2O4 nanocomposite by sol-gel auto combustion method for superior visible light photocatalytic efficiency                          |
| 1799               |            | , 2,,, 1         | 신채호      | 김도희(서울대)  | 이재성                               | Enhanced activity of carbon-supported PdCo electrocatalysts toward electrooxidation of ethanol in alkaline electrolytes  |
| 1805               |            | ,,, 1            | 엄영순      |   | 박종문, 하정협                          | Effects of the ratio of carbon to nitrogen concentration on lipid production by bacterial consortium of sewage sludge using food wastewater as a carbon source |
| 1813               |            | ,, 1             | 이재우      |   | 강성필                               | Influence of polymeric additives on paraffin wax crystallization in model oils   |
| 1823               |            | ,,, 1<br>,,, 1   | 박영권      |   | Hongmin Yang                      | Catalytic oxidation and capture of elemental mercury from simulated flue gas using Mn-doped titanium dioxide   |
| 1831               |            |                  | 박영권      |   | 설용건                               | The particle size effect of N-doped mesoporous carbons as oxygen reduction reaction catalysts for PEMFC  |
| 1837               |            | , 1              | 추광호      |   | Jiang Wu, Weiguo Zhou             | CeO2-La2O3/ZSM-5 sorbents for high-temperature H2S removal   |
| 1846               |            | ,,, 1            | 박영권      |   | Ying Yan                          | Catalytic activity of copper-ceria catalysts supported on different zeolites for CO oxidation  |
| 1855               |            |                  | 추광호      |   | 김영훈                               | Electrochemical degradation of organic dyes with a porous gold electrode   |
| 1860               |            | ,, 1<br>,,, 1    | 김범수      |   | Pradip B. Dhamole                 | Extraction of p-coumaric acid from agricultural residues and separation using 'sugaring out'   |
| 1865               |            |                  | 김진련      |   | 박두현                               | Bio-electrochemical conversion of atmospheric N2 to ammonium using free-living diazotrophs   |
| 1872               |            |                  | 차형준      |   | 조훈                                | Antihyperglycemic and antioxidant activities of polysaccharide produced from Pleurotus ferulae in streptozotocin-induced diabetic rats                         |
| 1883               |            | ,,, 1            | 이병철      |   | Jianbin Zhang                     | A novel CCU approach of CO2 by the system 1,2-ethylenediamine+1,2-ethylene glycol  |
| 1889               |            |                  | 이병철      |   | 문성용                               | Optimization study of a batch chromatographic process based on Amberchrom-CG161C adsorbent for separation of valine from a ternary amino acid mixture          |
| 1897               |            |                  | 변헌수      |   | 이흔                                | Thermodynamic and spectroscopic identification of aldehyde hydrates  |
| 1903               |            | ,,, 1<br>,,, 1   | 변헌수      | 광상규(UNIST)&<br>박영준(GIST) 공동교신<br>이재우(KAIST)&신규철(경북대) 공동교신                   | 이흔                                | Experimental verifications of Mpemba-like behaviors of clathrate hydrates  |
| 1908               |            | ,, 1             | 박윤국      |   | 이두환, 우희철                          | Deep desulfurization of fuel gas by adsorption on Cu-impregnated activated carbons in practical conditions   |
| 1917               |            | ,, 1             | 박윤국      |   | Saneshiro Muromachi               | Bulk phase behavior of tetra-n-butylammonium bromide hydrates formed with carbon dioxide or methane gas  |
| 1922               |            |                  | 박윤국      |   | Rajnish Kumar                     | Crystallization kinetics for carbon dioxide gas hydrate in fixed bed and stirred tank reactor  |
| 1931               |            | ,, 1             | 김도형      |   | Yuming Zhou                       | Ultrasonic/microwave synergistic synthesis of well-dispersed hierarchical zeolite Y with improved alkylation catalytic activity                                |
| 1938               |            |                  | 김도형      |   | 박윤국                               | Effects of additives on the mechanical and thermal properties of epoxy-based nanocomposites produced using sonication  |
| 1942               |            |                  | 용기중      |   | Ryo Ohmura                        | Crystal growth of ionic semicathrate hydrate formed at interface between CO2+N2 gas mixture and tetrabutylammonium bromide aqueous solution                    |
| 1948               |            |                  | 김대수      |   | AL. Kavitha                       | Electrochemical study of Magnetite-CH composite carbon paste modified electrode  |
| 1954               |            |                  | 하기룡      |   | Jamal Alaie                       | Colloidal dispersion gels based on sulfonated polyacrylamide and chromium triacetate for harsh-environment   |
| 1964               | ,,, 1      |                  | 이대연      |   | Mohammad Jalal Zohuriaan-Mehr     | HMF synthesis in aqueous and organic media under ultrasonication, microwave irradiation and conventional heating   |
| 1971               | 1          |                  | 정경열      | 김대형(서울대)(self)  | 조성민                               | Extremely flexible organic-inorganic moisture barriers   |

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|                    | KJChE          | Others                      |          |  |  |  |
| 1977               |                | ,, 1,,, 2<br>,,, 1          | 변헌수      |  | 이혼(Invited Review Paper)   | Phase behavior of gas hydrates in nanoporous materials: Review   |
| 1989               |                | 3, 1,,, 3<br>,,, 3<br>,,, 3 | 김태진      | 이동현(중앙대)   | Hemraj Mahipati Yadav,<br>Shivaji Hariba Pawar<br>(Review Paper) | Developments in photocatalytic antibacterial activity of nano TiO2: A review   |
| 1999               | ,,, 1          | ,,, 1                       | 최수형      | 문일(연세대)(self)<br>김정환(생기연)  | 문일   | Kriging models for forecasting crude unit overhead corrosion   |
| 2007               |                | , 1                         | 안경현      |  | Liangchao Li   | Numerical simulation of flow field characteristics in a gas-liquid-solid agitated tank   |
| 2018               |                |                             | 이관영      |  | Mohammad Ebrahim Olya  | Highly efficient Al-doped ZnO:Ag catalyst for RB19 photocatalytic degradation: Microwave-assisted synthesis and characterization   |
| 2027               |                | , 2,, 1                     | 김태진      | 이도창(KAIST)   | Mohamed Trari  | Ni2+ reduction under solar irradiation over CuFe2O4/TiO2 catalysts   |
| 2034               |                | , 1,,, 1                    | 김태진      |  | Shaoping Guo,<br>Liangfu Zhao                                    | The catalytic performance of methylation of naphthalene with methanol over SAPO-11 zeolites synthesized with different Si content  |
| 2042               |                | , 1,, 1                     | 엄영순      |  | Mehdi Ardjmand   | Prediction of biodiesel properties and its characterization using fatty acid profiles  |
| 2050               |                | ,, 3,,, 1                   | 이재우      |  | Praveen Linga  | Mechanism of methane hydrate formation in the presence of hollow silica  |
| 2063               |                | ,, 2                        | 엄영순      |  | Xiaoxiang Han,<br>Shang-Bin Liu                                  | Transesterification of soybean oil to biodiesel by tin-based Brønsted-Lewis acidic ionic liquid catalysts  |
| 2073               |                | , 1,,, 1                    | 임광희      |  | Weihua Zou, Lie Liu  | Investigation of synergistic adsorption between methyl orange and Cd(II) from binary mixtures on magnesium hydroxide modified clinoptilolite   |
| 2084               |                |                             | 임광희      |  | 나병기  | Effects of oxidized biodiesel on formation of particulate matter and NOx from diesel engine  |
| 2090               |                | ,, 1                        | 추광호      |  | Mali Hunsom  | Treatment of biodiesel wastewater by indirect electrooxidation: Effect of additives and process kinetics   |
| 2097               |                | ,,, 1                       | 박영권      | 전종기(공주대)   | Xin Zhang  | Coupling conversion of methanol and 1-butylene to propylene on HZSM-5 molecular sieve catalysts prepared by different methods  |
| 2107               |                | ,, 1                        | 박영권      |  | Suja Purushothaman<br>Devipriya                                  | Recovery and reuse of TiO2 photocatalyst from aqueous suspension using plant based coagulant - A green approach  |
| 2114               |                |                             | 임광희      |  | Nilanjana Das  | Adsorptive removal of nickel(II) ions from aqueous environments using gum based and clay based polyaniline/chitosan nanobiocomposite beads and microspheres: Equilibrium, kinetic, thermodynamics and ex-situ studies  |
| 2127               |                |                             | 김범수      |  | 김은기  | Tuning surface-active properties of bio-surfactant sophorolipids by varying fatty-acid chain lengths   |
| 2134               |                | 3, 1<br>,,, 1<br>,,, 3      | 김범수      | 박영권(서울시립대) 3   | Houfang Lu   | Effects of ball milling on structural changes and hydrolysis of lignocellulosic biomass in liquid hot-water compressed carbon dioxide  |
| 2142               |                |                             | 이병철      |  | 조희찬  | Coal and solvent properties and their correlation with extraction yield under mild conditions  |
| 2160               |                | 2,,, 1                      | 김종학      |  | Abolfazl Dastbaz   | Vacuum enhanced membrane distillation for trace contaminant removal of heavy metals from water by electrospun PVDF/TiO2 hybrid membranes   |
| 2169               |                | ,,, 1<br>,,, 1              | 김종학      |  | Jinrong Liu  | Computational fluid dynamics simulation and particle image velocimetry experimentation of hydrodynamic performance of flat-sheet membrane bioreactor equipped with micro-channel turbulence promoters with micro-pores |
| 2179               | 1              |                             | 이병철      | 박윤국(홍익대)(self)   | 박상진  | Liquid-liquid equilibrium data for water-ethanol-entrainer ternary system with entrainers: Cyclohexane, n-pentane, DEE (diethyl ether), DIPE (di-isopropyl ether), ETBE (ethyl tert-butyl ether)                       |
| 2186               |                | 1,,, 1                      | 변헌수      | 김종학(연세대)&김정환(화학연) 공동교신<br>김종학(연세대)   | 이종원  | 13C NMR analysis of C2H6 + C2H4 + THF mixed hydrate for an application to separation of C2H4 and C2H6  |
| 2191               |                | ,, 1                        | 변헌수      | 박병홍(한국교통대)   | 박병홍  | Volumetric properties of binary mixtures of 1-butyl-3-methylimidazolium halides with water, methanol or ethanol at 293.15 to 318.15 K  |
| 2205               |                | , 1,,, 1                    | 박윤국      |  | Alireza Keshkar  | Continuous biosorption of U(VI) and Fe(II) using Cystoseira indica biomass packed bed column: Breakthrough curves studies in single, binary and multi-component systems  |
| 2215               |                | 2,,, 1<br>,,, 1             | 김도형      | 박영권(서울시립대)   | Guoting Li   | Effect of pyrolytic temperature on the adsorptive removal of p-benzoquinone, tetracycline, and polyvinyl alcohol by the biochars from sugarcane bagasse  |
| 2222               |                | ,,, 1<br>,,, 1              | 용기중      |  | Furhan Iqbal   | Biocompatibility of cobalt iron oxide magnetic nanoparticles in male rabbits   |
| 2228               | ,,, 1<br>,,, 1 | 1, 1<br>,,, 1<br>,,, 1      | 용기중      | 오성훈(중앙대)<br>김종학(연세대)<br>김정환(화학연)<br>전남대<br>노종호(연세대)<br>김종학(연세대)<br>박정복(건국대) 공동교신<br>오성훈(중앙대)&김정환(아주대) 공동교신 | 김일   | Hierarchically nanostructured carbon-supported manganese oxide for high-performance pseudo-capacitors  |
| 2235               |                | ,,, 1                       | 이대연      |  | 전민구  | Electrolytic reduction rate of porous UO2 pellets  |
| 2240               |                | ,, 2                        | 정경열      |  | Hua-wei Jiang  | Detection of gas-solid flow faults of a circulating fluidized bed using pressure fluctuations in wind caps   |

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|                    | KJChE      | Others                     |          |  |  |  |
| 2253               |            | 1, 2,, 1<br>,,, 1<br>,,, 2 | 박영권      | 한정우(서울시립대)<br>김동표(POSTECH)<br>이창수(충남대)                                       | 김동표<br>(Invited Review Paper)              | Recent advances for serial processes of hazardous chemicals in fully integrated microfluidic systems   |
| 2268               |            | 1,,, 2<br>,,, 2            | 임광희      | 박영권(서울시립대)   | 최항석(Review Paper)                          | Influence of process conditions on product yield of waste tyre pyrolysis- A review   |
| 2287               |            | 1                          | 김대수      | 이도창(KAIST)   | 차국현, Jeffrey Pyun<br>(Rapid Communication) | Arm length dependency of Pt-decorated CdSe tetrapods on the performance of photocatalytic hydrogen generation  |
| 2291               |            |                            | 최수형      |  | ShuJiao Tong                               | Study on risk assessment of chemical process based on an advanced layers of protection analysis method   |
| 2298               |            | 1                          | 안경현      | 정현욱&전병진(고려대) 공동교신  | 구상균  | Large-scale calculation of hydrodynamic transport properties for random suspensions of hard-sphere particles   |
| 2308               |            | ,, 1                       | 김태진      |  | 이건상  | Simulation-based optimization of gas condensate wells to mitigate the heavy hydrocarbon condensation through supercritical CO2 injection   |
| 2319               |            | ,, 1                       | 박은덕      |  | Mohammad Reza Khosravi-Nikou               | A selective catalyst for methanol conversion into light olefin with a high propylene to ethylene ratio   |
| 2325               |            | 1, 1<br>,,, 1              | 신채호      | 김도형(전남대)<br>유태경&박범준(경희대) 공동교신  | 박정용  | Photocatalytic activity of metal-decorated SiO2@TiO2 hybrid photocatalysts under water splitting   |
| 2330               |            | ,,, 1                      | 엄영순      |  | Wei Chen                                   | Chemical kinetics of bean straw biofuel pyrolysis using maximum volatile release method  |
| 2337               |            |                            | 엄영순      |  | 노경호  | Determination of deep eutectic solvents as eco-friendly catalysts for biodiesel esterification from an alcohol-palmitic acid mixture   |
| 2342               |            | ,, 1                       | 엄영순      |  | MaríaBelén García-Jarana                   | Use of supercritical methanol/carbon dioxide mixtures for biodiesel production   |
| 2350               | ,, 1       | 3, 2,, 2<br>,,, 1<br>,,, 3 | 엄영순      | 박영권(서울시립대) 8<br>김승도(한림대)   | 김승도  | Pyrolysis kinetics and product properties of softwoods, hardwoods, and the nut shell of softwood   |
| 2359               |            |                            | 추광호      |  | Yingwu Yin                                 | Hydrogen sulfide removal by copper sulfate circulation method  |
| 2366               |            | ,, 1                       | 박영권      |  | Abdelkader Hellal                          | An eco-friendly procedure for the efficient synthesis of diethyl α-aminophosphonates in aqueous media using natural acid as a catalyst   |
| 2374               |            | 1,,, 1                     | 추광호      | 백기태(전북대)   | Ratnakaram Venkata Nadh                    | Kinetic, thermodynamic and equilibrium studies on removal of hexavalent chromium from aqueous solutions using agro-waste biomaterials, casuarina equisetifolia L. and sorghum bicolor                                |
| 2384               |            | ,, 1,,, 1                  | 추광호      |  | Mohsen Moussavi                            | Chelate-modified fenton treatment of sulfidic spent caustic  |
| 2392               |            | ,,, 1                      | 박영권      | 전기준(인하대)   | 서정원  | Enhancement of photocatalytic disinfection of surface modified rutile TiO2 nanocatalyst  |
| 2396               |            | 1                          | 김진련      |  | Ambarish Sharan Vidyarthi                  | Enhancement of Chlorella vulgaris cell density: Shake flask and bench-top photobioreactor studies to identify and control limiting factors   |
| 2406               |            |                            | 김진련      |  | 최유성  | Recombinant production and biochemical characterization of a hypothetical acidic shell matrix protein in Escherichia coli for the preparation of protein-based CaCO3 biominerals                                     |
| 2411               |            |                            | 박윤국      |  | 김명진  | Optimal conditions for recovering boron from seawater using boron selective resins   |
| 2418               |            | ,,, 1                      | 박윤국      |  | 박균영  | Separation of triethoxysilane from tetraethoxysilane by batch distillation in a packed column  |
| 2426               |            |                            | 이병철      |  | Farzaneh Feyzi                             | Four phase hydrate equilibria of methane and carbon dioxide with heavy hydrate former compounds: Experimental measurements and thermodynamic modeling  |
| 2439               |            |                            | 김종학      |  | Ahmad Akbari                               | Sulfonation and mixing with TiO2 nanoparticles as two simultaneous solutions for reducing fouling of polysulfone loose nanofiltration membrane   |
| 2453               | ,, 1       |                            | 김종학      |  | Rizhi Chen                                 | Efficient recovery of ultrafine catalysts from oil/water/solid three-phase system by ceramic microfiltration membrane  |
| 2460               |            |                            | 변현수      |  | Jun Wang                                   | Density, viscosity, refraction index and excess properties of binary mixtures of 1-(1-methylpiperidinium-1-yl) pentane-(1-pyridinium) bis(trifluoromethane) sulfonamide with acetonitrile at T= (293.15 to 323.15) K |
| 2469               |            | , 1                        | 용기중      | 김우재(가천대)   | 하기룡  | Spectroscopic analysis of methacrylate groups introduced on silica particle surfaces by the aza-Michael addition reaction  |
| 2478               |            |                            | 이대연      |  | Ting Qiu                                   | Reaction kinetics for synthesis of isopropyl myristate catalyzed by sulfated titania   |
| 2486               |            | ,, 1                       | 김대수      |  | 박진호  | Formation and characterization of CuInSe2 thin films from binary CuSe and In2Se3 nanocrystal-ink spray   |
| 2492               |            | , 1,, 2<br>,,, 1<br>,,, 1  | 정경열      |  | SalahMohamed El-Bahy                       | Synthesis and characterization of a new iminodiacetate chelating resin for removal of toxic heavy metal ions from aqueous solution by batch and fixed bed column methods   |
| 2502               |            | ,, 1<br>,,, 1              | 정경열      |  | Syed Shatir Asghrar Syed-Hassan            | Optimization of the preparation of activated carbon from palm kernel shell for methane adsorption using Taguchi orthogonal array design  |

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|                    | KJChE          | Others                 |          |  |   |  |
| 2513               |                | , 1,,, 1               | 이경범      | 김영한(동아대)<br>이종민(서울대)   | 김영한<br>(Invited Review Paper)               | Design and control of energy-efficient distillation columns  |
| 2522               |                | 1,,, 1                 | 김민찬      |  | Mehrdad Mozaffarian                         | Viscosity and rheological properties of ethylene glycol+water+Fe3O4 nanofluids at various temperatures: Experimental and thermodynamics modeling                           |
| 2530               |                | ,,, 1                  | 김태진      |  | Waqas Ahmad                                 | Desulfurization of liquid fuels by air assisted peracid oxidation system in the presence of Fe-ZSM-5 catalyst  |
| 2538               |                |                        | 신채호      |  | Sepehr Sadighi                              | A two-dimensional discrete lumped model for a trickle-bed vacuum gas oil hydrocracking reactor   |
| 2547               |                | , 1,,, 1<br>,,, 1      | 박은덕      | 김도희(서울대) 3   | 김도희   | CeO2-TiO2 catalyst prepared by physical mixing for NH3 selective catalytic reduction: Evidence about the migration of sulfates from TiO2 to CeO2 via simple calcination    |
| 2555               |                | 1,,, 2<br>,,, 1        | 신채호      |  | Mohammad Haghighi                           | C2H6/CO2 oxidative dehydrogenation (ODH) reaction on nanostructured CrAPSO-34 catalyst: One-pot hydrothermal vs. conventional hydrothermal/impregnation catalyst synthesis |
| 2567               |                | 1                      | 이재우      | 이시훈(전북대)   | Abdul Waheed Bhutto,<br>Humair Ahmed Baloch | Parametric study of pyrolysis and steam gasification of rice straw in presence of K2CO3  |
| 2575               |                |                        | 엄영순      |  | Zhongming Wang                              | Optimization of algal lipid extraction by mixture of ethyl acetate and ethanol via response surface methodology for biodiesel production                                   |
| 2582               |                | , 1                    | 이재우      |  | 이현주   | Fe/N/C catalysts synthesized using graphene aerogel for electrocatalytic oxygen reduction reaction in an acidic condition  |
| 2589               | 1,, 1<br>,,, 1 | 2, 2,, 1<br>,,, 3      | 임광희      | 백기태(전북대) 3(self<br>1편 포함)<br>박영권(서울시립대)                                      | Bahman Ramavandi                            | Physico-chemical study of dew melon peel biochar for chromium attenuation from simulated and actual wastewaters  |
| 2602               |                | ,,, 1                  | 추광호      | 추광호(경북대)   | Mabrouk Ben Brahim                          | Electrochemical removal of the insecticide imidacloprid from water on a boron-doped diamond and Ta/PbO2 anodes using anodic oxidation process                              |
| 2610               |                |                        | 박영권      |  | 윤용승   | Operational characteristics of the pilot-scale coal gasification with filtration and hot fuel gas desulfurization  |
| 2622               |                |                        | 박영권      |  | Xingjun Yao, Yan Zhang,<br>Lingyun Du       | Efficient continuous epoxidation of biodiesel in a microstructured reactor   |
| 2628               |                | 1,,, 2                 | 박영권      | 이재우(KAIST)   | Ali Farzi                                   | An experimental and kinetic study of toluene oxidation over LaMn1-xBxO3 and La0.8A0.2B0.7Mn0.3O3 (A= Sr, Ce and B= Cu, Fe) nano-perovskite catalysts                       |
| 2638               | ,, 1           | 3, 2<br>,,, 2<br>,,, 1 | 김범수      | 박영권(서울시립대) 5   | Hui Zhou,<br>Yanguo Zhang                   | Interactions among biomass components during co-pyrolysis in (macro)thermogravimetric analyzers  |
| 2644               |                | 1                      | 차형준      |  | 서태석   | An integrated slidable direct polymerase chain reaction-capillary electrophoresis microdevice for rapid Y chromosome short tandem repeat analysis                          |
| 2650               |                | ,,, 1                  | 김승욱      |  | Everaldo Silvino dos Santos                 | Modeling and simulation of Bacillus cereus chitosanase activity during purification using expanded bed chromatography  |
| 2659               |                |                        | 이병철      |  | Wenjing Xu                                  | Synthesis of acrylic-lignosulfonate resin for crystal violet removal from aqueous solution   |
| 2668               |                |                        | 김종학      |  | Haigang Li                                  | On the cleaning procedure of reverse osmosis membrane fouled by steel wastewater   |
| 2674               |                | ,,, 1                  | 김종학      |  | Abdolreza Moghadassi                        | Fabrication of novel polyethersulfone based nanofiltration membrane by embedding polyaniline-co-graphene oxide nanoplates  |
| 2684               |                | , 1,, 1                | 박윤국      |  | 이만승   | Selective recovery of Fe(III), Pd(II), Pt(IV), Rh(III) and Ce(III) from simulated leach liquors of spent automobile catalyst by solvent extraction and cementation         |
| 2691               |                | 1,, 3<br>,,, 1         | 박윤국      | 박영권(서울시립대) 3<br>유준(부경대)  | 우희철   | Characterization of the bio-oil and bio-char produced by fixed bed pyrolysis of the brown alga Saccharina japonica   |
| 2699               |                |                        | 박윤국      |  | 이신근   | Ultra-thin Ni dense membrane prepared by polishing treatment of porous nickel support for high-temperature H2 separation   |
| 2703               |                | ,,, 1                  | 김도형      |  | Yong Sun                                    | Hydrochar preparation from black liquor by CO2 assisted hydrothermal treatment: Optimization of its performance for Pb2+ removal   |
| 2711               |                |                        | 김도형      |  | 김창구   | Effect of oxygen flow rate on the electrical and optical characteristics of dopantless tin oxide films fabricated by low pressure chemical vapor deposition                |
| 2716               |                | ,, 1,,, 1              | 이대연      |  | Senthil Kumar Ponnusamy                     | Influence of ultrasonication on preparation of novel material for heavy metal removal from wastewater  |
| 2732               |                |                        | 김대수      |  | 임상혁   | Formation of uniform TiO2 nanoshell on α-alumina nanoplates for effective metallic luster pigments   |
| 2738               | ,,, 1          | ,,, 1                  | 이대연      | 김범상(홍익대)(self)   | 박수남   | Physical characteristics and in vitro skin permeation of elastic liposomes loaded with caffeic acid-hydroxypropyl-β-cyclodextrin   |
| 2747               |                | 2,, 1<br>,,, 2         | 정경열      | 배윤상(연세대) 4   | Zhiyong Deng,<br>Gongying Wang              | Synthesis of metal organic framework (MOF-5) with high selectivity for CO2/N2 separation in flue gas by maximum water concentration approach                               |
| 2756               |                | ,,, 2                  | 정경열      |  | Kamar Shah Ariffin                          | A novel rapid mist spray technique for synthesis of single phase precipitated calcium carbonate using solid-liquid-gas process   |

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| 2761                           |                | ''' 2<br>''' 1            | 김승욱      |  | 이창수<br>(Invited Review Paper)                   | Flow control in paper-based microfluidic device for automatic multistep assays: A focused minireview   |
| 2771                           | 1              | 1, 2, 1<br>''' 1<br>''' 1 | 용기중      | 김대형(서울대)(self)<br>김민준(가천대)<br>김민준(연세대)<br>김민준(연세대)<br>김민준(연세대)               | 정수환<br>(Invited Review Paper)                   | Stretchable carbon nanotube conductors and their applications  |
| 2788                           |                | 2, 1                      | 김범수      | 최지철(나현빈(명지대)<br>박시재(이화여대)&주정찬(KRICT) 공동교신                                    | 박시재, 나정걸<br>(Review Paper)                      | Advances in the biological treatment of coal for synthetic natural gas and chemicals   |
| 2802                           | 1              | 2, 1<br>''' 1             | 추광호      |  | Hamayun Khan<br>(Rapid Communication)           | Photocatalytic degradation of bromophenol blue in aqueous medium using chitosan conjugated magnetic nanoparticles  |
| 2808                           | , 1            | ''' 1                     | 최수형      | 류준형(동국대)(self)   | 김지용   | An optimization-based planning of investment strategies for a renewable energy supply system from biomass utilization  |
| 2820                           |                | ''' 1                     | 김민찬      |  | Yi-Xin Pan                                      | Modeling of low viscosity oil-water annular flow in horizontal and slightly inclined pipes: Experiments and CFD simulations  |
| 2830                           |                |                           | 안경현      |  | 권지현   | Simulation of solid-liquid flows using a two-way coupled smoothed particle hydrodynamics-discrete element method model   |
| 2842                           |                | ''' 1                     | 신채호      |  | Suttichai Assabumrungrat                        | Comparison of physically mixed and separated MgO and WO3/SiO2 catalyst for propylene production via 1-butene metathesis  |
| 2849                           |                |                           | 신채호      |  | Jianglong Yu                                    | Sulfidation and regeneration of iron-based sorbents supported on activated-chars prepared by pressurized impregnation for coke oven gas desulfurization              |
| 2858                           |                | ''' 2<br>''' 1            | 엄영순      | 이은열(경희대)<br>권동채(서울과학기술대) 2   | Xinde Chen                                      | Liquefaction and characterization of residue of oleaginous yeast in polyhydric alcohols  |
| 2863                           | , 1            |                           | 엄영순      |  | 김태현   | Production of fermentable sugars from corn fiber using soaking in aqueous ammonia (SAA) pretreatment and fermentation to succinic acid using Escherichia coli AFP184 |
| 2869                           |                | 1, 1                      | 임광희      |  | Yuqun Zhuo                                      | Density functional theory study on Hg removal mechanisms of Cu-impregnated activated carbon prepared by simplified method  |
| 2878                           |                | 1, 2<br>''' 1<br>''' 1    | 추광호      |  | Babak Kakavandi                                 | Application of mesoporous magnetic carbon composite for reactive dyes removal: Process optimization using response surface methodology                               |
| 2891                           |                | , 1                       | 박영권      | 배종욱(성균관대)  | 한귀영   | Thermo-catalytic decomposition of waste lubricating oil over carbon catalyst   |
| 2898                           | ''' 1<br>''' 1 | 2, 2                      | 추광호      | 백기태(전북대)   | Muhammad Bilal                                  | Equilibrium kinetic and thermodynamic studies of Cr(VI) adsorption onto a novel adsorbent of Eucalyptus camaldulensis waste: Batch and column reactors               |
| 2908                           |                |                           | 김승욱      |  | Kequan Chen                                     | Potential industrial application of Actinobacillus succinogenes NJ113 for pyruvic acid production by microaerobic fermentation                                       |
| 2915                           |                |                           | 김범수      |  | Srikanta Dinda                                  | Production of bio-epoxide and bio-adhesive from non-edible oil   |
| 2923                           |                | , 1, 1                    | 김승욱      | 박영권(서울시립대)   | Shuang Yi                                       | Synergistic effect in low temperature co-pyrolysis of sugarcane bagasse and lignite  |
| 2930                           |                |                           | 이병철      |  | Mohammad Reza Dehghani                          | A simple accurate model for prediction of physical properties of petroleum fractions   |
| 2943                           | 1, 1           | 1, 1<br>''' 1             | 박윤국      | 이재형(카이스트)<br>김민준(연세대)&김정현(한양대) 공동교신<br>이재형(카이스트)<br>이재형(연세대)&이종(고려대) 공동교신    | Behnam Khoshandam                               | A comparative study of CO2 and CH4 adsorption using activated carbon prepared from pine cone by phosphoric acid activation   |
| 2953                           | 1              | 1, 2                      | 김종학      | 정경열(공주대)(self)   | Javad Karimi-Sabet,<br>Mojtaba Shariaty-niassar | Experimental investigation of nanofibrous poly(vinylidene fluoride) membranes for desalination through air gap membrane distillation process                         |
| 2961                           |                | ''' 1                     | 이병철      |  | 임종성   | Vapor-liquid equilibria for the binary mixtures of methanol+cyclopentyl methyl ether (CPME)  |
| 2968                           |                | , 2, 1                    | 김종학      |  | Majid Peyravi                                   | Self-cleaning behavior of nanocomposite membrane induced by photocatalytic WO3 nanoparticles for landfill leachate treatment   |
| 2982                           | , 1            | 1, 1                      | 변헌수      | 박윤국(홍익대)(self)<br>박소진(홍익대)   | 박소진   | The selectivity of imidazolium-based ionic liquids with different anions to BTX aromatics in hexane at 298.15 K and atmospheric pressure                             |
| 2990                           |                | ''' 1                     | 용기중      |  | Vijay Devra                                     | Synthesis and characterization of silver nanoparticles via green route   |
| 2998                           |                |                           | 김대수      |  | Abdul Latif Ahmad                               | Process modeling and optimization studies of high pressure membrane separation of CO2 from natural gas   |
| 3011                           |                | , 1                       | 하기룡      | 권영용(서울과학기술대)&양동진(한국교통대) 공동교신   | 류근갑   | Laccase-catalyzed polymerization of m-phenylenediamine in aqueous buffers  |
| 3016                           |                | 1, 1                      | 김대수      | 이도창(KAIST)   | 손영규, 성홍규  | Combustion of boron particles coated with an energetic polymer material  |
| 3021                           |                | ''' 1                     | 정경열      |  | Zhaoping Zhong                                  | Simulation of large biomass pellets in fluidized bed by DEM-CFD  |
| 3029                           |                | 2, 1                      | 정경열      | 김일태(가천대)<br>김일태(가천대)&김민준(가천대) 공동교신   | 이정규   | Manganese oxides nanocrystals supported on mesoporous carbon microspheres for energy storage application   |

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| 3035                           |                            | 1,,, 2<br>,,, 1            | 하기룡      |   | 김대수<br>(Invited Review Paper)                     | Recent development in thermoplastic/wood composites and nanocomposites: A review  |
| 3050                           |                            |                            | 김민찬      |   | Eakarach<br>Bumrungthaichaichan<br>(Review Paper) | A review on numerical consideration for computational fluid dynamics modeling of jet mixing tanks   |
| 3069                           |                            | , 1,,, 1                   | 김민찬      | 안경현(서울대)  | 안경현(Review Paper)                                 | A review on particle dynamics simulation techniques for colloidal dispersions: Methods and applications   |
| 3079                           |                            |                            | 최수형      |   | 이지태   | Extremum seeking control using a partial sum of input-output product  |
| 3085                           |                            | 1, 1<br>,,, 1<br>,,, 1     | 김민찬      | 김종학(연세대)&김정<br>훈(화학연) 공동교신<br>김종학(연세대)                                      | Seyed Saeid Hosseini                              | Gas permeation and separation in asymmetric hollow fiber membrane permeators: Mathematical modeling, sensitivity analysis and optimization                          |
| 3102                           |                            | ,,, 1                      | 김태진      |   | Zhenzhen Guan                                     | NOx removal by non-thermal plasma at low temperatures with amino groups additives   |
| 3109                           |                            |                            | 박은덕      |   | 이득기   | Kinetic modeling and dynamic simulation for the catalytic wet air oxidation of aqueous ammonia to molecular nitrogen  |
| 3115                           |                            |                            | 신재호      |   | 윤왕래   | The promotional effect of K on the catalytic activity of Ni/MgAl2O4 for the combined H2O and CO2 reforming of coke oven gas for syngas production                   |
| 3121                           |                            |                            | 이재우      |   | 정창복   | Effect of gas diffusion layer compression on the polarization curves of a polymer electrolyte membrane fuel cell: Analysis using a polarization curve-fitting model |
| 3128                           |                            | 1, 1                       | 엄영순      | 박영권(서울시립대) 2  | 고재홍, 김진수  | Thermogravimetric characteristics of α-cellulose and decomposition kinetics in a micro-tubing reactor   |
| 3134                           |                            | 1, 1,, 1<br>,,, 1<br>,,, 1 | 임광희      |   | Huawei Zhang                                      | Elemental mercury removal from syngas at high-temperature using activated char pyrolyzed from biomass and lignite   |
| 3141                           |                            |                            | 추광호      |   | Yafei Zhao,<br>Hongsong Zhang                     | Efficient removal of methylene blue in aqueous solution by freeze-dried calcium alginate beads  |
| 3149                           |                            | , 1,,, 3<br>,,, 2          | 추광호      |   | Glaydson Simoes dos Reis                          | Activated carbon from sewage sludge for removal of sodium diclofenac and nimesulide from aqueous solutions  |
| 3162                           |                            | ,,, 1<br>,,, 1             | 박영권      |   | 조영민   | CO2 decomposition using metal ferrites prepared by co-precipitation method  |
| 3169                           |                            | ,,, 1                      | 차형준      |   | Touseef Amna, 길명섭                                 | Low temperature synthesis of Manganese tungstate nanoflowers with antibacterial potential: Future material for water purification                                   |
| 3175                           |                            |                            | 김범수      |   | 김진현   | Kinetics and thermodynamics of paclitaxel extraction from plant cell culture  |
| 3184                           | ,, 1                       | , 1                        | 김종학      | 김종학(연세대)  | Mohammad Reza Mehrnia                             | Fabrication of polysulfone/zinc oxide nanocomposite membrane: Investigation of pore forming agent on fouling behavior   |
| 3194                           |                            |                            | 이병철      |   | Majid Pakizeh                                     | Modeling of gas permeation through mixed matrix membranes using a comprehensive computational method  |
| 3203                           | ,, 1                       | ,, 1,,, 1                  | 변헌수      | 정경열(공주대)  | 김영훈   | Superhydrophilic-underwater superoleophobic TiO2-coated mesh for separation of oil from oily seawater/wastewater  |
| 3207                           |                            | ,,, 1                      | 변헌수      | 김재창(경북대)  | 김재창   | Regenerable potassium-based alumina sorbents prepared by CO2 thermal treatment for post-combustion carbon dioxide capture   |
| 3216                           |                            | ,,, 1                      | 변헌수      | 이재우(KAIST)&신규<br>철(경북대) 공동교신  | 이상용   | Determination of reference enthalpies and thermal expansivity using molecular dynamic simulations in the distortion model of gas hydrates                           |
| 3222                           | ,, 2,,, 1                  | 1, 1,, 1<br>,,, 1          | 박윤국      | 김종학(연세대)&김정<br>훈(화학연) 공동교신<br>강미숙(영남대)(self)<br>이재우(KAIST)(self)            | 윤여일   | CO2 absorption characteristics of a piperazine derivative with primary, secondary, and tertiary amino groups  |
| 3231                           |                            |                            | 변헌수      |   | Aliakbar Roosta                                   | Volumetric properties of supercritical carbon dioxide from volume-translated and modified Peng-Robinson equations of state  |
| 3245                           |                            | 1,, 1                      | 용기중      | 이강택(연세대)  | 한학수   | Heat dissipation properties of polyimide nanocomposite films  |
| 3251                           |                            |                            | 김지현      |   | Guorui Zhu  | Optimization of operating conditions in the purification of graphite oxide dispersions  |
| 3258                           |                            |                            | 김지현      |   | 한춘  | Effects of modified LDPE on physico-mechanical properties of HDPE/CaCO3 composites  |
| 3267                           |                            | ,, 1                       | 하기룡      |   | 강신춘   | Thermal decomposition kinetics and characterization of poly(butylene 2,5-furandicarboxylate)/Closite30B composites  |
| 3273                           |                            |                            | 하기룡      |   | Mohammad Nader<br>Lotfollahi                      | A new polymeric additive as asphaltene deposition inhibitor in CO2 core flooding  |
| 3281                           |                            | ,,, 1                      | 이대연      |   | Alok Sinha  | Zero valent iron-mediated rapid removal of bis-azo dye in solution amended with dyebath additives: Biphasic kinetics and modelling                                  |
| 3289                           | 1                          | , 1<br>,,, 2               | 정경열      | 김대형(서울대)(self)  | Ali AsgharS arabi,<br>Majid Abdouss               | Synthesis and characterization of magnetic molecularly imprinted polymer nanoparticles for controlled release of letrozole  |



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| 3299                           |            | 4, 2,, 1<br>,,, 2<br>,,,, 6 | 엄영순  | 박영권(서울시립대) 11<br>김승욱(고려대)                       | 박영권<br>(Invited Review Paper)                  | Recent advances in the catalytic hydrodeoxygenation of bio-oil  |
| 3316                           |            |                             | 김대수  |   | Khalid Mahmood Zia<br>(Review Paper)           | Enhancement of bioactivity and bioavailability of curcumin with chitosan based materials  |
| 3330                           |            |                             | 추광호  |   | Panich Intra<br>(Rapid Communication)          | Comparison of electrostatic charge and beta attenuation mass monitors for continuous airborne PM10 monitoring under field conditions                            |
| 3337                           |            | ,, 1,,, 1                   | 김민찬  |   | Soubhik Kumar Bhaumik<br>(Rapid Communication) | Minimizing axial dispersion in narrow packed column using superhydrophobic wall   |
| 3343                           |            |                             | 최수형  |   | Muhammad Tajammal<br>Munir                     | Modelling batch bioreactions with continuous process simulators   |
| 3350                           |            | ,,, 1                       | 안경현  |   | Masoud Riaz                                    | Performance of polyacrylamide/Cr(III) gel polymer in oil recovery from heterogeneous porous media: An experimental study  |
| 3359                           |            | , 1,,, 4                    | 박은덕  | 신채호(충북대)<br>고창현(전남대)                            | Mehran Rezaei                                  | The effect of promoters on the CO2 reforming activity and coke formation of nanocrystalline Ni/AI2O3 catalysts prepared by microemulsion method                 |
| 3367                           |            | ,,, 1                       | 김태진  |   | 이승목  | Nanopillars TiO2 thin film photocatalyst application in the remediation of aquatic environment  |
| 3374                           |            |                             | 박은덕  |   | Duan-Jian Tao,<br>Xiang-Shu Chen               | Remarkably efficient hydrolysis of cinnamaldehyde to natural benzaldehyde in amino acid ionic liquids   |
| 3381                           | 1,,, 1     | ,,, 1                       | 박은덕  | 황성원(인하대)(self)<br>여영구(한양대)(self)                | 유준   | Design and analysis of a diesel processing unit for a molten carbonate fuel cell for auxiliary power unit applications  |
| 3388                           |            | 1,,, 1                      | 엄영순  | 황경란(KIER)&이관영(고려대) 공동교신                         | Achanai Buasri,<br>Vorrada Loryuenyong         | Rapid transesterification of Jatropha curcas oil to biodiesel using novel catalyst with a microwave heating system  |
| 3401                           |            |                             | 박영권  |   | 이재우  | Efficient in situ drying of low rank coal in a pressurized down-flow flash dryer  |
| 3407                           |            | 2                           | 박영권  |   | Yuanquan Xiong                                 | Enhancement of NO absorption in ammonium-based solution using heterogeneous Fenton reaction at low H2O2 consumption   |
| 3417                           | 1          | 1                           | 박영권  | 황성원(인하대)(self)<br>김종학(연세대)&김정훈(화학연) 공동교신        | 황성원  | Production of butene and butadiene by oxidative dehydrogenation of butane over carbon nanomaterial catalysts  |
| 3425                           |            | , 1                         | 추광호  |   | Chaochen Ma                                    | Polycyclic aromatic hydrocarbon emissions of non-road diesel engine treated with non-thermal plasma technology  |
| 3434                           |            | 1,, 1<br>,,, 1              | 차형준  | 권용재&정용진(서울과기대) 공동교신 2<br>김승욱(고려대)               | 김승욱  | Production and characterization of cellobiose dehydrogenase from Phanerochaete chrysosporium KCCM 60256 and its application for an enzymatic fuel cell          |
| 3442                           |            | 1,, 1<br>,,, 1              | 차형준  | 김일태&김문일(가천대) 공동교신<br>권용재(서울과기대)&정용진(한국교통대) 공동교신 | 박돈희  | Highly sensitive and selective dopamine detection by an amperometric biosensor based on tyrosinase/MWNT/GCE   |
| 3448                           |            | ,, 3,,, 1                   | 변헌수  | 김재창(경북대)<br>권영욱(성균관대)                           | 김재창  | Effects of alkali-metal carbonates and nitrates on the CO2 sorption and regeneration of MgO-based sorbents at intermediate temperatures                         |
| 3456                           |            |                             | 김종학  |   | 전보현  | Well-pattern investigation and selection by surfactant-polymer flooding performance in heterogeneous reservoir consisting of interbedded low-permeability layer |
| 3465                           |            | ,,, 1                       | 박윤국  |   | 윤여일  | CO2 capture using aqueous solutions of K2CO3+2-methylpiperazine and monoethanolamine: Specific heat capacity and heat of absorption                             |
| 3473                           |            |                             | 박윤국  |   | 윤여일  | CO2 absorption, density, viscosity and vapor pressure of aqueous potassium carbonate+2-methylpiperazine   |
| 3487                           |            |                             | 변헌수  |   | Xu Han   | Comparative study of homogeneous nucleation rate models for wet steam condensing flows  |
| 3493                           |            |                             | 이병철  |   | Jianbin Zhang,<br>Xionghui Wei                 | Experimental solubility and absorption mechanism of dilute SO2 in aqueous diethylene glycol dimethyl ether solution   |
| 3504                           |            | ,,, 1                       | 김도형  |   | Yuantao Chen                                   | Rapid adsorption of cobalt (II) by 3-aminopropyltriethoxysilane modified halloysite nanotubes   |
| 3511                           | 1          |                             | 김지현  | 주창식(부경대)(self)                                  | 주창식  | Preparation of indium tin oxide powder from low-grade metallic indium and tin   |
| 3516                           |            | 2,,, 1                      | 용기중  | 김도형(전남대) 2<br>백기태(전북대)                          | 김도형  | Iron oxide grown by low-temperature atomic layer deposition   |
| 3523                           |            | 1                           | 김대수  | 윤상준(KIER)                                       | 손정민  | Water gas shift reaction in a catalytic bubbling fluidized bed reactor  |
| 3529                           |            | ,,, 3                       | 이대연  |   | Seyed Saeid Hosseini                           | Enhancing removal and recovery of magnesium from aqueous solutions by using modified zeolite and bentonite and process optimization                             |
| 3541                           |            | ,, 1                        | 김대수  |   | Yujiang Li, Tao Wu                             | Rapid and effective removal of sodium lignosulfonate from aqueous solutions by in-situ formed magnesium hydroxide   |
| 3550                           |            |                             | 정경열  |   | Tri-Dung Ngo                                   | Wet process and exfoliation of clay in epoxy  |



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|                    | KJChE      | Others         |          |  |                                       |  |
| 1                  |            | 2, 1<br>,,, 1  | 박윤국      | 이기봉(고려대)&외국<br>인 공동교신<br>이기봉(고려대)  | 이기봉(RAPID<br>COMMUNICATION)           | Simplified synthesis of K <sub>2</sub> CO <sub>3</sub> -promoted hydrotalcite based on hydroxide-form precursors: Effect of Mg/Al/K <sub>2</sub> CO <sub>3</sub> ratio on high-temperature CO <sub>2</sub> sorption capacity |
| 6                  |            |                | 최수형      |  | 유창규                                   | Performance assessment and system optimization of a combined cycle power plant (CCPP) based on exergoeconomic and exergoenvironmental analyses   |
| 20                 | 1          |                | 김민찬      | 여영구(한양대)(self)   | Zhulin Yuan                           | Modeling and simulation of drying characteristics on flexible filamentous particles in rotary dryers   |
| 29                 | 1,,, 1     | ,,, 1          | 이관영      | 강미숙(영남대)(self)   | Yongqiang Xue, Yisheng Tan            | Effect of calcination atmospheres on the catalytic performance of nano-CeO <sub>2</sub> in direct synthesis of DMC from methanol and CO <sub>2</sub>   |
| 37                 |            |                | 박은덕      |  | 안화승                                   | Extrapolation of the Clausius-Clapeyron plot for estimating the CO <sub>2</sub> adsorption capacities of zeolites at moderate temperature conditions   |
| 41                 |            | 2,,, 1         | 김태진      |  | Fengxian Qiu                          | Structural evolution of hierarchical porous NiO/Al <sub>2</sub> O <sub>3</sub> composites and their application for removal of dyes by adsorption  |
| 54                 |            |                | 이재우      |  | 이진욱                                   | Pneumatic transport characteristics of coarse size pulverized coal for the application of fast circulating fluidized bed gasification  |
| 62                 |            | ,,, 1          | 이재우      |  | 한종인                                   | Harvesting of Scenedesmus obliquus cultivated in seawater using electro-flotation  |
| 66                 |            |                | 박영권      |  | Seyed Ali Hosseini                    | Synthesis of γ-alumina nano powder from Nepheline syenite  |
| 73                 |            | ,,, 1          | 박영권      |  | Hsiu-Po Kuo                           | Photocatalytic degradation of toluene in a staged fluidized bed reactor using TiO <sub>2</sub> /silica gel   |
| 81                 |            |                | 박영권      |  | 이광복                                   | Effect of acid treatment of Fe-BEA zeolite on catalytic N <sub>2</sub> O conversion  |
| 87                 | ,, 1       |                | 박영권      |  | Farhad Shahraki                       | Enhancement of gasoline selectivity in combined reactor system consisting of steam reforming of methane and Fischer-Tropsch synthesis  |
| 100                |            | ,,, 1          | 박영권      |  | 전종기, 장희동                              | Prospective application of carbon-silica derived from SiC-Si sludge as a support for Fe catalysts  |
| 105                |            |                | 차형준      |  | 박시재, 나정걸                              | Bio-solubilization of the untreated low rank coal by alkali-producing bacteria isolated from soil  |
| 110                |            | 1,, 1<br>,,, 2 | 김승욱      | 이창수(충남대)&정영<br>민(군산대) 공동교신<br>박영권(서울시립대)                                     | Linhua Gan                            | Synthesis and characteristics of lignin-derived solid acid catalysts for microcrystalline cellulose hydrolysis   |
| 118                |            | ,, 1<br>,,, 1  | 김범수      |  | Venkata Dasu Veeranki                 | Kinetics of growth on dual substrates, production of novel glutaminase-free L-asparaginase and substrates utilization by Pectobacterium carotovorum MTCC 1428 in a batch bioreactor  |
| 127                |            | , 1,,, 1       | 김범수      | 권용재(서울과기대)   | Shizhong Li                           | Extraction of bioethanol from fermented sweet sorghum bagasse by batch distillation  |
| 133                | ,,, 1      | ,,, 1          | 김범수      | 김범상(홍익대)(self)   | 김범상                                   | Skin permeability of compounds loaded within dissolving microneedles dependent on composition of sodium hyaluronate and carboxymethyl cellulose  |
| 139                |            | 1              | 차형준      |  | 조훈                                    | Algicidal effects of thiazolinedione derivatives against Microcystis aeruginosa  |
| 150                |            |                | 변현수      |  | Masoud Farsiani                       | Hydrodynamic characteristics of valve tray: Computational fluid dynamic simulation and experimental studies  |
| 160                |            | ,,, 2          | 김종학      |  | Gholamreza Bakeri, Ahmad Fauzi Ismail | Porous polyethersulfone hollow fiber membrane in CO <sub>2</sub> separation process via membrane contactor - The effect of nonsolvent additives  |
| 170                |            |                | 변현수      |  | Hui Chao Lv                           | Modeling of the phase equilibria of aqueous two-phase systems using three-dimensional neural network   |
| 179                |            | ,,, 1<br>,,, 1 | 변현수      |  | Swapnila Roy                          | Thermodynamics and kinetics study of defluoridation using Ca-SiO <sub>2</sub> -TiO <sub>2</sub> as adsorbent: Column studies and statistical approach  |
| 189                | , 1        | 1              | 변현수      | 김민찬(제주대)(self)   | 김민찬                                   | Magnetic field effect on the onset of Soret-driven convection of a nanofluid confined within a Hele-Shaw cell  |
| 199                | ,, 1       | 1,,, 2         | 김종학      | 임한권(대구가톨릭대) 2<br>임한권(대구가톨릭대)&<br>이신근(예기연) 공동교<br>신<br>강미숙(영남대)(self)         | 임한권                                   | Parametric studies for CO <sub>2</sub> reforming of methane in a membrane reactor as a new CO <sub>2</sub> utilization process   |
| 206                |            |                | 변현수      |  | Zuoxiang Zeng                         | Solubility and dissolution thermodynamics of hexaquoiron(III)tris(p-toluenesulfonate) in (ethanol + water) binary mixtures within 291.15-333.15 K  |
| 214                | 1          | ,,, 1          | 변현수      | 박소진(충남대) 2(self<br>1편 포함)  | 박소진                                   | Density, refractive index and kinematic viscosity of MIPK, MEK and phosphonium-based ionic liquids and the excess and deviation properties of their binary systems   |
| 225                |            | , 1            | 용기중      |  | 안지환                                   | Synthesis of aragonite-precipitated calcium carbonate from oyster shell waste via a carbonation process and its applications   |
| 231                |            | ,,, 1          | 박종곤      | 박용일(전남대)   | 유태경, 방석호                              | Aqueous-phase synthesis of metal nanoparticles using phosphates as stabilizers   |
| 234                |            | ,,, 1          | 하기룡      | 김도희(서울대)   | Shahriar Mahdavi                      | Characterization of bare and modified nano-zirconium oxide (ZrO <sub>2</sub> ) and their applications as adsorbents for the removal of bivalent heavy metals   |

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|-----|--|------------------|-----|--|-------------------------|---|
| 245 |  |                  | 하기룡 |  | 김정현                     | Fabrication of acrylic copolymer with aluminum nitride fillers and its physical and thermal properties                            |
| 249 |  | , 1,,, 1         | 김성한 |  | Ajit Pralhad Rathod     | Esterification of propionic acid with isopropyl alcohol over ion exchange resins: Optimization and kinetics                       |
| 259 |  | , 1,, 2<br>,,, 4 | 정경열 | 전종기(공주대)   | Talib Mohammed Albayati | High performance methyl orange capture on magnetic nanoporous MCM-41 prepared by incipient wetness impregnation method            |
| 266 |  | ,,, 2            | 정경열 | 임한권(대구가톨릭대)&<br>이신근(예기연)&이관영<br>(고려대) 공동교신<br>이신근(예기연)&이관영<br>(고려대) 공동교신 | 이신근, 이관영                | Electroless Pd deposition on a planar porous stainless steel substrate using newly developed plating rig and agitating water bath |

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| 시작<br>page         | 2018 피인용 수 |                   | 편집<br>위원  | 2018 인용자  | 저자  | 논문제목  |
|                    | KJChE      | Others            |           |   |   |   |
| 275                |            |                   | 이경범       |   | Xuefeng Yan   | Fault detection based on polygon area statistics of transformation matrix identified from combined moving window data   |
| 287                |            |                   | 최수형       |   | 이종민   | Dynamic matrix control applied on propane-mixed refrigerant liquefaction process  |
| 298                |            |                   | 박은덕       |   | Haibo Jin, Guangxiang He  | Synthesis and characterization of K/K <sub>2</sub> CO <sub>3</sub> -based solid superbase as a catalyst in propylene dimerization   |
| 305                |            | " 1<br>,,, 3      | 박은덕       | 고창현(전남대)<br>황영범(아인고)<br>(에기공대)<br>이관영(고려대)              | Chang-feng Yan  | Ni/La <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> catalyst for hydrogen production from steam reforming of acetic acid as a model compound of bio-oil   |
| 314                |            |                   | 용기중       |   | Hong Khanh Dieu Nguyen  | X-ray absorption spectroscopies of Mg-Al-Ni hydrotalcite like compound for explaining the generation of surface acid sites  |
| 320                |            | ,,, 1             | 박영권       | 전기원(화학연)  | 이관영   | Effect of surface composition of Fe catalyst on the activity for the production of high-calorie synthetic natural gas (SNG)   |
| 328                |            |                   | 김종학       |   | Shadi Hassanajii  | Hybrid nanocomposite membranes of sulfonated poly(ethersulfone)/1,1-carbonyl diimidazole/1-(3-aminopropyl)-silane/silica for direct methanol fuel cells   |
| 340                |            | " 1<br>,,, 3      | 엄영순       |   | Ashok Kumar Yadav   | Biodiesel production from oleander (Thevetia Peruviana) oil and its performance testing on a diesel engine  |
| 346                |            | 2,,, 1            | 엄영순       | 박영권(서울시립대)  | 김준석   | Pretreatment of Helianthus tuberosus residue by flow-through process for production of fermentable sugar  |
| 353                |            |                   | 김승욱       |   | Jun Chai  | A novel ultrasonic reactor for continuous production of biodiesel from waste acid oil   |
| 360                |            | 1                 | 이재우       | 이재우(KAIST)  | 염승호   | Optimization of a one-step direct process for biodiesel production from blended sewage sludge   |
| 366                |            |                   | 추광호       |   | Mehrdad Mozaffarian   | Carbonization and CO <sub>2</sub> activation of scrap tires: Optimization of specific surface area by the Taguchi method  |
| 376                | ,,, 1      | " 1<br>,,, 1      | 추광호       | 백기태(전북대(self)   | Amir Sheikhmohammadi  | Optimization of arsenite removal by adsorption onto organically modified montmorillonite clay: Experimental & theoretical approaches  |
| 384                |            | ,,, 1             | 추광호       |   | 전충  | Adsorption of silver ions from industrial wastewater using waste coffee grounds   |
| 392                |            | , 1               | 김진련       |   | Shagufta Kamal, Ismat Bibi  | Extraction and quantification of phenolic compounds from Prunus armeniaca seed and their role in biotransformation of xenobiotic compounds  |
| 400                |            |                   | 정경열       |   | 박수남   | Ceramide-based nanostructured lipid carriers for transdermal delivery of isoliquiritigenin: Development, physicochemical characterization, and in vitro skin permeation studies   |
| 407                |            | ,,, 1             | 박윤국       |   | Amor Hafiane  | Modeling of reverse osmosis flux of aqueous solution containing glucose   |
| 413                |            |                   | 김종학       |   | Ali Asghar Ghoreyshi  | Adsorptive separation of CO <sub>2</sub> and CH <sub>4</sub> by the broom sorghum based activated carbon functionalized by diethanolamine   |
| 425                | ,,, 1      | , 1,, 2           | 박윤국       |   | Mostafa Keshavarz Moraveji  | Implementation of soft computing approaches for prediction of physicochemical properties of ionic liquid mixtures   |
| 440                |            | 1,,, 3            | 김종학       | 김종학(영세대)&김정<br>우(화학연) 공대교사<br>김종학(영세대)&이<br>봉(고려대) 공대교신 | Reza Mosayebi Behbahani   | High speed spin coating in fabrication of Pebax 1657 based mixed matrix membrane filled with ultra-porous ZIF-8 particles for CO <sub>2</sub> /CH <sub>4</sub> separation   |
| 454                |            | 1, 1,, 1<br>,,, 1 | 변헌수       |   | Maryam Faraji, Mohammad Hadi Dehghani                                       | Optimization of fluoride adsorption onto natural and modified pumice using response surface methodology: Isotherm, kinetics and thermodynamic studies   |
| 463                |            |                   | 변헌수       |   | 임종성   | Measurement and correlation of the isothermal VLE data for the binary mixtures of cyclopentene (CPEN) + cyclopentyl methyl ether (CPME)   |
| 470                |            | , 1,,, 1          | 채희엽       | 하정숙(고려대)  | Caihua Ni   | Synthesis and characterization of polypyrrole doped by cage silsesquioxane with carboxyl groups   |
| 476                | ,, 1       | , 1,,, 1          | 이관영       | 문준형(서강대)<br>정종철(순천대)                                    | Banghua Peng  | Fabrication of carbon nanotube-loaded TiO <sub>2</sub> @AgI and its excellent performance in visible-light photocatalysis   |
| 484                |            | , 1,, 1<br>,,, 1  | 김대수       | 김동표(POSTECH)<br>이창수(충남대)                                | Min Su  | Synthesis of highly monodisperse silica nanoparticles in the microreactor system  |
| 495                |            | , 1,, 1           | 용기중       | 윤태경&박변준(경희<br>대) 공대교사<br>한윤환(전북대)                       | 김의정   | Polyol-mediated synthesis of ZnO nanoparticle-assembled hollow spheres/nanorods and their photoanode performances   |
| 500                |            | , 1,,, 3          | 정경열       | 용기중(POSTECH)  | Girdhar Joshi, Jitendra Kumar Pandey  | Formation of intermediate band and low recombination rate in ZnO-BiVO <sub>4</sub> heterostructured photocatalyst: Investigation based on experimental and theoretical studies  |
| 511                |            |                   | 김태진       |   | Léa Elias Zaidan Mendes Carneiro  | Heterogeneous photocatalytic degradation of phenol and derivatives by (BiPO <sub>4</sub> /H <sub>2</sub> O <sub>2</sub> /UV and TiO <sub>2</sub> /H <sub>2</sub> O <sub>2</sub> /UV) and the evaluation of plant seeds toxicity tests |
| 523                |            | ,,, 1             | 하기룡       |   | Sonalee Das   | Study of UV aging on the performance characteristics of vegetable oil and palm oil derived isocyanate based polyurethane  |
| 539                |            | ,,, 1             | 김대수       |   | 이준영   | Water vapor permeability, morphological properties, and optical properties of variably hydrolyzed poly(vinyl alcohol)/linear low-density polyethylene composite films   |
| 547                | 1          | ,, 1              | 김대수       | 김대형(서울대)(self)  | Mir Saied Seyed Dorraji   | Polyurethane foam-cadmium sulfide nanocomposite with open cell structure: Dye removal and antibacterial applications  |
| 555                |            |                   | 이대연       |   | 조영상   | Successive growth and applications of polymeric particles with controllable size and shapes   |
| 566                |            |                   | 정경열       |   | 이동현(성균관대)   | Bubble characteristics by pressure fluctuation analysis in gas-solid bubbling fluidized beds with or without internal   |
| 574                |            | ,,, 1             | 최정후       |   | Cangsu Xu   | Comparative experimental study of ethanol-air premixed laminar combustion characteristics by laser induced spark and electric spark ignition  |
| 580                |            | ,,, 1             | 이창근       |   | Yingjie Li  | CO <sub>2</sub> capture performance of cement-modified carbide slag   |

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|                    | KJChE           | Others                    |          |  |                                      |   |
| 589                | 1               | 1, 1<br>,,, 1<br>,,,, 1   | 하기룡      | 김대형(서울대)(self)<br>김교선(강원대)   | 김교선(INVITED REVIEW<br>PAPER)         | Magnetic nanoparticles for bioseparation  |
| 600                |                 |                           | 김종학      |  | Yongsheng Yan(REVIEW<br>PAPER)       | Facile synthesis of imprinted submicroparticles blend polyvinylidene fluoride membranes at ambient temperature for selective adsorption of methyl p-hydroxybenzoate               |
| 609                |                 | 1, 1<br>,,, 2             | 용기중      | 유태경&박범준(경희<br>대) 공동교신<br>전기준(인하대)  | Shaodan Zhao(RAPID<br>COMMUNICATION) | Ultrafine palladium nanoparticle-bonded to polyethylenimine grafted reduced graphene oxide nanosheets: Highly active and recyclable catalyst for degradation of dyes and pigments |
| 619                |                 |                           | 최수형      |  | 채충근                                  | FTA-FMEA-based validity verification techniques for safety standards  |
| 628                |                 |                           | 최수형      |  | 여영구                                  | A comparative study of teaching-learning-self-study algorithms on benchmark function optimization   |
| 642                | ,, 1            |                           | 최수형      | 최수형(전북대)(self)   | 박교식                                  | Simplified risk assessment on fire hazard of LPG filling station  |
| 651                |                 |                           | 김민찬      |  | Yonghui Li                           | CFD study on the radial distribution of coolants in the inlet section of rod-baffle-multi-tubular reactor   |
| 664                |                 | 1                         | 김도형      | 이창수(충남대)&정영<br>민(군산대) 공동교신   | Qiguang Dai, Fuwu Yan                | Effect of acid sites on catalytic destruction of trichloroethylene over solid acid catalysts  |
| 672                |                 | , 1,, 2<br>,,, 2<br>,,, 1 | 박은덕      | 박영권(서울시립대) 2   | Jianglong Yu                         | The effects of mineral salt catalysts on selectivity of phenolic compounds in bio-oil during microwave pyrolysis of peanut shell  |
| 681                |                 |                           | 박은덕      |  | Abbas Ali Khodadadi                  | Two-stage cracking catalyst of amorphous silica-alumina on Y zeolite for enhanced product selectivity and suppressed coking   |
| 692                |                 | ,, 2<br>,,, 1             | 이대연      | 강용(충남대)  | Mohammad Ghashghaee                  | Preparation of Cu-MgO catalysts with different copper precursors and precipitating agents for the vapor-phase hydrogenation of furfural   |
| 701                | , 1,, 1         |                           | 박영권      |  | 안화승                                  | Oxidation of tetralin to 1-tetralone over CrAPO-5   |
| 706                |                 |                           | 이재우      |  | Vahid Mohebbi                        | A new approach for modeling of multicomponent gas hydrate formation   |
| 717                |                 | ,,, 2                     | 임광희      | 박영권(서울시립대)   | Bo Wang                              | Removal of nitrate from constructed wetland in winter in high-latitude areas with modified hydrophyte biochars  |
| 723                |                 |                           | 변현수      |  | Jianbin Zhang                        | A novel hydrothermal releasing synthesis of modified SiO2 material and its application in phenol removal process  |
| 734                |                 |                           | 김태진      |  | 이승목                                  | Efficient oxidative removal of 4-tert-octylphenol and 17 $\alpha$ -ethynylestradiol from aqueous solutions using ferrate(VI)  |
| 741                |                 |                           | 박윤국      |  | 권태순                                  | One-dimensional column and three-dimensional box flushing of silicone emulsion-enhanced remediation for chlorinated solvent contaminated soils                                    |
| 747                |                 | ,,, 2                     | 박영권      |  | 박영욱, 김희태                             | HCl removal characteristics of calcium hydroxide at the dry-type sorbent reaction accelerator using municipal waste incinerator flue gas at a real site                           |
| 757                | ,, 1            | 1,,, 2                    | 추광호      |  | Ahmad Zarei                          | Response surface modeling, isotherm, thermodynamic and optimization study of arsenic (V) removal from aqueous solutions using modified bentonite-chitosan (MBC)                   |
| 768                |                 |                           | 김범수      |  | Seyed Mahmoud Mousavi                | Use of membrane separation in enzymatic hydrolysis of waste paper   |
| 773                |                 |                           | 김승욱      |  | Lata Nain                            | Simultaneous saccharification and fermentation of alkali-pretreated corncob under optimized conditions using cold-tolerant indigenous holocellulase                               |
| 781                |                 |                           | 김범수      |  | 신화성                                  | Identification of a new serine protease from polychaeta, Marphysa sanguinea, for its thrombolytic and anticoagulant activity  |
| 787                |                 | ,,, 1                     | 차형준      |  | 조훈                                   | Hypolipidemic and antioxidant effects on hypercholesterolemic rats of polysaccharide from Salicornia bigelovii seed   |
| 797                |                 | ,,, 1                     | 김범수      | 권용재(서울과학기술대)   | 오민규, 이진원                             | Comparison of metabolite profiling of Ralstonia eutropha H16 phaBCA mutants grown on different carbon sources   |
| 806                |                 |                           | 박윤국      |  | 서용철                                  | Adsorption and kinetics of elemental mercury vapor on activated carbons impregnated with potassium iodide, hydrogen chloride, and sulfur  |
| 814                | 1,,, 1<br>,,, 1 |                           | 변현수      | 박윤국(홍익대)(self)   | Tao Zhu, 노경호                         | Optimal separation of phenol from model oils by forming deep eutectic solvents with quaternary ammonium salts   |
| 822                |                 |                           | 박윤국      |  | Ali Saberimoghaddam                  | An experimental and statistical model of a cyclic pressure swing adsorption column for hydrogen purification  |
| 829                | ,, 1            | 1, 1<br>,,, 1             | 김종학      |  | Vahid Pirouzfard                     | The influence of nanoparticles on gas transport properties of mixed matrix membranes: An experimental investigation and modeling  |
| 844                |                 |                           | 김종학      |  | 양대륙                                  | Quantitative estimation of internal concentration polarization in a spiral wound forward osmosis membrane module comparing to a flat sheet membrane module                        |
| 854                | 1, 1            |                           | 변현수      |  | Seyyed Mohammad Ghoreishi            | Optimization of supercritical extraction of galegine from Galega officinalis L.: Neural network modeling and experimental optimization via response surface methodology           |

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|-----|----------------|-------------------------|-----|--|------------------------------|---|
| 866 |                |                         | 이병철 |  | Yinglong Wang                | Controllability of separate heat pump distillation for separating isopropanol-chlorobenzene mixture   |
| 876 |                |                         | 김지현 |  | Nafiseh Farhadian            | Improvement of methane uptake inside graphene sheets using nitrogen, boron and lithium-doped structures: A hybrid molecular simulation                              |
| 885 | ''' 1<br>''' 1 | 1,, 2<br>''' 5<br>''' 1 | 김대수 | 윤성훈(중앙대)&김상욱(아주대) 공동교신<br>정경열(공주대)<br>김도형(전남대)<br>최장욱(서울대)<br>정상철(순천대)<br>정상문(충북대)<br>문준혁(서강대) | 정상문                          | Electrochemical properties of $\alpha$ -Co(OH) <sub>2</sub> /graphene nano-flake thin film for use as a hybrid supercapacitor                                       |
| 892 | ''' 1          | 2, 2<br>''' 2<br>''' 1  | 하기룡 | 한윤봉(전북대)<br>김우재(가천대) 2<br>임성갑(KAIST) 2<br>임성갑&장용근(KAIST) 공동교신(self)                            | 임성갑                          | Organic/inorganic multilayer thin film encapsulation via initiated chemical vapor deposition and atomic layer deposition for its application to organic solar cells |
| 898 |                |                         | 이재근 |  | 이재근                          | Quantitative analysis of carbon nanotube cross-linking reactions  |
| 903 |                |                         | 용기중 |  | Alireza Sharif, Jamal Aalaie | Effect of hydrophobic modification on the structure and rheology of aqueous and brine solutions of scleroglucan polymer   |
| 913 |                |                         | 정경열 |  | 최정후, 이창근                     | Temperature effects on riser pressure drop in a circulating fluidized bed   |
| 921 |                | , 1                     | 이창근 |  | 민병무                          | Performance comparison of aqueous MEA and AMP solutions for biogas upgrading  |
| 928 |                | , 3                     | 이창근 | 박대원(부산대)   | 박대원(부산대)                     | Cycloaddition of carbon dioxide with propylene oxide using zeolitic imidazolate framework ZIF-23 as a catalyst  |
| 935 |                |                         | 이창근 |  | 정순관                          | Effect of process parameters on the CaCO <sub>3</sub> production in the single process for carbon capture and mineralization  |

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|                    | KJChE      | Others                    |          |   |   |   |
| 943                | ,, 1       | 1,,, 2<br>,,, 1           | 차형준      | 권용재&정용진(서울과기대) 공동교신<br>김범수(충북대)(self)<br>박용일(전남대)                           | 김범수(INVITED REVIEW PAPER)                 | Phyto-synthesized silver nanoparticles for biological applications  |
| 952                |            |                           | 최수형      |   | 류준형                                       | Minimizing loss in LCD glass manufacturing by cutting pattern optimization based on integer programming   |
| 961                | ,,, 1      |                           | 최수형      | 여영구(한양대)(self)  | 이문용                                       | Simplified design of proportional-integral-derivative (PID) controller to give a time domain specification for high order processes   |
| 969                | ,, 1       | ,,, 2                     | 김민찬      | 임영일(한경대)(self)  | Taleb Zarei                               | Computational fluid dynamics on the hydrodynamic characteristics of the conical cap tray  |
| 977                |            | 1                         | 김민찬      |   | Salman Movahedirad                        | Prediction of the self-diffusion coefficients in aqueous KCl solution using molecular dynamics: A comparative study of two force fields   |
| 987                |            | ,,, 1                     | 김태진      |   | Ajit Pralhad Rathod                       | Process optimization and kinetic modeling for esterification of propionic acid with benzyl alcohol on ion-exchange resin catalyst   |
| 997                | ,,, 1      | ,,, 1<br>,,, 1            | 김태진      | 박명준(아주대)(self)  | Mehdi Sedighi                             | Catalytic performance of CeAPSO-34 molecular sieve with various cerium content for methanol conversion to olefin  |
| 1004               |            |                           | 박은덕      |   | Changlong Yin                             | Effect of sulfidation process on catalytic performance over unsupported Ni-Mo-W hydrotreating catalysts   |
| 1013               |            |                           | 박은덕      |   | Babak Aghel                               | Optimization of biodiesel production process in a continuous microchannel using response surface methodology  |
| 1021               |            | , 2,, 2<br>,,, 3<br>,,, 4 | 엄영순      |   | Yuvarajan Devarajan                       | Performance and emissions analysis on diesel engine fuelled with cashew nut shell biodiesel and pentanol blends   |
| 1027               |            | ,,, 1                     | 엄영순      |   | Prakash Binnal                            | Production of high purity biodiesel through direct saponification of wet biomass of Chlorella protothecoides in a low cost microwave reactor: Kinetic and thermodynamic studies |
| 1037               |            |                           | 추광호      |   | Sana Dardouri                             | Adsorptive removal of methylene blue from aqueous solution using different agricultural wastes as adsorbents  |
| 1044               |            | , 1                       | 김태진      |   | Mayur Ashok Ubale                         | Experimental study on electrocoagulation of textile wastewater by continuous horizontal flow through aluminum baffles   |
| 1051               |            | ,, 1<br>,,, 1             | 추광호      |   | Fariba Safa                               | Magnetic nanocomposite of multi-wall carbon nanotube as effective adsorbent for methyl violet removal from aqueous solutions: Response surface modeling and kinetic study       |
| 1062               | ,, 1       | ,,, 1<br>,,, 1            | 추광호      |   | Vishal Kumar Sandhwar                     | Comparative study of electrocoagulation and electrochemical Fenton treatment of aqueous solution of benzoic acid (BA): Optimization of process and sludge analysis              |
| 1073               | ,,, 1      | , 1                       | 박윤국      |   | Mijia Zhu                                 | Acid-hydrolyzed agricultural residue: A potential adsorbent for the decontamination of naphthalene from water bodies  |
| 1081               |            |                           | 추광호      |   | Krzysztof Kuśmieriek                      | The effects of the thermal treatment of activated carbon on the phenol adsorption   |
| 1091               |            | , 1,,, 1<br>,,, 2         | 김태진      |   | E. M. El Afifi                            | Selective elimination of natural radionuclides during the processing of high grade monazite concentrates by caustic conversion method   |
| 1100               |            | ,, 1                      | 김승욱      |   | Soheil Dadari                             | Application of high frequency ultrasound in different irradiation systems for photosynthesis pigment extraction from Chlorella microalgae                                       |
| 1109               | 1          | ,, 1<br>,,, 1             | 김진련      |   | Veeranki Venkata Dasu                     | Medium optimization for high yield production of extracellular human interferon- $\gamma$ from Pichia pastoris: A statistical optimization and neural network-based approach    |
| 1122               |            |                           | 김승욱      |   | Jayanthi Abraham                          | Comparative study on degradation of norfloxacin and ciprofloxacin by Ganoderma lucidum JAPC1  |
| 1129               |            | ,, 2                      | 차형준      | 권용재(서울과기대)&정용진(한국교통대) 공동교신  | 오병근                                       | Electrochemical sensor for selective detection of norepinephrine using graphene sheets-gold nanoparticle complex modified electrode   |
| 1133               |            | ,,, 2                     | 채희엽      | 이재형(강원대)  | Alafara Abdullahi Baba, Ayo Felix Balogun | Leaching kinetics of a Nigerian complex covellite ore by the ammonia-ammonium sulfate solution  |
| 1141               |            | ,,, 1                     | 박윤국      |   | Younes Moussaoui                          | Adsorption of ibuprofen sodium salt onto Amberlite resin IRN-78: Kinetics, isotherm and thermodynamic investigations  |
| 1149               |            |                           | 이병철      |   | Mohsen Pirdashti                          | Liquid-liquid equilibrium and physical properties of aqueous mixtures of poly(vinyl pyrrolidone) with potassium phosphate at different pH: Experiments and modeling             |
| 1159               |            | , 1,, 1                   | 변현수      |   | Mohammad Karimi                           | Isotherm, kinetic and thermodynamic studies for Th(IV) sorption by amino group-functionalized titanosilicate from aqueous solutions   |
| 1170               |            | ,, 1                      | 박윤국      | 변현수(전남대)  | 변현수                                       | Phase equilibria measurement of binary mixtures for triethylene glycol dimethacrylate and triethylene glycol diacrylate in supercritical CO <sub>2</sub>                        |
| 1177               |            | ,,, 1                     | 김도형      |   | Khadijeh Didehban                         | Removal of anionic dyes from aqueous solutions using polyacrylamide and polyacrylic acid hydrogels  |
| 1187               | 1          | ,,, 1<br>,,, 1            | 김도형      | 박진호(영남대)(self)  | 박진호                                       | Effects of annealing temperature on Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) films formed by electrospray technique  |

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|------|-----------|-----------------|-----|--|-----------------|---|
| 1192 |           |                 | 용기중 |  | 차국현             | Scattering model for tetrapods with cylindrical arms  |
| 1199 |           | ,, 1,,, 1       | 박영권 |  | Dengxin Li      | Photocatalytic degradation of methylene blue in aqueous solution using ceramsite coated with micro-Cu2O under visible-light irradiation |
| 1208 |           | , 1,,, 1        | 김태진 |  | 박진호             | Effect of post-synthesis annealing on properties of SnS nanospheres and its solar cell performance                                      |
| 1214 |           | 1,,, 2<br>,,, 1 | 하기룡 | 박영권(서울시립대) 2<br>김승도(한림대)   | 김승도             | Pyrolysis kinetic analysis of poly(methyl methacrylate) using evolved gas analysis-mass spectrometry                                    |
| 1222 | ,,, 1     | , 1,,, 2        | 하기룡 | 김정현(서울시립대) 2<br>(self 1편 포함)   | 김정현             | Effect of high molecular weight isocyanate contents on manufacturing polyurethane foams for improved sound absorption coefficient       |
| 1229 |           | 1               | 박중곤 |  | Zhaoping Zhong  | DeNOx performance and characteristic study for transition metals doped iron based catalysts   |
| 1238 | ,, 1,,, 1 |                 | 최정후 |  | 김형택             | Comparison of catalytic pyrolysis and gasification of Indonesian low rank coals using lab-scale bubble fluidized-bed reactor            |
| 1250 |           |                 | 이창근 |  | Jianzhong Liu   | Mechanism underlying the effect of conventional drying on the grinding characteristics of Ximeng lignite                                |
| 1260 |           | ,,, 3           | 최정후 | 임한권(한림대)&이신근(예기연) 공동교신<br>임한권(대구가톨릭대)&이신근(예기연)&이관영(고려대) 공동교신<br>이신근(예기연)&이관영(고려대) 공동교신 | 이신근             | Methane steam reforming in a membrane reactor using high-permeable and low-selective Pd-Ru membrane                                     |
| 1266 |           |                 | 박중곤 |  | Min Zheng       | Phase diagram of CaSO4 reductive decomposition by H2 and CO   |
| 1273 |           | ,,, 1           | 이창근 |  | Changdong Sheng | Impact of co-firing lean coal on NOx emission of a large-scale pulverized coal-fired utility boiler during partial load operation       |

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|                    | KJChE      | Others              |          |   |  |   |
| 1281               |            |                     | 이대연      |   | 김주형(INVITED REVIEW<br>PAPER)           | Interfacial phenomena between conjugated organic molecules and noble metals   |
| 1294               |            | ,,, 1               | 김대수      |   | Huiliang Zhang                         | Improved mechanical properties, barrier properties and degradation behavior of poly(butylenes adipate-co-terephthalate)/poly(propylene carbonate) films   |
| 1305               |            | ,, 1,,, 2           | 박영권      | 백기태(전북대) 3  | 백기태                                    | Controlled release of iron for activation of persulfate to oxidize orange G using iron anode  |
| 1310               | ,, 1       |                     | 최수형      | 이문용(영남대)(self)  | 이범석                                    | Process simulation for the recovery of latic acid using thermally coupled distillation columns to mitigate the remixing effect  |
| 1319               | ,,,, 1     |                     | 김민찬      |   | Hassan Basirat Tabrizi                 | Nanoparticle deposition in transient gaseous microchannel flow considering hindered motion and rarefaction effect   |
| 1328               |            | , 1                 | 김민찬      | 안경현(서울대)  | Yanfang Yu                             | Laminar flow and chaotic advection mixing performance in a static mixer with perforated helical segments  |
| 1337               |            | ,, 1,,, 1           | 박은덕      | 김진수&박범준(경희대) 공동교신   | 고형림                                    | Effect of Cu promoter and alumina phases on Pt/Al2O3 for propane dehydrogenation  |
| 1346               |            | 1,,, 1<br>,,,, 1    | 박영권      | 신채호(충북대)  | Mohammad Haghighi                      | CO2/O2-oxidative dehydrogenation of ethane to ethylene over highly dispersed vanadium oxide on MgO-promoted sulfated-zirconia nanocatalyst: Effect of sulfation on catalytic properties and performance |
| 1358               |            | 1                   | 박은덕      |   | Tingshun Jiang                         | Enhanced ketalization activity of cyclohexanone and ethanediol over immobilized ionic liquid in mesoporous materials  |
| 1366               | ,,,, 1     |                     | 배종욱      | 신채호(충북대)(self)  | Kai Huang                              | Novel multi-scale diffusion model for catalytic methane combustion  |
| 1377               |            | ,,, 1               | 추광호      | 박영권(서울시립대)  | Duduku Krishnaiah                      | Removal of chlorinated phenol from aqueous solution utilizing activated carbon derived from papaya (Carica Papaya) seeds  |
| 1385               |            |                     | 추광호      |   | 연규석                                    | Performance improvement of local Korean natural hydraulic lime-based mortar using inorganic by-products   |
| 1393               |            |                     | 박영권      |   | Vitthal Laxmanrao Gole                 | Treatment of malachite green dye using combined oxidation techniques based on different irradiation   |
| 1400               |            |                     | 김범수      |   | 김선봉                                    | Deodorizing, antimicrobial and glucosyltransferase inhibitory activities of polyphenolics from biosource  |
| 1405               |            |                     | 변헌수      |   | Siavash Riahi                          | Quantitative structure-property relationship (QSPR) for prediction of CO2 Henry's law constant in some physical solvents with consideration of temperature effects                                      |
| 1416               |            | , 2,,, 2            | 김종학      |   | Nayan Ranjan Singha                    | Separation of tetrahydrofuran using RSM optimized accelerator-sulfur-filler of rubber membranes: Systematic optimization and comprehensive mechanistic study  |
| 1435               |            | , 1,,, 3<br>,,,, 1  | 변헌수      |   | Abolghasem Jouyban                     | Solubility of celecoxib in N-methyl-2-pyrrolidone + water mixtures at various temperatures: Experimental data and thermodynamic analysis  |
| 1444               |            |                     | 김종학      |   | Soheil Dadari                          | Flux, antifouling and separation characteristics enhancement of nanocomposite polyethersulfone mixed-matrix membrane by embedding synthesized hydrophilic adipate ferroxane nanoparticles               |
| 1456               |            | ,, 1,,, 2<br>,,,, 1 | 박윤국      |   | Pouria Amani                           | Investigation of hydrodynamic and mass transfer of mercaptan extraction in pulsed and non-pulsed packed columns   |
| 1466               |            |                     | 박윤국      |   | 여상도                                    | Habit modification of tamoxifen crystals using antisolvent crystallizations   |
| 1475               |            | ,, 2,,, 1           | 변헌수      | 임종성(서강대) 2<br>박윤국(홍익대)  | 임종성                                    | The effect of cyano groups on the solubility of carbon dioxide in ionic liquids containing cyano groups in anion  |
| 1483               |            | ,,,, 1              | 용기중      |   | 정찬화                                    | Effect of electrolyte composition on the morphological structures of dendritic copper powders prepared by a spontaneous galvanic displacement reaction  |
| 1490               |            | ,,, 1               | 김도형      | 김재정(서울대)&임태호(충실대) 공동교신  | 김재정, 조성기                               | Cu seed layer damage caused by insoluble anode in Cu electrodeposition  |
| 1495               |            | , 1                 | 김민찬      | 봉기완(고려대)&심민석(인천대) 공동교신  | 봉기완                                    | Fabrication of NOA microfluidic devices based on sequential replica molding   |
| 1500               |            |                     | 박영권      |   | 김영훈                                    | Photodegradation of organic dyes via competitive direct reduction/indirect oxidation on InSnS2 under visible light  |
| 1504               | , 1        |                     | 용기중      | 김도형(전남대)(self)  | 김도형                                    | Highly stable inverted organic photovoltaic cells with a V2O5 hole transport layer  |
| 1509               |            | ,,, 2<br>,,,, 1     | 하기룡      |   | Mohsen Vafaie Sefti, Saeid Sadeghnejad | Effects of reservoir temperature and water salinity on the swelling ratio performance of enhanced preformed particle gels   |
| 1517               |            |                     | 하기룡      |   | 정현욱, 김범상                               | Effects of solvents on rheological and crosslinking properties of photo-polymerized poly(ethylene glycol) hydrogels   |
| 1524               |            |                     | 이대연      |   | Yukihiko Matsumura                     | In situ mass spectrometry of glucose decomposition under hydrothermal reactions   |
| 1531               |            |                     | 용기중      |   | 한춘                                     | Effects of polyolefin elastomer on physico-mechanical and thermal properties of HDPE/CaCO3/LDPE-g-MA/POE composites   |
| 1541               |            | ,,,, 2              | 정경열      |   | Seyyed Hossein Hosseini                | Three-dimensional CFD study of conical spouted beds containing heavy particles: Design parameters   |
| 1554               |            |                     | 최정후      |   | Zixue Luo                              | A mode transition strategy from air to oxyfuel combustion in a 35 MW coal-fired power plant boiler  |
| 1563               |            |                     | 이창근      |   | Fengqi Si                              | Experimental and numerical predictions of ash particle erosion in SCR monolithic catalysts for coal-fired utility boilers   |
| 1576               |            | ,, 1                | 최정후      |   | Chunmei Lu                             | NH3-SCR performance and characterization over magnetic iron-magnesium mixed oxide catalysts   |
| 1584               |            | ,, 1<br>,,,, 1      | 최정후      |   | WeiLiang Cheng, Shu Qin Wang           | Enhanced photoactivity of N-doped TiO2 for Cr(VI) removal: Influencing factors and mechanism  |



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|                    | KJChE      | Others                     |          |   |  |  |
| 1591               |            |                            | 김범수      |   | 박종곤(INVITED REVIEW PAPER)                      | Recent advancements in bioreactions of cellular and cell-free systems: A study of bacterial cellulose as a model   |
| 1600               |            |                            | 차형준      |   | 오재민(RAPID COMMUNICATION)                       | Controlled drug release in silicone adhesive utilizing particulate additives   |
| 1604               |            |                            | 최수형      |   | 김지용  | Feasibility study and benefit analysis of biomass-derived energy production strategies with a MILP (mixed-integer linear programming) model: Application to Jeju Island, Korea |
| 1619               |            |                            | 최수형      |   | 황성원, 김건중                                       | Technology development for the reduction of NOx in flue gas from a burner-type vaporizer and its application   |
| 1630               |            |                            | 김민찬      |   | Shuguo Qu                                      | Computational fluid dynamics study on the anode feed solid polymer electrolyte water electrolysis  |
| 1638               |            |                            | 김민찬      |   | Suzylawati Ismail                              | Performance of fly ash based polymer gels for water reduction in enhanced oil recovery: Gelation kinetics and dynamic rheological studies                                      |
| 1651               | ,, 1       | ,,, 1                      | 이재우      | 고창현(전남대)  | Fang He  | Perovskite-type LaFe1-xMnxO3 (x = 0, 0.3, 0.5, 0.7, 1.0) oxygen carriers for chemical-looping steam methane reforming: Oxidation activity and resistance to carbon formation   |
| 1661               |            | ,,, 2                      | 배종욱      |   | Amit Keshav                                    | Esterification of acrylic acid with ethanol using pervaporation membrane reactor   |
| 1669               | ,,, 2      | 1,, 1                      | 박은덕      | 이도창(KAIST)<br>강미숙(영남대)(self)  | 강미숙  | Effective photoconversion of CO2 into CH4 over Ti30Si70MCM-41 nanoporous catalyst photosensitized by a ruthenium dye   |
| 1678               |            |                            | 추광호      |   | 최항석  | Determination of thermal decomposition kinetics of low grade coal employing thermogravimetric analysis   |
| 1693               |            | ,, 1                       | 박영권      | 조성준(전남대)  | 조영민  | Comparative evaluation of purity of green energetic material (ammonium dinitramide) depending on refining method   |
| 1699               |            | 1, 1<br>,,, 1<br>,,, 2     | 박윤국      |   | Mohammad Hadi Dehghani, Aliakbar Dehghan       | Removal of methylene blue dye from aqueous solutions by a new chitosan/zeolite composite from shrimp waste: Kinetic and equilibrium study                                      |
| 1708               |            | 1,, 1<br>,,, 1             | 박영권      | 박영권(서울시립대) 2  | Hai Nguyen Tran, Sheng-Jie You, Huan-Ping Chao | Insight into adsorption mechanism of cationic dye onto agricultural residues-derived hydrochars: Negligible role of $\pi$ - $\pi$ interaction                                  |
| 1721               |            |                            | 박영권      |   | Jun-xia Yu                                     | Effects of co-ion initial concentration ratio on removal of Pb2+ from aqueous solution by modified sugarcane bagasse   |
| 1728               |            |                            | 박영권      |   | 최용준  | Development of Cre-lox based multiple knockout system in Deinococcus radiodurans R1  |
| 1734               |            | 1                          | 차형준      |   | 홍순호  | Construction of methanol sensing Escherichia coli by the introduction of novel chimeric MxcQZ/OmpR two-component system from Methylobacterium organophilum XX                  |
| 1740               |            | 1                          | 변헌수      |   | Dhruva Kumar Singh                             | Synergistic extraction of Nd(III) with mixture of 8-hydroxyquinoline and its derivative with di-2-ethyl hexyl phosphoric acid in different diluents                            |
| 1748               |            |                            | 용기중      |   | 유승준  | Ultrasonic-assisted leaching kinetics in aqueous FeCl3-HCl solution for the recovery of copper by hydrometallurgy from poorly soluble chalcopyrite                             |
| 1756               | ,,, 1      |                            | 변헌수      |   | Yong Kang                                      | Purification of Chinese herbal extract with chitosan hydrochloride: Flocculation of single impurity and flocculation mechanism   |
| 1763               |            |                            | 김주민      |   | 이재우  | Efficient pressure swing adsorption for improving H2 recovery in precombustion CO2 capture   |
| 1774               |            | ,,, 1<br>,,, 1             | 김종학      |   | Sayed Mohsen Hosseini                          | Adapting the performance and physico-chemical properties of PES nanofiltration membrane by using of magnesium oxide nanoparticles  |
| 1781               |            |                            | 박윤국      |   | 강춘형  | Phase behavior of arbutin/ethanol/supercritical CO2 at elevated pressures  |
| 1786               |            | ,,, 1                      | 김태진      |   | Gulin Selda Pozan Soylu                        | V2O5-TiO2 heterostructural semiconductors: Synthesis and photocatalytic elimination of organic contaminant   |
| 1793               |            | , 1,,, 1                   | 권용재      | 김우재(가천대)  | Bing Huang                                     | A new process of acidic hydrolysis of residual chlorosilane liquid for the preparation of silica and hydrochloric acid   |
| 1801               |            |                            | 김도형      |   | Kuravappullam Vedhaiyan                        | Silver nanoparticle loaded silica adsorbent for wastewater treatment   |
| 1813               |            | ,,, 1                      | 김종학      |   | Sayed Mohsen Hosseini                          | Developing thin film heterogeneous ion exchange membrane modified by 2-acrylamido-2-methylpropanesulfonic acid hydrogel-co-super activated carbon nanoparticles coating layer  |
| 1822               |            |                            | 함승주      |   | 김유권, 강혁  | Enhanced photoactivity of stable colloidal TiO2 nanoparticles prepared in water by nanosecond infrared laser pulses  |
| 1827               |            |                            | 용기중      |   | Lingli Ni                                      | Iso-propanol assisted preparation of individualized functional palygorskite fibers and its impact on improving dispersion abilities in polymer nanocomposites                  |
| 1834               |            |                            | 이도창      |   | 유성식  | Development of osmotic repulsive potential using lattice fluid model on ligand capped metallic nanoparticles in gas expanded liquid system                                     |
| 1840               | ,,, 1      |                            | 이창근      |   | 홍연기, 유종균                                       | Phase separation characteristics in biphasic solvents based on mutually miscible amines for energy efficient CO2capture  |
| 1846               |            | 1, 1,, 5<br>,,, 3<br>,,, 1 | 권용재      |   | Zuo-Yu Sun, Guo-Xin Li                         | Propagation speed of wrinkled premixed flames within stoichiometric hydrogen-air mixtures under standard temperature and pressure  |
| 1858               |            | ,,, 1                      | 이창근      |   | Chunmei Lu                                     | Iron-manganese-magnesium mixed oxides catalysts for selective catalytic reduction of NOx with NH3  |
| 1867               | ,, 1       | 1,,, 3                     | 이창근      | 박영권(서울시립대) 2<br>백기태(전북대)  | Ping Lu  | Study on adsorption characteristics of biochar on heavy metals in soil   |
| 1874               |            |                            | 이창근      |   | Ye Jiang                                       | Poisoning effect of CaO on CeO2/TiO2 catalysts for selective catalytic reduction of NO with NH3  |
| 1882               |            |                            | 최정후      |   | Wei-Liang Cheng, Shu-Qin Wang                  | Study on the mechanism of desulfurization and denitrification catalyzed by TiO2 in the combustion with biomass and coal  |

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|                    | KJChE      | Others                  |          |  |                              |   |
| 1889               |            | 1,,, 1                  | 용기중      | 안경현(서울대)   | Jiying Men(REVIEW PAPER)     | Preparation of cationic functional polymer poly(Acryloxyethyltrimethyl ammonium chloride)/SiO <sub>2</sub> and its adsorption characteristics for heparin   |
| 1896               |            |                         | 김민찬      |  | 김우식                          | Effect of sinusoidal Taylor vortex flow on cooling crystallization of L-lysine  |
| 1905               |            |                         | 박영권      |  | Javad Karimi-Sabet           | Performance evaluation of a novel reactor configuration for oxidative dehydrogenation of ethane to ethylene   |
| 1914               |            |                         | 박영권      |  | Xiaoxiang Han, Shang-Bin Liu | Heterogeneous amino acid-based tungstophosphoric acids as efficient and recyclable catalysts for selective oxidation of benzyl alcohol  |
| 1924               |            |                         | 배종욱      |  | Yong Sun, Lu Lin             | One-pot synthesis of high fructose corn syrup directly from starch with SO <sub>4</sub> <sup>2-</sup> /USY solid catalyst   |
| 1930               |            | , 1,, 1                 | 김도희      |  | 이강택                          | A simple route for preparing Au/mesoporous silica yolk/shell particles for Au-catalyzed reactions   |
| 1936               | ,,, 2      | 2, 1<br>,,, 1<br>,,,, 1 | 김도희      | 강미숙(영남대) 4<br>류호정(KIER)(self)  | 강미숙                          | Effect of oxidation states of Mn in Ca <sub>1-x</sub> Li <sub>x</sub> MnO <sub>3</sub> on chemical-looping combustion reactions   |
| 1944               |            | ,, 1,,, 1               | 박은덕      |  | Guilin Zhou                  | Catalytic combustion of volatile aromatic compounds over CuO-CeO <sub>2</sub> catalyst  |
| 1952               |            |                         | 황성원      |  | 여영구                          | A comparative study of models for molten carbonate fuel cell (MCFC) processes   |
| 1961               |            | ,,, 1                   | 이재우      | 이관영(고려대)   | 이창하                          | Co-processing of heavy oil with wood biomass using supercritical m-xylene and n-dodecane solvents   |
| 1970               |            | ,,, 3<br>,,, 2          | 이대연      |  | Mu. Naushad                  | Synthesis of polyaniline based composite material and its analytical applications for the removal of highly toxic Hg <sup>2+</sup> metal ion: Antibacterial activity against E. coli                                      |
| 1980               |            | ,, 1,,, 2               | 추광호      | 백기태(전북대)   | 안종화                          | Changes of absorption spectra, SUVA <sub>254</sub> , and color in treating landfill leachate using microwave-assisted persulfate oxidation  |
| 1985               |            |                         | 권용재      |  | Heliene Leite Ribeiro Porto  | Mineral content in fishes in the lower course of the itapecuru river in the state of Maranhão, Brazil   |
| 1992               |            | ,,, 1                   | 김범수      | 이창수(충남대)   | Belma Özbek                  | Preparation and characterization of polymer-coated mesoporous silica nanoparticles and their application in Subtilisin immobilization   |
| 2002               |            |                         | 박윤국      |  | 김우식                          | Influence of feeding mode on cooling crystallization of L-lysine in Couette-Taylor crystallizer   |
| 2011               |            |                         | 변현수      |  | Asalil Mustain               | Isobaric vapor-liquid equilibrium of 2-propanone+2-butanol system at 101.325 kPa: Experimental and molecular dynamics simulation  |
| 2019               |            |                         | 김종학      |  | Pei Li                       | Designing an atmosphere controlling hollow fiber membrane system for mango preservation   |
| 2027               |            |                         | 박윤국      |  | 유성식                          | Measurement and correlation of excess enthalpies for water+ethanol+1-butyl 3-methylimidazolium tetrafluoroborate system   |
| 2033               |            | ,,, 1                   | 변현수      |  | Mohsen Pirdashti             | Response surface methodology for the evaluation of guanidine hydrochloride partitioning in polymer-salt aqueous two-phase system  |
| 2043               |            | ,,, 1                   | 이재우      |  | Amadeu K. Sum, 이보람           | Quantification of the risk for hydrate formation during cool down in a dispersed oil-water system   |
| 2049               |            |                         | 변현수      |  | Saleh Mohamed El Hady        | A novel procedure for processing of the xenotime mineral concentrate of southwestern Sinai  |
| 2056               |            | , 1,, 2<br>,,, 1        | 박윤국      | 변현수(전남대)&이봉<br>섭(경남대) 교신저자<br>3<br>변현수(전남대)                                | 변현수                          | Phase behavior of binary and ternary mixture for the poly(TBAEMA) and TBAEMA in supercritical solvents  |
| 2065               |            | ,, 1                    | 권용재      |  | Gaohong He                   | Mechanism of Ce promoting SO <sub>2</sub> resistance of MnO <sub>x</sub> /γ-Al <sub>2</sub> O <sub>3</sub> : An experimental and DFT study  |
| 2072               |            | ,,, 1                   | 김대수      |  | 권성현                          | Formation and stability study of silver nano-particles in aqueous and organic medium  |
| 2079               | ,, 1       | ,, 1                    | 박은덕      | 이강택(연세대)   | Moni Baskey (Sen)            | Enhanced sunlight photocatalytic activity of silver nanoparticles decorated on reduced graphene oxide sheet   |
| 2086               |            | ,,, 1                   | 이도창      | 박용일(전남대)   | 강태욱                          | Synthesis of colloidal plasmonic microspheres via spontaneous formation and three-dimensional assembly of metal nanoparticles   |
| 2092               |            | ,,, 2                   | 김대형      | 안동준(고려대)   | 안동준                          | Fabrication of sensory structure based on poly (ethylene glycol)-diacrylate hydrogel embedding polydiacetylene  |
| 2096               |            |                         | 정경열      |  | 김영훈                          | Electrochemical detection of arsenic(III) using porous gold via square wave voltammetry   |
| 2099               |            |                         | 김대수      |  | 조득희                          | Optimization and analysis of reaction injection molding of polydicyclopentadiene using response surface methodology   |
| 2110               |            | ,, 1<br>,,, 1           | 하기룡      |  | Payam Zahedi                 | Morphological, thermal and drug release studies of poly (methacrylic acid)-based molecularly imprinted polymer nanoparticles immobilized in electrospun poly (ε-caprolactone) nanofibers as dexamethasone delivery system |

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|                    | KJChE          | Others                     |           |  |  |  |
| 2119               | ,, 1           | ''' 1<br>''' 1             | 김종학       | 김종학(연세대)                                   | Suchhanda Srabane Swain<br>(REVIEW PAPER)                                  | Effect of nanofillers on selectivity of high performance mixed matrix membranes for separating gas mixtures  |
| 2135               | ''' 1          |                            | 황성원       | 여영구(한양대)(self)                             | Jun Liang  | Sparse probabilistic principal component analysis model for plant-wide process monitoring  |
| 2147               |                | 1                          | 박은덕       |  | 이관영, 서명기   | Porous MnO <sub>2</sub> /CNT catalysts with a large specific surface area for the decomposition of hydrogen peroxide   |
| 2154               | ,, 1           | , 1,, 4<br>''' 1<br>''' 1  | 박영권       |  | Farshid Ghanbari   | UV-LEDs assisted peroxymonosulfate/Fe <sup>2+</sup> for oxidative removal of carmoisine: The effect of chloride ion  |
| 2162               |                |                            | 김도희       |  | 김필   | Facile synthesis of tungsten carbide-carbon composites for oxygen reduction reaction   |
| 2169               |                | , 1,, 1<br>''' 1           | 김도희       |  | 정일민  | Multifunctional human-hair nanocomposites for oxidation of alcohols, aza-Michael reactions and reduction of 2-nitrophenol  |
| 2180               | ,, 1           | 1, 1,, 2<br>''' 1<br>''' 3 | 전기준       | 박영권(서울시립대) 7<br>(self 1 포함)<br>김승도(한림대)    | 박영권  | Upgrading of pyrolysis bio-oil using WO <sub>3</sub> /ZrO <sub>2</sub> and Amberlyst catalysts: Evaluation of acid number and viscosity  |
| 2188               |                | ''' 1                      | 유성종       |  | Seyed Reza Shabanian   | Prediction and optimization of hydrogen yield and energy conversion efficiency in a non-catalytic filtration combustion reactor for jet A and butanol fuels                          |
| 2198               |                | ,, 3,,, 1                  | 엄영순       |  | Jürgen Loipersböck   | Hydrogen production from biomass: The behavior of impurities over a CO shift unit and a biodiesel scrubber used as a gas treatment stage   |
| 2204               |                | '' 1,,, 2<br>''' 2         | 추광호       |  | 이상섭  | Thermogravimetric study for the co-combustion of coal and dried sewage sludge  |
| 2211               |                |                            | 추광호       |  | Hasan Ciftci   | Settling characteristics of coal preparation plant fine tailings using anionic polymers  |
| 2218               |                |                            | 박영권       |  | Sureyya Altin  | Comparison of electrodialysis and reverse electrodialysis processes in the removal of Cu(II) from dilute solutions   |
| 2225               |                |                            | 박영권       |  | Tekin Şahan  | Response surface approach for optimization of Hg(II) adsorption by 3-mercaptopropyl trimethoxysilane-modified kaolin minerals from aqueous solution                                  |
| 2236               |                | ''' 1                      | 김범수       |  | 김진   | Preparation and evaluation of a cosmetic adhesive containing guar gum  |
| 2241               |                |                            | 김범수       |  | Eric Wers  | New hybrid agarose/Cu-Bioglass® biomaterials for antibacterial coatings  |
| 2248               |                | ''' 1                      | 김범수       |  | Jianxin Tan, Liping Zhang  | Extraction of microbial transglutaminase from Amycolatopsis sp. fermentation broth using aqueous two-phase system  |
| 2255               |                | '' 2<br>''' 2              | 변헌수       | 전병수(부경대) 2                                 | 전병수  | Effects of process parameters on EPA and DHA concentrate production from Atlantic salmon by-product oil: Optimization and characterization   |
| 2265               |                |                            | 추광호       |  | Shabnam Hasani, Faramarz Doulati Ardejani                                  | Equilibrium and kinetic studies of azo dye (Basic Red 18) adsorption onto montmorillonite: Numerical simulation and laboratory experiments   |
| 2275               | ''' 1<br>''' 1 | 1,,, 1                     | 변헌수       | 이기봉(고려대)<br>차형준(POSTECH)<br>강미숙(영남대)(self) | Andrzej Wilk   | Solvent selection for CO <sub>2</sub> capture from gases with high carbon dioxide concentration  |
| 2284               |                |                            | 변헌수       |  | Selin Şahin  | Comparative study of modeling the stability improvement of sunflower oil with olive leaf extract   |
| 2293               |                |                            | 변헌수       |  | Prakorn Ramakul  | Salt effect on the liquid-liquid equilibrium of water-furfuryl alcohol-furfural system at 298.15 K   |
| 2301               |                | ''' 1                      | 김대수       |  | Manawwer Alam  | Anti-corrosive performance of epoxy coatings containing various nano-particles for splash zone applications  |
| 2311               |                | '' 2,,, 1<br>''' 1         | 김종학       |  | Mohsen Jahanshahi  | Decreasing ICP of forward osmosis (TFN-FO) membrane through modifying PES-Fe <sub>3</sub> O <sub>4</sub> nanocomposite substrate   |
| 2325               |                | ''' 1                      | 함승주       |  | Subramanian Nithiyanantham   | Physico-chemical and dielectric relaxation studies of ionic surfactants in Time Domain Reflectometry (TDR)   |
| 2331               |                | ,, 1,,, 1                  | 용기중       |  | Zheming Ni   | Preparation and photocatalytic activity of composite metal oxides derived from Salen-Cu(II) intercalated layered double hydroxides   |
| 2342               |                | ''' 1<br>''' 1             | 박영권       |  | Amir Hoossein Mahvi  | Decolorization of Direct Blue 71 solutions using tannic acid/polysulfone thin film nanofiltration composite membrane; preparation, optimization and characterization of anti-fouling |

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| 2355               |            |           | 김민찬      |   | 심태섭(INVITED REVIEW PAPER)      | Soft-, shape changing materials toward physiochemically powered actuators  |
| 2366               |            |           | 황성원      |   | 박명준                            | CFD analysis for the geometry effect of disc-type membrane module on separation performance  |
| 2374               |            | ,,, 1     | 박은덕      |   | Cheng-Long Guo                 | Enhanced CO methanation over Ni-based catalyst using a support with 3D-mesopores   |
| 2383               |            | ,,, 1     | 추광호      |   | Jinsong Zhou                   | Experimental study on ZnO-TiO2 sorbents for the removal of elemental mercury   |
| 2390               |            |           | 추광호      |   | 이기락                            | De-chlorination and solidification of radioactive LiCl waste salt by using SiO2-Al2O3-P2O5 (SAP) inorganic composite including B2O3 component  |
| 2397               |            |           | 권용재      |   | Jinbao Wan                     | Pretreatment of piggery digestate wastewater by ferric-carbon micro-electrolysis under alkalescence condition  |
| 2406               |            |           | 추광호      |   | Kumars Seifpanahi-Shabani      | Novel polymorphous aluminosilicate nano minerals: Preparation, characterization and dyes wastewater treatment  |
| 2418               |            | ,,, 1     | 백기태      |   | 이재영                            | Removal of polycyclic aromatic hydrocarbons from contaminated soil in a two-phase partitioning bioreactor  |
| 2423               |            | , 1       | 추광호      |   | Sayiter Yildiz                 | Artificial neural network (ANN) approach for modeling Zn(II) adsorption in batch process   |
| 2435               |            | ,,, 1     | 변헌수      |   | Adnan Abdul Jabbar Abdul Razak | Re-refining of used lubricant oil by solvent extraction using central composite design method  |
| 2445               |            |           | 김종학      |   | 구기갑                            | Crystallization of glycine in water/saturated fatty acid emulsions   |
| 2451               |            |           | 변헌수      |   | 김진현                            | Kinetic and thermodynamic characteristics of crystallization of vancomycin   |
| 2459               |            | 1         | 김범수      | 김종학(연세대)&김정훈(화학연) 공동교신  | Toraj Mohammadi                | Synthesis and characterization of poly(ether-block-amide) copolymers/multi-walled carbon nanotube nanocomposite membranes for CO2/CH4 separation   |
| 2471               |            | ,,, 2     | 정경열      |   | Zewu Zhang                     | Selective deposition of Au-Pt alloy nanoparticles on ellipsoidal zirconium titanium oxides for reduction of 4-nitrophenol  |
| 2480               |            |           | 권용재      |   | Mohammad Mizanur Rahman        | Effect of functionalized multiwalled carbon nanotubes on weather degradation and corrosion of waterborne polyurethane coatings   |
| 2488               |            |           | 이도창      |   | Bahram Nasernejad              | Surface modification of silica-graphene nanohybrid as a novel stabilizer for oil-water emulsion  |
| 2498               |            | ,,, 1     | 유성종      | 김종학(연세대)  | 김영훈                            | Effect of a roughness factor on electrochemical reduction of 4-nitrophenol using porous gold   |
| 2502               |            |           | 권용재      |   | 박민우, 권우성                       | Effects of oxygen plasma generated in magnetron sputtering of ruthenium oxide on pentacene thin film transistors   |
| 2507               |            | ,,, 1     | 박영권      |   | Weiliang Cheng, Shuqin Wang    | Efficient photocatalytic removal of aqueous Cr(VI) by N-F-Al tri-doped TiO2  |
| 2514               |            | ,,, 1     | 박윤국      |   | 신규철, 이훈                        | Structure identification of binary 1-propanol+methane hydrate using neutron powder diffraction   |
| 2519               | ,,, 1      |           | 전기준      |   | 원성욱                            | Polyethylenimine-coated polysulfone/bacterial biomass composite fiber as a biosorbent for the removal of anionic dyes: Optimization of manufacturing conditions using response surface methodology |
| 2527               |            | ,,, 1     | 김영규      |   | Majid Abdouss                  | Synthesis and characterization of physicochemical properties of hydrophilic imidazolium-based ionic liquids  |
| 2536               |            | ,, 1      | 김대수      | 김덕준(성균관대)   | 김덕준                            | The effect of cetyltrimethylammonium bromide on the coefficient of thermal expansion and optical transmittance of poly(ether sulfone) film   |
| 2541               |            |           | 이재우      |   | 최정후, 이창근                       | Properties of an inclined standpipe for feeding solids into a bubbling fluidized-bed   |
| 2548               | , 1        | , 1,,, 2  | 배종욱      | 이시훈(전북대)  | Florian Benedikt               | Advanced dual fluidized bed steam gasification of wood and lignite with calcite as bed material  |

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| 2559                | ,,, 1      | ,,, 1      | 변헌수      |  | Bipul Das(REVIEW PAPER) | Separation of oil from oily wastewater using low cost ceramic membrane  |
| 2570                |            |            | 황성원      |  | Gaurav Manik            | Energy management in multi stage evaporator through a steady and dynamic state analysis   |
| 2584                |            | ,, 1       | 최수형      | 이종민(서울대)   | 이종민                     | A prioritization method for replacement of water mains using rank aggregation   |
| 2591                |            |            | 권용재      |  | Wega Trisunaryanti      | Hydrocracking of waste lubricant into gasoline fraction over CoMo catalyst supported on mesoporous carbon from bovine bone gelatin  |
| 2597                | ,, 2       |            | 배종욱      | 강미숙(영남대)(self)   | 김형택                     | A study on the direct catalytic steam gasification of coal for the bench-scale system   |
| 2610                |            |            | 김도희      |  | 신채호                     | Reductive amination of ethanol to ethylamines over Ni/Al <sub>2</sub> O <sub>3</sub> catalysts  |
| 2619                | ,,, 1      | ,,, 1      | 추광호      | 김종학(연세대)   | Dekui Shen              | Pb(II) ion adsorption by biomass-based carbonaceous fiber modified by the integrated oxidation and vulcanization  |
| 2631                |            |            | 추광호      |  | Eliena Jonko Birriel    | Treatment of hydrocyanic galvanic effluent by electrocoagulation: Optimization of operating parameters using statistical techniques and a coupled polarity inverter                     |
| 2641                |            |            | 전기준      |  | Yanxin Wei              | Coagulation performance of a novel poly-ferric-acetate (PFC) coagulant in phosphate-kaolin synthetic water treatment  |
| 2648                |            |            | 백기태      |  | 류준형                     | Mathematical modelling of sustainable wastewater reuse networks considering CO <sub>2</sub> emissions   |
| 2662                |            |            | 박영권      |  | Ram Avtar Pandey        | Carbamazepine and oxcarbazepine removal in pharmaceutical wastewater treatment plant using a mass balance approach: A case study  |
| 2672                |            |            | 백기태      |  | Wenbiao Jin, Qilin Wang | Effects of particle size of zero-valent iron (ZVI) on peroxydisulfate-ZVI enhanced sludge dewaterability  |
| 2678                |            |            | 전기준      |  | 김현욱                     | Effects of supplement additives on anaerobic biogas production  |
| 2686                |            | ,, 1       | 박윤국      |  | Ali Mohebbi             | Prediction of critical temperature, critical pressure and acentric factor of some ionic liquids using Patel-Teja equation of state based on genetic algorithm                           |
| 2703                |            | ,,, 2      | 김종학      |  | Abdul Latif Ahmad       | Influence of ethanol as bore fluid component on the morphological structure and performance of PES hollow fiber membrane for oil in water separation                                    |
| 2710                |            | ,,, 1      | 변헌수      |  | 윤지호, 윤상준                | Spectroscopic investigation, cage occupancy, and gas storage capacity of hydroquinone clathrates formed with H <sub>2</sub> S–N <sub>2</sub> and COS–N <sub>2</sub> binary gas mixtures |
| 2715                |            |            | 최수형      |  | 양대륙                     | A modified scaled variable reduced coordinate (SVRC)-quantitative structure property relationship (QSPR) model for predicting liquid viscosity of pure organic compounds                |
| 2725                |            |            | 변헌수      |  | 신현용                     | Densities and excess volumes of aqueous monoethanolamine and diisopropanolamine systems at atmospheric pressure from 303.15 K to 333.15 K   |
| 2731                |            |            | 이재우      |  | 주용완                     | Behavior of toluene adsorption on activated carbon nanofibers prepared by electrospinning of a polyacrylonitrile-cellulose acetate blending solution                                    |
| 2738                |            | , 1        | 용기중      |  | 하종욱                     | Synthesis of pillar and microsphere-like magnesium oxide particles and their fluoride adsorption performance in aqueous solutions   |
| 2748                |            |            | 전기준      |  | Dong-ping Duan          | Mechanochemistry synthesis of high purity lithium carbonate   |
| 2756                |            |            | 용기중      |  | 김재호, 서명원                | Gasification characteristics of glass fiber-reinforced plastic (GFRP) wastes in a microwave plasma reactor  |
| 2764                |            |            | 용기중      |  | 정귀영                     | High textured carbon from chemical vapor infiltration with ethanol precursor and its rate of pyrolytic carbon deposition  |
| 2773                |            |            | 이도창      |  | 서봉국                     | Adsorption of acetaldehyde at room temperature in a continuous system using silica synthesized by the sol-gel method  |
| 2780                |            |            | 이도창      |  | 윤재경                     | Performance evaluation of rotating photoelectrocatalytic reactor for enhanced degradation of methylene blue   |

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| 2787                |            |                | 박영권      |   | Mu Naushad, Ponnusamy Senthil Kumar(INVITED REVIEW PAPER) | Sources and impacts of pharmaceutical components in wastewater and its treatment process: A review   |
| 2806                |            |                | 엄영순      |   | 김현우(RAPID COMMUNICATION)                                  | Biodiesel potential of rendered fat from avian influenza infected poultry in a burial site   |
| 2811                |            | ,,, 1          | 황성원      |   | Liangchao Li  | Computational fluid dynamics simulation of hydrodynamics in an uncovered unbaffled tank agitated by pitched blade turbines   |
| 2823                |            |                | 박은덕      |   | Qiulin Zhang  | Dry reforming of methane over Ni/SBA-15 catalysts prepared by homogeneous precipitation method   |
| 2832                | ,,, 1      |                | 배종욱      |   | Chunhua Wang  | Particle deposition behaviors of monolithic De-NOx catalysts for selective catalytic reduction (SCR)   |
| 2840                |            |                | 엄영순      |   | Binitha Njarakkattuvalappil Narayanan                     | Statistical optimization for lithium silicate-catalyzed production of biodiesel from waste cooking oil   |
| 2852                |            | 1              | 이창근      | 전충환(부산대)  | 전충환   | Effect of coal blending ratio on CO2 coke gasification   |
| 2861                |            |                | 백기태      |   | Yaji Huang  | Experimental and theoretical analysis of element mercury adsorption on Fe3O4/Ag composites   |
| 2870                |            |                | 박영권      |   | Afzal Karimi  | Oxidase-Peroxidase sequential polymerization for removal of a dye from contaminated water by horseradish peroxidase (HRP)/glucose oxidase (GOx)/polyurethane hybrid catalyst |
| 2879                |            | ,,, 1          | 전기준      | 추광호(경북대)  | Ming Zhang  | Phosphorus removal and recovery from wastewater by highly efficient struvite crystallization in an improved fluidized bed reactor  |
| 2886                | ,,, 2      |                | 이도창      |   | Vahid Javanbakht  | Preparation and characterization of a novel nanocomposite of clinoptilolite/maghemite/chitosan/urea for manganese removal from aqueous solution                              |
| 2901                |            |                | 김범수      |   | Venkata Dasu Veeranki                                     | Enhanced production of glutaminase free L-asparaginase II by Bacillus subtilis WB800N through media optimization   |
| 2916                |            | ,,, 4          | 용기중      | 권용재(서울과기대) 2<br>권용재&정용진(서울과기대) 공동교신<br>권용재(서울과기대)&김종학(연세대) 공동교신           | 권용재, 정용진  | Highly sensitive glucose biosensor using new glucose oxidase based biocatalyst   |
| 2922                |            |                | 박윤국      |   | 박종호   | Adsorption and desorption dynamics of CF4 on activated carbon beds: Validity of the linear driving force approximation for pressure-changing steps                           |
| 2933                |            |                | 김종학      |   | Mohammad Reza Ehsani                                      | Evaluating the ability of separation and adsorption of SO2 by nano-CuO-Fe2O3/TiO2 in high concentrations and moderate temperatures   |
| 2944                |            |                | 김종학      |   | Rosiah Rohani   | Evaluation of the operating parameters for the separation of xylitol from a mixed sugar solution by using a polyethersulfone nanofiltration membrane                         |
| 2958                |            | ,,, 2          | 백기태      |   | Aydin Rusen   | Optimization of gold recovery from copper anode slime by acidic ionic liquid   |
| 2966                |            | ,,, 1          | 김종학      | 추광호(경북대)  | 유창규   | Interpretation and diagnosis of fouling progress in membrane bioreactor plants using a periodic pattern recognition method   |
| 2978                |            | ,,, 1          | 유성중      | 김종학(연세대)&권용재(서울과기대) 공동교신  | Soosan Rowshanzamir                                       | Nitrogen doped graphene/cobalt-based catalyst layers of a PEM fuel cell: Performance evaluation and multi-objective optimization   |
| 2984                | ,,, 1      | ,,, 2<br>,,, 1 | 용기중      | 김도형(전남대)  | Suja Devipriya Purushothaman                              | Solar photocatalytic decolorization of synthetic dye solution using pilot scale slurry type falling film reactor   |
| 2993                | ,,, 1      | ,,, 4          | 전기준      | 김도형(전남대)<br>정상철(순천대)<br>정상문(충북대) 2(self 1편 포함)                            | 정상철   | Facile synthesis of iron-ruthenium bimetallic oxide nanoparticles on carbon nanotube composites by liquid phase plasma method for supercapacitor                             |
| 2999                |            | ,,, 1          | 권용재      |   | Mohammad Reza Samarghandi                                 | Electrodegradation of tetracycline using stainless steel net electrodes: Screening of main effective parameters and interactions by means of a two-level factorial design    |
| 3009                |            | ,,, 3<br>,,, 1 | 김도형      | 권용재&정용진(서울과기대) 공동교신<br>김종학(연세대)&권용재(서울과기대) 공동교신<br>권용재(서울과기대) 2           | 권용재, 정용진  | A correlation of results measured by cyclic voltammogram and impedance spectroscopy in glucose oxidase based biocatalysts  |
| 3017                |            |                | 이도창      |   | Hamed Rashidi   | Statistical optimization of curcumin nanosuspension through liquid anti-solvent precipitation (LASP) process in a microfluidic platform: Box-Behnken design approach         |
| 3028                |            |                | 하기룡      |   | Amit Kumar Singh  | Thermokinetics behavior of epoxy adhesive reinforced with low viscous aliphatic reactive diluent and nano-fillers  |

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| 3041                |            |                | 김범수      |  | 김진현(RAPID COMMUNICATION) | Effect of drying methods on removal of residual solvents from solvent-induced amorphous paclitaxel  |
| 3048                |            |                | 최수형      |  | 문일                       | Analysis of air blast effect for explosives in a large scale detonation   |
| 3054                |            |                | 최수형      |  | 유창규                      | Vulnerability assessment index at process-level for the identification of adaptive strategies in wastewater treatment plants under climate change             |
| 3067                |            |                | 황성원      |  | 이문용                      | Constraint handling optimal PI control of open-loop unstable process: Analytical approach   |
| 3077                |            | ,,, 3          | 박은덕      | 박영권(서울시립대)   | Shilin Zhao              | Effects of organic and inorganic metal salts on thermogravimetric pyrolysis of biomass components   |
| 3085                |            |                | 배종욱      |  | 박은덕                      | CO and CO2 methanation over Ni catalysts supported on alumina with different crystalline phases   |
| 3092                |            |                | 이창근      |  | 이시훈                      | A reaction kinetic study of CO2 gasification of petroleum coke, coals and mixture   |
| 3102                |            |                | 이창근      |  | 김형택, Guangsuo Yu         | Multilateral approaches for investigation of particle stickiness of coal ash at low temperature fouling conditions  |
| 3111                |            | ,,, 2          | 이재우      | 이관영(고려대)   | Mo Chu                   | Compositional and structural variations of bitumen and its interactions with mineral matters during Huadian oil shale pyrolysis                               |
| 3119                |            | ,,, 1          | 하기룡      |  | Ali Zeinolabedini Hezave | Investigating the effect of nano-silica on efficiency of the foam in enhanced oil recovery  |
| 3125                |            | ,,, 1          | 정경열      | 이관영(고려대)   | 선도원                      | A comparison of fluidized bed pyrolysis of oil sand from Utah, USA and Alberta, Canada  |
| 3132                |            | ,,, 1          | 전기준      |  | Cuiqing Li               | Deep desulfurization of model oil by photocatalytic air oxidation and adsorption using Ti(1-x)MxO2 (M=Zr, Ce)   |
| 3142                | ,,, 1      |                | 박영권      |  | Mojtaba Nakhaei Pour     | Efficiency evaluation on the photocatalytic degradation of zinc oxide nanoparticles immobilized on modified zeolites in the removal of styrene vapor from air |
| 3150                |            |                | 백기태      |  | 안종화                      | Effects and optimization of initial pH and sewage sludge compost content on leaching of lead and zinc in contaminated soil                                    |
| 3156                |            |                | 차형준      |  | Vivek Kumar Morya, 김은기   | Anti-melanogenic effect of Prunus davidiana extract in melan-a melanocyte through regulation of OCA-2, TRP-1 and tyrosinase                                   |
| 3163                |            | ,,, 1          | 심상준      |  | 신현재                      | Introduction of alkali soaking and microwave drying processes to improve agar quality of Gracilaria verrucosa   |
| 3170                |            |                | 김종학      |  | Seyed Abbas Mousavi      | Preparation of mesh-reinforced cellulose acetate forward osmosis membrane with very low surface roughness   |
| 3178                |            |                | 김종학      |  | Mahdi Pourafshari Chenar | Effect of support layer on gas permeation properties of composite polymeric membranes   |
| 3185                |            |                | 용기중      |  | Yinmin Zhang             | Preparation and characterization of a porous silicate material from silica fume   |
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| 3200                |            | ,,, 1          | 용기중      | 한윤봉(전북대)   | 서형택, 전형탁                 | Plasmon-enhanced ZnO nanorod/Au NPs/Cu2O structure solar cells: Effects and limitations   |
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| 3214                |            | ,,, 1<br>,,, 1 | 용기중      | 김도형(전남대)   | 이도창                      | Expanding depletion region via doping: Zn-doped Cu2O buffer layer in Cu2O photocathodes for photoelectrochemical water splitting                              |
| 3220                |            | ,,, 1<br>,,, 2 | 이도창      | 용기중(POSTECH)<br>김도형(전남대)   | 김교선                      | Preparation of WO3, BiVO4 and reduced graphene oxide composite thin films and their photoelectrochemical performance  |