

Jae W Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

307
papers

10,033
citations

50
h-index

89
g-index

328
ext. papers

11,726
ext. citations

5.4
avg, IF

6.75
L-index

#	Paper	IF	Citations
307	Stability and selective extinction in complex mutualistic networks.. <i>Physical Review E</i> , 2022 , 105, 014309	2.4	0
306	Enhanced energy efficiency and reduced CO ₂ emissions by hybrid heat integration in dimethyl carbonate production systems. <i>Separation and Purification Technology</i> , 2022 , 287, 120598	8.3	0
305	Controlled template removal from nanocast La _{0.8} Sr _{0.2} FeO ₃ for enhanced CO ₂ conversion by reverse water gas shift chemical looping. <i>Journal of CO₂ Utilization</i> , 2022 , 56, 101845	7.6	2
304	Coupled effect of TiO ₂ -x and N defects in pyrolytic waste plastics-derived carbon on anchoring polysulfides in the electrode of Li-S batteries. <i>Electrochimica Acta</i> , 2022 , 408, 139924	6.7	0
303	Exploring tuning phenomena of THF-H ₂ hydrates via molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2022 , 349, 118490	6	2
302	Review of recent technologies for transforming carbon dioxide to carbon materials. <i>Chemical Engineering Journal</i> , 2022 , 427, 130980	14.7	22
301	Electrosorption of cadmium ions in aqueous solutions using a copper-gallate metal-organic framework. <i>Chemosphere</i> , 2022 , 286, 131853	8.4	3
300	Low temperature CO ₂ conversion facilitated by the preserved morphology of metal oxide-perovskite composite. <i>Chemical Engineering Journal</i> , 2022 , 437, 135151	14.7	1
299	Electrostatic Self-assembly of 2-dimensional MXene-wrapped Sulfur Composites for Enhancing Cycle Performance of Lithium Sulfur Batteries. <i>Electrochimica Acta</i> , 2021 , 139539	6.7	5
298	Fundamental reaction kinetics of high-pressure reductive amination of polyalkylene glycol. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 106, 317-317	6.3	0
297	Application of principal component analysis on temporal evolution of COVID-19. <i>PLoS ONE</i> , 2021 , 16, e0260899	3.7	0
296	Fundamental role of Fe ^{III} active sites in a CO ₂ -derived ultra-porous carbon electrode for inhibiting shuttle phenomena in LiS batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 23660-23674	13	5
295	Depolymerization of polystyrene over Mg _x Al _y O catalysts derived from hydrotalcites: Effect of Mg/Al ratio on the basicity and catalytic performance. <i>Molecular Catalysis</i> , 2021 , 506, 111546	3.3	1
294	Low-temperature CO ₂ hydrogenation to CO on Ni-incorporated LaCoO ₃ perovskite catalysts. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 15497-15506	6.7	7
293	Sustainability of religious communities. <i>PLoS ONE</i> , 2021 , 16, e0250718	3.7	
292	Confined tetrahydrofuran in a superabsorbent polymer for sustainable methane storage in clathrate hydrates. <i>Chemical Engineering Journal</i> , 2021 , 411, 128512	14.7	11
291	Effect of multiple impeller designs and configurations on the droplet size and uniformity in a 100 L scale stirred tank. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 1348-1357	2.8	1

290	Rapid Formation of Hydrogen-Enriched Hydrocarbon Gas Hydrates under Static Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8414-8424	8.3	7
289	Plastic waste residue-derived boron and nitrogen co-doped porous hybrid carbon for a modified separator of a lithium sulfur battery. <i>Electrochimica Acta</i> , 2021 , 380, 138243	6.7	8
288	Invasion dynamics of a population growth model with the Allee effect in a one-dimensional patchy structure. <i>Journal of the Korean Physical Society</i> , 2021 , 79, 499-503	0.6	
287	Ni-Fe-Al mixed oxide for combined dry reforming and decomposition of methane with CO ₂ utilization. <i>Catalysis Today</i> , 2021 , 368, 86-95	5.3	14
286	Adsorptive removal of cesium by electrospun nanofibers embedded with potassium copper hexacyanoferrate. <i>Separation and Purification Technology</i> , 2021 , 255, 117745	8.3	8
285	Nitrogen-rich hierarchical porous carbon paper for a free-standing cathode of lithium sulfur battery. <i>Carbon</i> , 2021 , 172, 624-636	10.4	18
284	Ni-exsolved La _{1-x} CaxNiO ₃ perovskites for improving CO ₂ methanation. <i>Chemical Engineering Journal</i> , 2021 , 412, 127557	14.7	13
283	Nitrogen Recovery via Aquaponics/Bioaponics: Engineering Considerations and Perspectives. <i>ACS ES&T Engineering</i> , 2021 , 1, 326-339		6
282	CFD-aided design of internally heat-integrated pressure-swing distillation for ternary azeotropic separation constrained by pinch pressure. <i>Applied Thermal Engineering</i> , 2021 , 195, 117198	5.8	2
281	Fundamental Aspects of Enhancing Low-Temperature CO ₂ Splitting to CO on a Double La ₂ NiFeO ₆ Perovskite. <i>ACS Catalysis</i> , 2021 , 11, 12220-12231	13.1	5
280	Structure and dynamics of financial networks by feature ranking method. <i>Scientific Reports</i> , 2021 , 11, 17618	4.9	1
279	Immobilization of KTS-3 on an electrospun fiber membrane for efficient removal of Cs ⁺ and Sr ²⁺ . <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105991	6.8	1
278	Electrochemically-assisted removal of cadmium ions by redox active Cu-based metal-organic framework. <i>Chemical Engineering Journal</i> , 2021 , 421, 129765	14.7	6
277	Unfavorable energy integration of reactive dividing wall column for simultaneous esterification reactions. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 195-203	2.8	3
276	Reverse Water-Gas Shift Chemical Looping Using a Core-Shell Structured Perovskite Oxygen Carrier. <i>Energies</i> , 2020 , 13, 5324	3.1	7
275	CO ₂ -Derived Synthesis of Hierarchical Porous Carbon Cathode and Free-Standing N-Rich Carbon Interlayer Applied for Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5247-5259	6.1	13
274	Bio-Inspired Preparation of Clay-Hexacyanoferrate Composite Hydrogels as Super Adsorbents for Cs. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33173-33185	9.5	25
273	Avalanche size distribution of an integrate-and-fire neural model on complex networks. <i>Chaos</i> , 2020 , 30, 063118	3.3	2

272	Hydrate seeding effect on the metastability of CH ₄ hydrate. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 341-349	2.8	5
271	Effective removal of cesium from wastewater via adsorptive filtration with potassium copper hexacyanoferrate-immobilized and polyethyleneimine-grafted graphene oxide. <i>Chemosphere</i> , 2020 , 250, 126262	8.4	17
270	Enhancement of highly-concentrated hydrogen productivity in chemical looping steam methane reforming using Fe-substituted LaCoO ₃ . <i>Energy Conversion and Management</i> , 2020 , 207, 112507	10.6	19
269	Self-Powered Autonomous Wireless Sensor Node by Using Silicon-Based 3D Thermoelectric Energy Generator for Environmental Monitoring Application. <i>Energies</i> , 2020 , 13, 674	3.1	8
268	Recoverable magnetic nanoparticles as hydrate inhibitors. <i>Chemical Engineering Journal</i> , 2020 , 389, 1244617	4.7	12
267	Molecular Dynamics Simulations of Hydrophobic Nanoparticle Effects on Gas Hydrate Formation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4162-4171	3.8	13
266	One-pot selective production of levulinic acid and formic acid from spent coffee grounds in a catalyst-free biphasic system. <i>Bioresource Technology</i> , 2020 , 303, 122898	11	12
265	Chaotic Dynamics of a Simple Population Model under the Allee Effect. <i>Journal of the Korean Physical Society</i> , 2020 , 76, 533-536	0.6	1
264	Graphene intercalated free-standing carbon paper coated with MnO ₂ for anode materials of lithium ion batteries. <i>Electrochimica Acta</i> , 2020 , 348, 136310	6.7	25
263	Transformation of carbon dioxide into carbon nanotubes for enhanced ion transport and energy storage. <i>Nanoscale</i> , 2020 , 12, 7822-7833	7.7	15
262	Effects of Propylene Oxide End Capping on Amination of Polyalkylene Glycols. <i>ACS Omega</i> , 2020 , 5, 26545-26550	3.9	15
261	Improved H utilization by Pd doping in cobalt catalysts for reductive amination of polypropylene glycol.. <i>RSC Advances</i> , 2020 , 10, 45159-45169	3.7	2
260	One-pot conversion of carbon dioxide to CNT-grafted graphene bifunctional for sulfur cathode and thin interlayer of LiS battery. <i>Electrochimica Acta</i> , 2020 , 330, 135264	6.7	21
259	Enhanced Energy Savings from Simultaneous Triple Esterification of C ₄ -C ₆ Alcohols in a Single Reactive Distillation Column. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 1966-1978	3.9	8
258	Spent coffee derived hierarchical porous carbon and its application for energy storage. <i>Journal of Porous Materials</i> , 2020 , 27, 451-463	2.4	15
257	Production of levulinic acid from wet microalgae in a biphasic one-pot reaction process. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 1933-1941	2.8	3
256	Electrically Conductive Oxidation-Resistant Boron-Coated Carbon Nanotubes Derived from Atmospheric CO ₂ for Use at High Temperature. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8592-8597	5.6	6
255	Entrainer effect of n-hexanol reactant on coproducing n-butyl and n-hexyl acetate in energy-efficient reactive distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 154, 108048	3.7	6

254	Energy-Efficient Design of a Novel Double Annular Separation Column Using Pinch Pressure. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14398-14409	3.9	4
253	CO-Oxidized TiCT-MXenes Components for Lithium-Sulfur Batteries: Suppressing the Shuttle Phenomenon through Physical and Chemical Adsorption. <i>ACS Nano</i> , 2020 , 14, 9744-9754	16.7	44
252	Fractality and Multifractality in a Stock Market Nonstationary Financial Time Series. <i>Journal of the Korean Physical Society</i> , 2020 , 77, 186-196	0.6	1
251	Mesoporous Fe ₂ O ₃ @FeO ₂ @Al ₂ O ₃ Oxygen Carrier for Chemical Looping Dry Reforming with Subsequent Water Splitting. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15912-15920	3.9	8
250	One-step formation of hydrogen clusters in clathrate hydrates stabilized via natural gas blending. <i>Energy Storage Materials</i> , 2020 , 24, 655-661	19.4	23
249	A high-strength polyvinyl alcohol hydrogel membrane crosslinked by sulfosuccinic acid for strontium removal via filtration. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102824	6.8	22
248	Mesenchymal Stem Cell-Derived Extracellular Vesicles Decrease Lung Injury in Mice. <i>Journal of Immunology</i> , 2019 , 203, 1961-1972	5.3	52
247	Amino-functionalized magnetic chitosan beads to enhance immobilization of potassium copper hexacyanoferrate for selective Cs removal and facile recovery.. <i>RSC Advances</i> , 2019 , 9, 1106-1114	3.7	18
246	Simplifying biodiesel production from microalgae via wet in situ transesterification: A review in current research and future prospects. <i>Algal Research</i> , 2019 , 41, 101557	5	45
245	Multiple transesterifications in a reactive dividing wall column integrated with a heat pump. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 954-964	2.8	12
244	Visualized Pulverization via Ex Situ Analyses: Nickel Sulfide Anode Caged in a Hierarchical Carbon. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A838-A847	3.9	8
243	Energy-Efficient Reactive Dividing Wall Column for Simultaneous Esterification of n-Amyl Alcohol and n-Hexanol. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 8206-8219	3.9	9
242	Competition-induced increase of species abundance in mutualistic networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019 , 2019, 033502	1.9	1
241	Selective separation of cesium contaminated clays from pristine clays by flotation. <i>Chemical Engineering Journal</i> , 2019 , 355, 797-804	14.7	38
240	Effects of Large Guest Molecular Structure on Thermal Expansion Behaviors in Binary (C ₄ H ₈ O + CH ₄) Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20705-20714	3.8	5
239	Facile one-pot synthesis of dual-cation incorporated titanosilicate and its deposition to membrane surfaces for simultaneous removal of Cs ⁺ and Sr ²⁺ . <i>Applied Surface Science</i> , 2019 , 493, 165-176	6.7	10
238	Modeling and experiment of gas desorption of bubble column with an external loop in the heterogeneous flow regime. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1680-1687	2.8	7
237	Effect of Naphthenate Formation on the Anti-Adhesive Behavior of Clathrate Hydrates at a Water/Oil Interface. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5064-5070	3.9	8

236	Graphene Oxide/Carbon Nanotube Bilayer Flexible Membrane for High-Performance LiS Batteries with Superior Physical and Electrochemical Properties. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801992	4.6	42
235	Is a Part Better than the Whole for Cell-based Therapy for Acute Respiratory Distress Syndrome?. <i>Anesthesiology</i> , 2019 , 130, 683-685	4.3	3
234	Temperature- and Pressure-induced Structural Transition of Binary Clathrate Hydrates. <i>ChemPhysChem</i> , 2019 , 20, 429-435	3.2	5
233	Effect of Hydrophobic Silica Nanoparticles on the Kinetics of Methane Hydrate Formation in Water-in-Oil Emulsions. <i>Energy & Fuels</i> , 2019 , 33, 523-530	4.1	20
232	Clathrate nanocage reactor for the decomposition of greenhouse gas. <i>Chemical Engineering Journal</i> , 2019 , 359, 1629-1634	14.7	17
231	Prediction of Main Regime Transition with Variations of Gas and Liquid Phases in a Bubble Column. <i>ACS Omega</i> , 2019 , 4, 1329-1343	3.9	4
230	Cobalt oxide-porous carbon composite derived from CO ₂ for the enhanced performance of lithium-ion battery. <i>Journal of CO₂ Utilization</i> , 2019 , 30, 28-37	7.6	17
229	Evaluating isotherm models for the prediction of flue gas adsorption equilibrium and dynamics. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 734-743	2.8	10
228	Effect of pH and Concentrated Salt on the Droplet Size and Mass Transfer Coefficient in a Stirred Liquid-Liquid Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 2310-2321	3.9	8
227	Chemical looping partial oxidation of methane with CO ₂ utilization on the ceria-enhanced mesoporous Fe ₂ O ₃ oxygen carrier. <i>Fuel</i> , 2018 , 215, 787-798	7.1	47
226	Simulated-Sunlight-Driven Cell Lysis of Magnetophoretically Separated Microalgae Using ZnFe ₂ O ₄ Octahedrons. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 1655-1661	3.9	7
225	Syngas production on a Ni-enhanced Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier via chemical looping partial oxidation with dry reforming of methane. <i>Applied Energy</i> , 2018 , 211, 174-186	10.7	82
224	Enhanced electrocatalytic reduction of oxygen at CO ₂ -derived Fe/NB-doped porous carbon. <i>Journal of CO₂ Utilization</i> , 2018 , 26, 28-35	7.6	11
223	Rheology of Hydrate-Forming Emulsions Stabilized by Surfactant and Hydrophobic Silica Nanoparticles. <i>Energy & Fuels</i> , 2018 , 32, 5877-5884	4.1	22
222	Wet in situ transesterification of spent coffee grounds with supercritical methanol for the production of biodiesel. <i>Bioresource Technology</i> , 2018 , 259, 465-468	11	45
221	State and Network Structures of Stock Markets Around the Global Financial Crisis. <i>Computational Economics</i> , 2018 , 51, 195-210	1.4	18
220	Solvo-thermal in situ transesterification of wet spent coffee grounds for the production of biodiesel. <i>Bioresource Technology</i> , 2018 , 249, 494-500	11	27
219	Facile nano-templated CO ₂ conversion into highly interconnected hierarchical porous carbon for high-performance supercapacitor electrodes. <i>Carbon</i> , 2018 , 126, 215-224	10.4	58

218	Enhanced ethyl levulinate production from citrus peels through an in-situ hydrothermal reaction. <i>Bioresource Technology Reports</i> , 2018 , 2, 84-87	4.1	6
217	Synthesis of functionalized porous montmorillonite via solid-state NaOH treatment for efficient removal of cesium and strontium ions. <i>Applied Surface Science</i> , 2018 , 450, 404-412	6.7	26
216	Immobilization of potassium copper hexacyanoferrate in doubly crosslinked magnetic polymer bead for highly effective Cs ⁺ removal and facile recovery. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 68, 48-56	6.3	14
215	Agent-Based Models in Social Physics. <i>Journal of the Korean Physical Society</i> , 2018 , 72, 1272-1280	0.6	9
214	Thermal expansivity of β -irradiated clathrate hydrate with intracavity conformational change. <i>Chemical Physics Letters</i> , 2018 , 706, 14-18	2.5	3
213	Integrated reaction and separation in a continuous middle vessel column for enhancing indirect hydration of cyclohexene to cyclohexanol. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 123, 249-257	3.7	9
212	Y2O3-Inserted Co-Pd/zeolite catalysts for reductive amination of polypropylene glycol. <i>Applied Catalysis A: General</i> , 2018 , 568, 114-122	5.1	9
211	Role of transition metal in perovskites for enhancing selectivity of methane to syngas. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20580-20590	6.7	19
210	Super steep-switching (SS \geq mV/decade) phase-FinFET with Pb(Zr _{0.52} Ti _{0.48})O ₃ threshold switching device. <i>Applied Physics Letters</i> , 2018 , 113, 102104	3.4	5
209	Enhanced mass transfer from the installation of a sieve tray subject to the variation of liquid heights and flow regimes in a bubble column. <i>Chemical Engineering Research and Design</i> , 2018 , 136, 654-662	5.5	6
208	Nitrogen transformations in aquaponic systems: A review. <i>Aquacultural Engineering</i> , 2017 , 76, 9-19	3	117
207	Solvent-assisted synthesis of potassium copper hexacyanoferrate embedded 3D-interconnected porous hydrogel for highly selective and rapid cesium ion removal. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 975-986	6.8	32
206	Wet in situ transesterification of microalgae using ethyl acetate as a co-solvent and reactant. <i>Bioresource Technology</i> , 2017 , 230, 8-14	11	55
205	Efficient solvothermal wet in situ transesterification of <i>Nannochloropsis gaditana</i> for biodiesel production. <i>Bioprocess and Biosystems Engineering</i> , 2017 , 40, 723-730	3.7	12
204	Enhanced catalytic activity of methane dry reforming by the confinement of Ni nanoparticles into mesoporous silica. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11270-11282	6.7	39
203	Dynamic of consumer groups and response of commodity markets by principal component analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 482, 337-344	3.3	12
202	On the Performance of Beam Division Nonorthogonal Multiple Access for FDD-Based Large-Scale Multi-User MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 5077-5089	9.6	18
201	Efficient pressure swing adsorption for improving H ₂ recovery in precombustion CO ₂ capture. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 1763-1773	2.8	8

200	In-situ boron and nitrogen doping in flue gas derived carbon materials for enhanced oxygen reduction reaction. <i>Journal of CO2 Utilization</i> , 2017 , 20, 73-80	7.6	18
199	Enhanced methane hydrate formation with cyclopentane hydrate seeds. <i>Applied Energy</i> , 2017 , 202, 32-41	10.7	52
198	Systemic risk and hierarchical transitions of financial networks. <i>Chaos</i> , 2017 , 27, 063107	3.3	7
197	Changes of hierarchical network in local and world stock market. <i>Journal of the Korean Physical Society</i> , 2017 , 71, 444-451	0.6	4
196	Organically modified clay with potassium copper hexacyanoferrate for enhanced Cs+ adsorption capacity and selective recovery by flotation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15130-15143	13	47
195	Catalyst-free production of alkyl esters from microalgae via combined wet in situ transesterification and hydrothermal liquefaction (iTHL). <i>Bioresource Technology</i> , 2017 , 244, 423-432	11	20
194	Enhanced adsorption capacity and selectivity towards strontium ions in aqueous systems by sulfonation of CO2 derived porous carbon. <i>RSC Advances</i> , 2017 , 7, 54546-54553	3.7	25
193	Molybdenum oxide/carbon composites derived from the CO2 oxidation of Mo2CTx (MXene) for lithium ion battery anodes. <i>Electrochimica Acta</i> , 2017 , 258, 979-987	6.7	53
192	Levulinate production from algal cell hydrolysis using in situ transesterification. <i>Algal Research</i> , 2017 , 26, 431-435	5	27
191	Highly effective Cs removal by turbidity-free potassium copper hexacyanoferrate-immobilized magnetic hydrogels. <i>Journal of Hazardous Materials</i> , 2017 , 340, 130-139	12.8	52
190	Nanostructured potassium copper hexacyanoferrate-cellulose hydrogel for selective and rapid cesium adsorption. <i>Chemical Engineering Journal</i> , 2017 , 313, 1042-1050	14.7	84
189	Phase transition of Fe2O3/NiO to NiFe2O4 in perovskite catalytic particles for enhanced methane chemical looping reforming-decomposition with CO2 conversion. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 175-183	21.8	72
188	Financial states of world financial and commodities markets around sovereign debt crisis. <i>Journal of the Korean Physical Society</i> , 2017 , 71, 733-739	0.6	2
187	Constructive Multi-User Interference for Symbol-Level Link Adaptation: MMSE Approach 2017 ,		3
186	Determination of reference enthalpies and thermal expansivity using molecular dynamic simulations in the distortion model of gas hydrates. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 3216-3221	2.8	3
185	Anti-Adhesive Behaviors between Solid Hydrate and Liquid Aqueous Phase Induced by Hydrophobic Silica Nanoparticles. <i>Langmuir</i> , 2016 , 32, 9513-22	4	17
184	A non-catalytic, supercritical methanol route for effective deacidification of naphthenic acids. <i>Fuel</i> , 2016 , 182, 650-659	7.1	17
183	Carbon dioxide conversion into boron/nitrogen dual-doped carbon as an electrode material for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016 , 210, 743-753	6.7	15

182	Boron–manganese–carbon nanocomposites synthesized from CO ₂ for electrode applications in both supercapacitors and fuel cells. <i>RSC Advances</i> , 2016 , 6, 54889-54897	3.7	9
181	Rheology of cyclopentane hydrate slurry in a model oil-continuous emulsion. <i>Rheologica Acta</i> , 2016 , 55, 235-243	2.3	36
180	Dynamic modeling of fixed-bed adsorption of flue gas using a variable mass transfer model. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 438-447	2.8	8
179	Formation of Hollow Co ₃ O ₄ Nanoparticles on Nitrogen-Doped Porous Carbons for Highly Capacitive Performance. <i>ChemistrySelect</i> , 2016 , 1, 560-566	1.8	11
178	Mesenchymal stem cell derived secretome and extracellular vesicles for acute lung injury and other inflammatory lung diseases. <i>Expert Opinion on Biological Therapy</i> , 2016 , 16, 859-71	5.4	115
177	State and group dynamics of world stock market by principal component analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 450, 85-94	3.3	11
176	Human mesenchymal stromal cells reduce influenza A H5N1-associated acute lung injury in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3621-6	11.5	123
175	Enhanced methane decomposition over nickel–carbon–B ₂ O ₃ core–shell catalysts derived from carbon dioxide. <i>Applied Catalysis B: Environmental</i> , 2016 , 186, 41-55	21.8	53
174	Equilibria of cyclopentane hydrates with varying HLB numbers of sorbitan monoesters in water-in-oil emulsions. <i>Fluid Phase Equilibria</i> , 2016 , 413, 41-47	2.5	18
173	The role of extracellular polymeric substances in reducing copper inhibition to nitrification in activated sludge. <i>Biotechnology and Bioprocess Engineering</i> , 2016 , 21, 683-688	3.1	2
172	Hierarchically porous heteroatom-doped carbon derived from flue gases for electrochemical energy storage. <i>Journal of CO₂ Utilization</i> , 2016 , 16, 420-427	7.6	8
171	Lithium-ion capacitors with 2D Nb ₂ CT _x (MXene) [carbon nanotube electrodes. <i>Journal of Power Sources</i> , 2016 , 326, 686-694	8.9	138
170	Rapid Clathrate Hydrate Formation Using a Heavy Guest Molecule with Sodium Dodecyl Sulfate. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 6079-6084	3.9	13
169	In-situ transesterification of wet spent coffee grounds for sustainable biodiesel production. <i>Bioresource Technology</i> , 2016 , 221, 55-60	11	94
168	Efficient in situ drying of low rank coal in a pressurized down-flow flash dryer. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 3401-3406	2.8	4
167	In situ transesterification of highly wet microalgae using hydrochloric acid. <i>Bioresource Technology</i> , 2015 , 185, 421-5	11	74
166	Effect of boron–nitrogen bonding on oxygen reduction reaction activity of BN Co-doped activated porous carbons. <i>RSC Advances</i> , 2015 , 5, 24661-24669	3.7	29
165	Highly porous N-doped carbons impregnated with sodium for efficient CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10919-10927	13	62

164	Effects of boron oxidation state on electrocatalytic activity of carbons synthesized from CO ₂ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5843-5849	13	20
163	Effects of Salt on the Crystal Growth and Adhesion Force of Clathrate Hydrates. <i>Energy & Fuels</i> , 2015 , 29, 4245-4254	4.1	14
162	Human Mesenchymal Stem (Stromal) Cells Promote the Resolution of Acute Lung Injury in Part through Lipoxin A4. <i>Journal of Immunology</i> , 2015 , 195, 875-81	5.3	104
161	Concurrent production of biodiesel and chemicals through wet in situ transesterification of microalgae. <i>Bioresource Technology</i> , 2015 , 193, 386-92	11	59
160	Graphical Design of Integrated Reaction and Distillation in Dividing Wall Columns. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3175-3185	3.9	15
159	Optimization of variables affecting the direct transesterification of wet biomass from <i>Nannochloropsis oceanica</i> using ionic liquid as a co-solvent. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 981-7	3.7	19
158	Effects of temperature on nitrous oxide (N ₂ O) emission from intensive aquaculture system. <i>Science of the Total Environment</i> , 2015 , 518-519, 16-23	10.2	35
157	Inhibition effects of activated carbon particles on gas hydrate formation at oil/water interfaces. <i>RSC Advances</i> , 2015 , 5, 58813-58820	3.7	19
156	Enhanced oxygen reduction from the insertion of cobalt into nitrogen-doped porous carbons. <i>RSC Advances</i> , 2015 , 5, 87971-87980	3.7	8
155	Effect of hydrogenation on performance of TiO ₂ (B) nanowire for lithium ion capacitors. <i>Electrochemistry Communications</i> , 2015 , 60, 199-203	5.1	41
154	Tuning Behaviors of Methane Inclusion in Isoxazole Clathrate Hydrates. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 278-283	2.8	7
153	Threshold network of a financial market using the P-value of correlation coefficients. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 1802-1808	0.6	6
152	Future internets escape the simulator. <i>Communications of the ACM</i> , 2015 , 58, 78-89	2.5	13
151	Structural changes in the minimal spanning tree and the hierarchical network in the Korean stock market around the global financial crisis. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 1153-1159	0.6	15
150	Therapeutic Effects of Human Mesenchymal Stem Cell-derived Microvesicles in Severe Pneumonia in Mice. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 192, 324-36	10.2	288
149	Effect of plant species on nitrogen recovery in aquaponics. <i>Bioresource Technology</i> , 2015 , 188, 92-8	11	114
148	Effects of global financial crisis on network structure in a local stock market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 407, 135-143	3.3	79
147	Supercapacitor Electrodes Derived from Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 735-740	8.3	27

146	Concurrent extraction and reaction for the production of biodiesel from wet microalgae. <i>Bioresource Technology</i> , 2014 , 152, 534-7	11	92
145	Hydrophobic particle effects on hydrate crystal growth at the water-oil interface. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 261-7	4.5	26
144	Human mesenchymal stem cell microvesicles for treatment of Escherichia coli endotoxin-induced acute lung injury in mice. <i>Stem Cells</i> , 2014 , 32, 116-25	5.8	438
143	Inclusion of thiophene as a co-guest in a structure II hydrate with methane gas. <i>RSC Advances</i> , 2014 , 4, 26176	3.7	10
142	Boron-doped carbon-iron nanocomposites as efficient oxygen reduction electrocatalysts derived from carbon dioxide. <i>Chemical Communications</i> , 2014 , 50, 6349-52	5.8	36
141	Concurrent Production of Carbon Monoxide and Manganese(II) Oxide through the Reaction of Carbon Dioxide with Manganese. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1503-1509	8.3	8
140	Human mesenchymal stem cells reduce the severity of acute lung injury in a sheep model of bacterial pneumonia. <i>Thorax</i> , 2014 , 69, 819-25	7.3	109
139	Effect of Molecular Nitrogen on Multiple Hydrogen Occupancy in Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20203-20208	3.8	12
138	Correlation and network topologies in global and local stock indices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 2482-2489	2.3	55
137	Feasible Design of Multi-component Heterogeneous Reactive Distillation. <i>Computer Aided Chemical Engineering</i> , 2014 , 34, 351-356	0.6	1
136	Feasibility Evaluation of Quinary Heterogeneous Reactive Extractive Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12387-12398	3.9	11
135	Facile Synthesis of Highly Electrocapacitive Nitrogen-Doped Graphitic Porous Carbons. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9357-9367	3.8	71
134	Cell-based therapy for acute organ injury: preclinical evidence and ongoing clinical trials using mesenchymal stem cells. <i>Anesthesiology</i> , 2014 , 121, 1099-121	4.3	101
133	Finding 9-1-1 callers in tall buildings 2014 ,		4
132	Impact of trap localization on low-frequency noise in nanoscale device. <i>Journal of Applied Physics</i> , 2014 , 115, 194501	2.5	8
131	Influence of carbohydrate addition on nitrogen transformations and greenhouse gas emissions of intensive aquaculture system. <i>Science of the Total Environment</i> , 2014 , 470-471, 193-200	10.2	56
130	Membrane Diffuser Coupled Bioreactor for Methanotrophic Denitrification under Non-aerated Condition: Suggestion as a Post-denitrification Option. <i>Environmental Engineering Research</i> , 2014 , 19, 75-81	3.6	3
129	Visualization of Stage Calculations in Quaternary Reactive Distillation with Multiple Reactions. <i>Korean Chemical Engineering Research</i> , 2014 , 52, 713-719		1

128	Boron-doped electrocatalysts derived from carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8665	13	30
127	Carbon Dioxide-Facilitated Low-Temperature Hydrogen Desorption from Polyaminoborane. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3799-3803	3.8	10
126	Therapeutic effects of human mesenchymal stem cells in ex vivo human lungs injured with live bacteria. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 187, 751-60	10.2	249
125	Carbon dioxide injection method for enhancing hydrogenotrophic denitrification of secondary wastewater effluent in fixed bed reactor. <i>Biotechnology and Bioprocess Engineering</i> , 2013 , 18, 326-332	3.1	3
124	Random matrix theory and cross-correlations in global financial indices and local stock market indices. <i>Journal of the Korean Physical Society</i> , 2013 , 62, 569-574	0.6	26
123	Electrocatalytic Activity of BN Codoped Graphene Oxide Derived from Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24167-24173	3.8	18
122	Adsorption of Gemini surfactants onto clathrate hydrates. <i>Journal of Colloid and Interface Science</i> , 2013 , 412, 1-6	9.3	18
121	Production of nitrogen-doped graphite from carbon dioxide using polyaminoborane. <i>RSC Advances</i> , 2013 , 3, 25752	3.7	8
120	Production of boron-doped porous carbon by the reaction of carbon dioxide with sodium borohydride at atmospheric pressure. <i>Carbon</i> , 2013 , 53, 216-221	10.4	46
119	Nitrogen transformations in intensive aquaculture system and its implication to climate change through nitrous oxide emission. <i>Bioresource Technology</i> , 2013 , 130, 314-20	11	41
118	Detrended fluctuation analysis and Kolmogorov-Binai entropy of electroencephalogram signals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 2542-2545	2.3	7
117	Salt effects on thermodynamic and rheological properties of hydrate forming emulsions. <i>Chemical Engineering Science</i> , 2013 , 95, 148-160	4.4	62
116	Macroscopic investigation of water volume effects on interfacial dynamic behaviors between clathrate hydrate and water. <i>Langmuir</i> , 2013 , 29, 5793-800	4	25
115	Thermodynamic and Spectroscopic Identification of Methane Inclusion in the Binary Heterocyclic Compound Hydrates. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23515-23521	3.8	12
114	Electrical properties of high density arrays of silicon nanowire field effect transistors. <i>Journal of Applied Physics</i> , 2013 , 114, 144503	2.5	6
113	Impact of compatibility on the organization of mutualistic networks. <i>Physical Review E</i> , 2013 , 88, 022804	2.4	2
112	Applications of Complex Networks on Analysis of World Trade Network. <i>Journal of Physics: Conference Series</i> , 2013 , 410, 012063	0.3	3
111	Weighted Scale-Free Network Properties of Ecological Network. <i>Journal of Physics: Conference Series</i> , 2013 , 410, 012067	0.3	2

110	Investigations of surfactant effects on gas hydrate formation via infrared spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2012 , 376, 173-6	9.3	36
109	Surfactant Effects on Hydrate Crystallization at the Water/Oil Interface: Hollow-Conical Crystals. <i>Crystal Growth and Design</i> , 2012 , 12, 3817-3824	3.5	73
108	Nitrous oxide (N ₂ O) emission from aquaculture: a review. <i>Environmental Science & Technology</i> , 2012 , 46, 6470-80	10.3	158
107	Adsorption of sodium dodecyl sulfate onto clathrate hydrates in the presence of salt. <i>Journal of Colloid and Interface Science</i> , 2012 , 386, 333-7	9.3	12
106	Formation of Graphene Oxide Nanocomposites from Carbon Dioxide Using Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2639-2644	3.8	29
105	Scaling of nestedness in complex networks. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 648-656	0.6	11
104	Self-organized criticality of a simple integrate-and-fire neural model. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 657-659	0.6	5
103	Progress and prospects in thermolytic dehydrogenation of ammonia borane for mobile applications. <i>Korean Journal of Chemical Engineering</i> , 2012 , 29, 421-431	2.8	15
102	Calorimetric investigation of cyclopentane hydrate formation in an emulsion. <i>Chemical Engineering Science</i> , 2012 , 68, 481-491	4.4	48
101	Rapid release of 1.5 equivalents of hydrogen from CO ₂ -treated ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3344-3349	6.7	9
100	Interspecific competition underlying mutualistic networks. <i>Physical Review Letters</i> , 2012 , 108, 108701	7.4	6
99	CCNxServ: Dynamic service scalability in information-centric networks 2012 ,		6
98	Short channel mobility analysis of SiGe nanowire p-type field effect transistors: Origins of the strain induced performance improvement. <i>Applied Physics Letters</i> , 2012 , 101, 143502	3.4	8
97	EFFECTS OF INTRADAY PATTERNS ON ANALYSIS OF STOCK MARKET INDEX AND TRADING VOLUME. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 16, 41-50	0.7	1
96	COMPLEX NETWORKS AND MINIMAL SPANNING TREES IN INTERNATIONAL TRADE NETWORK. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 16, 51-60	0.7	10
95	An Objective Assessment Scale for "Come-to-Sit" Using a Specifically Designed Jacket in Stroke Patients. <i>Annals of Rehabilitation Medicine</i> , 2012 , 36, 8-15	1.7	
94	Low-frequency noise in junctionless multigate transistors. <i>Applied Physics Letters</i> , 2011 , 98, 133502	3.4	45
93	CO ₂ -Enhanced Thermolytic H ₂ Release from Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8386-8392	3.8	39

92	Calorimetric and Microscopic Studies on the Noncatalytic Hydrothermolysis of Ammonia Borane. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10407-10413	3.9	11
91	The persistence probability and the price-price correlation functions in the Korean stock market. <i>Computer Physics Communications</i> , 2011 , 182, 243-244	4.2	10
90	Concise review: Mesenchymal stem cells for acute lung injury: role of paracrine soluble factors. <i>Stem Cells</i> , 2011 , 29, 913-9	5.8	298
89	Effect of Composition on Dehydrogenation of Mesoporous Silica/Ammonia Borane Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10024-10028	3.9	21
88	Rapid assembly of colloidal monolayer for the synthesis of surface anisotropic particles. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2392-7	9.5	4
87	Wealth dynamics in world trade. <i>Computer Physics Communications</i> , 2011 , 182, 216-218	4.2	8
86	An improved AFM cross-sectional method for piezoelectric nanostructures properties investigation: application to GaN nanowires. <i>Nanotechnology</i> , 2011 , 22, 105704	3.4	29
85	Asymmetric Network Properties of Bipartite Ecological Networks. <i>Journal of the Korean Physical Society</i> , 2011 , 58, 851-854	0.6	7
84	Effects of Intraday Patterns on a Time Series Analysis of the Korean Stock Market Index. <i>Journal of the Korean Physical Society</i> , 2011 , 58, 396-399	0.6	3
83	Determination of Reference Chemical Potential Using Molecular Dynamics Simulations. <i>Journal of Thermodynamics</i> , 2010 , 2010, 1-5		3
82	Advances in Gas Hydrate Thermodynamics and Transport Properties. <i>Journal of Thermodynamics</i> , 2010 , 2010, 1-2		
81	Allogeneic human mesenchymal stem cells restore epithelial protein permeability in cultured human alveolar type II cells by secretion of angiopoietin-1. <i>Journal of Biological Chemistry</i> , 2010 , 285, 26211-22	5.4	199
80	Low-frequency noise in strained SiGe core-shell nanowire p-channel field effect transistors. <i>Applied Physics Letters</i> , 2010 , 97, 073505	3.4	24
79	Quantitative temperature measurement of an electrically heated carbon nanotube using the null-point method. <i>Review of Scientific Instruments</i> , 2010 , 81, 114901	1.7	35
78	Regulated gene expression in cultured type II cells of adult human lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010 , 299, L36-50	5.8	43
77	Investigation of macroscopic interfacial dynamics between clathrate hydrates and surfactant solutions. <i>Langmuir</i> , 2010 , 26, 18119-24	4	45
76	Adsorption of Cationic and Anionic Surfactants on Cyclopentane Hydrates. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13385-13389	3.8	70
75	Direct measurements of contact force between clathrate hydrates and water. <i>Langmuir</i> , 2010 , 26, 9187-90		36

74	Thermal Decomposition and Spectroscopic Studies of Preheated Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19529-19534	3.8	38
73	Methane Enclathration with Sodium Dodecyl Sulfate: Effect of Cyclopentane and Two Salts on Formation Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 8267-8270	3.9	10
72	Raman Spectroscopic Studies of Surfactant Effect on the Water Structure around Hydrate Guest Molecules. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2676-2679	6.4	24
71	Degradation pattern of SnO(2) nanowire field effect transistors. <i>Nanotechnology</i> , 2010 , 21, 485201	3.4	7
70	Analysis of charge sensitivity and low frequency noise limitation in silicon nanowire sensors. <i>Journal of Applied Physics</i> , 2010 , 107, 044501	2.5	22
69	Rheology of hydrate forming emulsions. <i>Langmuir</i> , 2010 , 26, 11699-704	4	53
68	Mesenchymal stem cells for acute lung injury: preclinical evidence. <i>Critical Care Medicine</i> , 2010 , 38, S569-73	7.3	129
67	Competitive adsorption between SDS and carbonate on tetrahydrofuran hydrates. <i>Journal of Colloid and Interface Science</i> , 2010 , 341, 286-8	9.3	46
66	Persistent and Survival Properties in a Stock Market Index. <i>Journal of the Korean Physical Society</i> , 2010 , 56, 940-942	0.6	2
65	Patterns of international trades and nation's wealth. <i>Journal of the Korean Physical Society</i> , 2010 , 56, 998-1002	0.6	8
64	Mesenchymal Stem Cells for Acute Lung Injury 2010 , 121-140		
63	AVALANCHES OF BAKBNEPPEN COEVOLUTION MODEL ON DIRECTED SCALE-FREE NETWORK. <i>Fractals</i> , 2009 , 17, 233-237	3.2	2
62	DataNet: An emerging cyberinfrastructure for sharing, reusing and preserving digital data for scientific discovery and learning. <i>AIChE Journal</i> , 2009 , 55, 2757-2764	3.6	13
61	Coevolutionary extremal dynamics on gasket fractal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 4260-4263	2.3	2
60	Fluctuations of trading volume in a stock market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 863-868	3.3	9
59	Thermodynamic analysis of hydrate-based pre-combustion capture of CO ₂ . <i>Chemical Engineering Science</i> , 2009 , 64, 4732-4736	4.4	121
58	Inhibition Effect of Surfactants on CO ₂ Enclathration with Cyclopentane in an Unstirred Batch Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 4703-4709	3.9	17
57	Effect of Sodium Dodecyl Sulfate on the Supercooling Point of Ice and Clathrate Hydrates. <i>Energy & Fuels</i> , 2009 , 23, 3045-3047	4.1	9

56	Adsorption of Kinetic Inhibitors on Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17418-17420	3.8	43
55	beta2 adrenergic agonists in acute lung injury? The heart of the matter. <i>Critical Care</i> , 2009 , 13, 1011	10.8	6
54	Enhanced Kinetics of CO ₂ Hydrate Formation under Static Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 5934-5942	3.9	63
53	Equilibrium of Hydrogen + Cyclopentane and Carbon Dioxide + Cyclopentane Binary Hydrates. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 659-661	2.8	122
52	Potential application of mesenchymal stem cells in acute lung injury. <i>Expert Opinion on Biological Therapy</i> , 2009 , 9, 1259-70	5.4	113
51	Allogeneic human mesenchymal stem cells for treatment of E. coli endotoxin-induced acute lung injury in the ex vivo perfused human lung. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16357-62	11.5	562
50	NetServ 2009 ,		8
49	Structure of Mutualistic Complex Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2009 , 954-959	0.2	1
48	Solubility of CO ₂ , N ₂ , and CO ₂ + N ₂ Gas Mixtures in Isooctane. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1321-1324	2.8	11
47	Adsorption of Sodium Dodecyl Sulfate at THF Hydrate/Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12381-12385	3.8	73
46	Adsorption of surfactants on two different hydrates. <i>Langmuir</i> , 2008 , 24, 12723-6	4	47
45	Estimation of Still Trajectory for Batch Reactive Distillation Systems. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3930-3936	3.9	7
44	Reply to Comments by J.-N. Jaubert and S. Vitu on J. Chem. Eng. Data 2008, 53, 1321-1324. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2002-2002	2.8	1
43	Solubility of Sodium Dodecyl Sulfate near Propane and Carbon Dioxide Hydrate-Forming Conditions. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2480-2483	2.8	17
42	Complex networks in a stock market. <i>Computer Physics Communications</i> , 2007 , 177, 186	4.2	17
41	Power law of quiet time distribution in the Korean stock-market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 377, 576-582	3.3	9
40	Probability distribution function and multiscaling properties in the Korean stock market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 383, 65-70	3.3	36
39	Power law in firms bankruptcy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 361, 6-8	2.3	15

38	Does SDS micellize under methane hydrate-forming conditions below the normal Krafft point?. <i>Journal of Colloid and Interface Science</i> , 2007 , 315, 313-8	9.3	71
37	Acute lung injury edema fluid decreases net fluid transport across human alveolar epithelial type II cells. <i>Journal of Biological Chemistry</i> , 2007 , 282, 24109-19	5.4	69
36	Intrapulmonary delivery of bone marrow-derived mesenchymal stem cells improves survival and attenuates endotoxin-induced acute lung injury in mice. <i>Journal of Immunology</i> , 2007 , 179, 1855-63	5.3	722
35	A Miniature Condenser Microphone for Portable Terminals Applications 2007 ,		1
34	Physiological and biochemical markers of alveolar epithelial barrier dysfunction in perfused human lungs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 293, L52-9	5.8	94
33	Polymer structure modifications for immersion leaching control 2007 ,		5
32	Modified polymer architecture for immersion lithography 2007 ,		2
31	Kinetics of Methane Hydrate Formation from SDS Solution. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 6353-6359	3.9	200
30	Methane Hydrate Equilibrium and Formation Kinetics in the Presence of an Anionic Surfactant. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4734-4739	3.8	47
29	Feasible products in complex batch reactive distillation. <i>AIChE Journal</i> , 2006 , 52, 1790-1805	3.6	20
28	Excess Gibbs potential model for multicomponent hydrogen clathrates. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 26122-8	3.4	23
27	Prediction of hydrogen hydrate equilibrium by integrating ab initio calculations with statistical thermodynamics. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2332-7	3.4	18
26	Multifractal behavior of the Korean stock-market index KOSPI. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 364, 355-361	3.3	41
25	Intensification of Reaction and V-L Separation in Batch Systems. <i>ACS Symposium Series</i> , 2005 , 393-405	0.4	1
24	Rapid generation of composition profiles for reactive and extractive cascades. <i>AIChE Journal</i> , 2005 , 51, 922-930	3.6	7
23	Nitric oxide decreases surfactant protein gene expression in primary cultures of type II pneumocytes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005 , 288, L950-7	5.8	13
22	Increased pulmonary blood flow does not alter surfactant protein gene expression in lambs within the first week of life. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004 , 286, L1237-43	5.8	5
21	Feasible products in batch reactive extractive distillation. <i>AIChE Journal</i> , 2004 , 50, 1484-1492	3.6	15

20	Feasibility of Continuous Reactive Distillation with Azeotropic Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 3758-3769	3.9	15
19	Analysis of single-layered multiconductor transmission lines using the Fourier transform and mode-matching techniques. <i>Microwave and Optical Technology Letters</i> , 2003 , 36, 315-317	1.2	7
18	Shortcut method for kinetically controlled reactive distillation systems. <i>AIChE Journal</i> , 2003 , 49, 1471-1487	3.9	17
17	Feasible products in batch reactive distillation. <i>AIChE Journal</i> , 2003 , 49, 3161-3172	3.6	19
16	Diffusion-limited reaction in the presence of random fields and transition rates. <i>Journal of Chemical Physics</i> , 2002 , 117, 7864-7871	3.9	1
15	Feasibility Studies on Quaternary Reactive Distillation Systems. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 4632-4642	3.9	16
14	Graphical design applied to MTBE and methyl acetate reactive distillation processes. <i>AIChE Journal</i> , 2001 , 47, 1333-1345	3.6	38
13	Feasibility of a Reactive Distillation Column with Ternary Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 2714-2728	3.9	15
12	Graphical methods for reaction distribution in a reactive distillation column. <i>AIChE Journal</i> , 2000 , 46, 1218-1233	3.6	51
11	Extreme conditions in binary reactive distillation. <i>AIChE Journal</i> , 2000 , 46, 2225-2236	3.6	10
10	Difference points in extractive and reactive cascades. II Generating design alternatives by the lever rule for reactive systems. <i>Chemical Engineering Science</i> , 2000 , 55, 3161-3174	4.4	31
9	Visualization of stage calculations in ternary reacting mixtures. <i>Computers and Chemical Engineering</i> , 2000 , 24, 639-644	4	15
8	Synthesis of distillation-based processes for non-ideal mixtures. <i>Computers and Chemical Engineering</i> , 2000 , 24, 2043-2054	4	12
7	Dimensional crossover of diffusion-limited reaction in a quasi-one-dimensional lattice. <i>Journal of Chemical Physics</i> , 2000 , 113, 9702-9705	3.9	4
6	Circumventing an Azeotrope in Reactive Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 1061-1063	3.9	24
5	Application of adaptive control with rule-bases to cell recycled continuous bioreactor for ethanol production. <i>Korean Journal of Chemical Engineering</i> , 1994 , 11, 119-126	2.8	6
4	TiO ₂ /Carbon Nanosheets Derived from Delaminated Ti ₃ C ₂ -MXenes as an Ultralong-Lifespan Anode Material in Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2102375	4.6	2
3	Temperature driven internal heat integration in an energy-efficient partial double annular column. <i>Korean Journal of Chemical Engineering</i> , 1	2.8	1

2	Enhanced Morphological Preservation and Redox Activity in Al-Incorporated NiFe ₂ O ₄ for Chemical Looping Hydrogen Production. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	2
1	Synthesis of heat-integrated pressure-swing azeotropic distillation using a graphical pinch analysis. <i>AICHE Journal</i> ,e17476	3.6	1