

Jae W Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6585536/publications.pdf>

Version: 2024-02-01

326
papers

13,156
citations

26610

56
h-index

31818

101
g-index

328
all docs

328
docs citations

328
times ranked

11942
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 1855-1863.	0.4	836
2	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, 16357-16362.	3.3	653
3	Human Mesenchymal Stem Cell Microvesicles for Treatment of <i>Escherichia coli</i> Endotoxin-Induced Acute Lung Injury in Mice. <i>Stem Cells</i> , 2014, 32, 116-125.	1.4	550
4	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, 324-336.	2.5	392
5	Concise Review: Mesenchymal Stem Cells for Acute Lung Injury: Role of Paracrine Soluble Factors. <i>Stem Cells</i> , 2011, 29, 913-919.	1.4	355
6	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, 751-760.	2.5	313
7	Kinetics of Methane Hydrate Formation from SDS Solution. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6353-6359.	1.8	250
8	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, 26211-26222.	1.6	230
9	Nitrous Oxide (N ₂ O) Emission from Aquaculture: A Review. <i>Environmental Science & Technology</i> , 2012, 46, 6470-6480.	4.6	227
10	Lithium-ion capacitors with 2D Nb ₂ CTx (MXene) carbon nanotube electrodes. <i>Journal of Power Sources</i> , 2016, 326, 686-694.	4.0	175
11	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, 3621-3626.	3.3	174
12	Nitrogen transformations in aquaponic systems: A review. <i>Aquacultural Engineering</i> , 2017, 76, 9-19.	1.4	174
13	Effect of plant species on nitrogen recovery in aquaponics. <i>Bioresource Technology</i> , 2015, 188, 92-98.	4.8	161
14	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, 859-871.	1.4	156
15	Mesenchymal stem cells for acute lung injury: Preclinical evidence. <i>Critical Care Medicine</i> , 2010, 38, S569-S573.	0.4	144
16	Equilibrium of Hydrogen + Cyclopentane and Carbon Dioxide + Cyclopentane Binary Hydrates. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 659-661.	1.0	140
17	Thermodynamic analysis of hydrate-based pre-combustion capture of CO_2 . <i>Chemical Engineering Science</i> , 2009, 64, 4732-4736.	1.9	134
18	Human mesenchymal stem cells reduce the severity of acute lung injury in a sheep model of bacterial pneumonia. <i>Thorax</i> , 2014, 69, 819-825.	2.7	133

#	ARTICLE	IF	CITATIONS
19	Human Mesenchymal Stem (Stromal) Cells Promote the Resolution of Acute Lung Injury in Part through Lipoxin A ₄ . <i>Journal of Immunology</i> , 2015, 195, 875-881.	0.4	132
20	Potential application of mesenchymal stem cells in acute lung injury. <i>Expert Opinion on Biological Therapy</i> , 2009, 9, 1259-1270.	1.4	131
21	Cell-based Therapy for Acute Organ Injury. <i>Anesthesiology</i> , 2014, 121, 1099-1121.	1.3	127
22	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.	5.1	126
23	In-situ transesterification of wet spent coffee grounds for sustainable biodiesel production. <i>Bioresource Technology</i> , 2016, 221, 55-60.	4.8	113
24	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-L59.	1.3	106
25	Concurrent extraction and reaction for the production of biodiesel from wet microalgae. <i>Bioresource Technology</i> , 2014, 152, 534-537.	4.8	104
26	Nanostructured potassium copper hexacyanoferrate-cellulose hydrogel for selective and rapid cesium adsorption. <i>Chemical Engineering Journal</i> , 2017, 313, 1042-1050.	6.6	104
27	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.	1.2	103
28	Phase transition of Fe ₂ O ₃ •NiO to NiFe ₂ O ₄ in perovskite catalytic particles for enhanced methane chemical looping reforming-decomposition with CO ₂ conversion. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 175-183.	10.8	98
29	In situ transesterification of highly wet microalgae using hydrochloric acid. <i>Bioresource Technology</i> , 2015, 185, 421-425.	4.8	94
30	Surfactant Effects on Hydrate Crystallization at the Water•Oil Interface: Hollow-Conical Crystals. <i>Crystal Growth and Design</i> , 2012, 12, 3817-3824.	1.4	88
31	CO ₂ -Oxidized Ti ₃ C ₂ T _x MXenes Components for Lithium•Sulfur Batteries: Suppressing the Shuttle Phenomenon through Physical and Chemical Adsorption. <i>ACS Nano</i> , 2020, 14, 9744-9754.	7.3	88
32	Adsorption of Sodium Dodecyl Sulfate at THF Hydrate/Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12381-12385.	1.5	87
33	Molybdenum oxide/carbon composites derived from the CO ₂ oxidation of Mo ₂ CT _x (MXene) for lithium ion battery anodes. <i>Electrochimica Acta</i> , 2017, 258, 979-987.	2.6	85
34	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.	0.9	84
35	Mesenchymal Stem Cell•Derived Extracellular Vesicles Decrease Lung Injury in Mice. <i>Journal of Immunology</i> , 2019, 203, 1961-1972.	0.4	81
36	Review of recent technologies for transforming carbon dioxide to carbon materials. <i>Chemical Engineering Journal</i> , 2022, 427, 130980.	6.6	79

#	ARTICLE	IF	CITATIONS
37	Facile Synthesis of Highly Electrocapacitive Nitrogen-Doped Graphitic Porous Carbons. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9357-9367.	1.5	78
38	Does SDS micellize under methane hydrate-forming conditions below the normal Krafft point?. <i>Journal of Colloid and Interface Science</i> , 2007, 315, 313-318.	5.0	77
39	Highly porous N-doped carbons impregnated with sodium for efficient CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10919-10927.	5.2	77
40	Adsorption of Cationic and Anionic Surfactants on Cyclopentane Hydrates. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13385-13389.	1.5	76
41	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.	3.9	75
42	Salt effects on thermodynamic and rheological properties of hydrate forming emulsions. <i>Chemical Engineering Science</i> , 2013, 95, 148-160.	1.9	74
43	Acute Lung Injury Edema Fluid Decreases Net Fluid Transport across Human Alveolar Epithelial Type II Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 24109-24119.	1.6	73
44	Enhanced methane hydrate formation with cyclopentane hydrate seeds. <i>Applied Energy</i> , 2017, 202, 32-41.	5.1	73
45	Enhanced Kinetics of CO ₂ Hydrate Formation under Static Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 5934-5942.	1.8	72
46	Concurrent production of biodiesel and chemicals through wet in situ transesterification of microalgae. <i>Bioresource Technology</i> , 2015, 193, 386-392.	4.8	72
47	Facile nano-templated CO ₂ conversion into highly interconnected hierarchical porous carbon for high-performance supercapacitor electrodes. <i>Carbon</i> , 2018, 126, 215-224.	5.4	71
48	Wet in situ transesterification of microalgae using ethyl acetate as a co-solvent and reactant. <i>Bioresource Technology</i> , 2017, 230, 8-14.	4.8	67
49	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.	3.4	65
50	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.	10.8	61
51	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.	3.8	61
52	Rheology of Hydrate Forming Emulsions. <i>Langmuir</i> , 2010, 26, 11699-11704.	1.6	60
53	Nitrogen transformations in intensive aquaculture system and its implication to climate change through nitrous oxide emission. <i>Bioresource Technology</i> , 2013, 130, 314-320.	4.8	60
54	Highly effective Cs ⁺ removal by turbidity-free potassium copper hexacyanoferrate-immobilized magnetic hydrogels. <i>Journal of Hazardous Materials</i> , 2017, 340, 130-139.	6.5	60

#	ARTICLE	IF	CITATIONS
55	Adsorption of Kinetic Inhibitors on Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17418-17420.	1.5	59
56	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.	5.2	59
57	Graphical methods for reaction distribution in a reactive distillation column. <i>AIChE Journal</i> , 2000, 46, 1218-1233.	1.8	58
58	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.	2.4	56
59	Investigation of Macroscopic Interfacial Dynamics between Clathrate Hydrates and Surfactant Solutions. <i>Langmuir</i> , 2010, 26, 18119-18124.	1.6	55
60	Wet in situ transesterification of spent coffee grounds with supercritical methanol for the production of biodiesel. <i>Bioresource Technology</i> , 2018, 259, 465-468.	4.8	55
61	Adsorption of Surfactants on Two Different Hydrates. <i>Langmuir</i> , 2008, 24, 12723-12726.	1.6	54
62	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.	5.4	54
63	Graphene Oxide/Carbon Nanotube Bilayer Flexible Membrane for High-Performance Li ⁺ S Batteries with Superior Physical and Electrochemical Properties. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801992.	1.9	53
64	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.	4.4	53
65	Methane Hydrate Equilibrium and Formation Kinetics in the Presence of an Anionic Surfactant. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4734-4739.	1.5	52
66	Low-frequency noise in junctionless multigate transistors. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	52
67	Calorimetric investigation of cyclopentane hydrate formation in an emulsion. <i>Chemical Engineering Science</i> , 2012, 68, 481-491.	1.9	52
68	Selective separation of cesium contaminated clays from pristine clays by flotation. <i>Chemical Engineering Journal</i> , 2019, 355, 797-804.	6.6	52
69	Competitive adsorption between SDS and carbonate on tetrahydrofuran hydrates. <i>Journal of Colloid and Interface Science</i> , 2010, 341, 286-288.	5.0	51
70	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-L50.	1.3	50
71	CO ₂ -Enhanced Thermolytic H ₂ Release from Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8386-8392.	1.5	50
72	Rheology of cyclopentane hydrate slurry in a model oil-continuous emulsion. <i>Rheologica Acta</i> , 2016, 55, 235-243.	1.1	49

#	ARTICLE	IF	CITATIONS
73	Nitrogen-rich hierarchical porous carbon paper for a free-standing cathode of lithium sulfur battery. <i>Carbon</i> , 2021, 172, 624-636.	5.4	49
74	Graphene intercalated free-standing carbon paper coated with MnO ₂ for anode materials of lithium ion batteries. <i>Electrochimica Acta</i> , 2020, 348, 136310.	2.6	48
75	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.	3.9	46
76	Effect of hydrogenation on performance of TiO ₂ (B) nanowire for lithium ion capacitors. <i>Electrochemistry Communications</i> , 2015, 60, 199-203.	2.3	46
77	Bio-Inspired Preparation of Clay- ⁺ Hexacyanoferrate Composite Hydrogels as Super Adsorbents for Cs ⁺ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33173-33185.	4.0	46
78	Investigations of surfactant effects on gas hydrate formation via infrared spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2012, 376, 173-176.	5.0	45
79	One-step formation of hydrogen clusters in clathrate hydrates stabilized via natural gas blending. <i>Energy Storage Materials</i> , 2020, 24, 655-661.	9.5	45
80	Multifractal behavior of the Korean stock-market index KOSPI. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 364, 355-361.	1.2	44
81	Direct Measurements of Contact Force between Clathrate Hydrates and Water. <i>Langmuir</i> , 2010, 26, 9187-9190.	1.6	44
82	Boron-doped carbon-iron nanocomposites as efficient oxygen reduction electrocatalysts derived from carbon dioxide. <i>Chemical Communications</i> , 2014, 50, 6349.	2.2	43
83	Graphical design applied to MTBE and methyl acetate reactive distillation processes. <i>AIChE Journal</i> , 2001, 47, 1333-1345.	1.8	42
84	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.	3.3	42
85	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.	3.1	41
86	Thermal Decomposition and Spectroscopic Studies of Preheated Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19529-19534.	1.5	40
87	Quantitative temperature measurement of an electrically heated carbon nanotube using the null-point method. <i>Review of Scientific Instruments</i> , 2010, 81, 114901.	0.6	39
88	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.	1.7	39
89	Enhanced adsorption capacity and selectivity towards strontium ions in aqueous systems by sulfonation of CO ₂ derived porous carbon. <i>RSC Advances</i> , 2017, 7, 54546-54553.	1.7	39
90	Ni-exsolved La _{1-x} CaxNiO ₃ perovskites for improving CO ₂ methanation. <i>Chemical Engineering Journal</i> , 2021, 412, 127557.	6.6	39

#	ARTICLE	IF	CITATIONS
91	Probability distribution function and multiscaling properties in the Korean stock market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 383, 65-70.	1.2	38
92	Boron-doped electrocatalysts derived from carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8665.	5.2	38
93	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.	2.2	36
94	Formation of Graphene Oxide Nanocomposites from Carbon Dioxide Using Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2639-2644.	1.5	35
95	Adsorptive removal of cesium by electrospun nanofibers embedded with potassium copper hexacyanoferrate. <i>Separation and Purification Technology</i> , 2021, 255, 117745.	3.9	35
96	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.	1.9	33
97	An improved AFM cross-sectional method for piezoelectric nanostructures properties investigation: application to GaN nanowires. <i>Nanotechnology</i> , 2011, 22, 105704.	1.3	33
98	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.	3.3	33
99	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.	2.1	32
100	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.	0.3	32
101	Supercapacitor Electrodes Derived from Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 735-740.	3.2	32
102	Levulinate production from algal cell hydrolysis using in situ transesterification. <i>Algal Research</i> , 2017, 26, 431-435.	2.4	32
103	Solvo-thermal in situ transesterification of wet spent coffee grounds for the production of biodiesel. <i>Bioresource Technology</i> , 2018, 249, 494-500.	4.8	32
104	One-pot conversion of carbon dioxide to CNT-grafted graphene bifunctional for sulfur cathode and thin interlayer of Li-S battery. <i>Electrochimica Acta</i> , 2020, 330, 135264.	2.6	32
105	Transformation of carbon dioxide into carbon nanotubes for enhanced ion transport and energy storage. <i>Nanoscale</i> , 2020, 12, 7822-7833.	2.8	32
106	Macroscopic Investigation of Water Volume Effects on Interfacial Dynamic Behaviors between Clathrate Hydrate and Water. <i>Langmuir</i> , 2013, 29, 5793-5800.	1.6	31
107	State and Network Structures of Stock Markets Around the Global Financial Crisis. <i>Computational Economics</i> , 2018, 51, 195-210.	1.5	31
108	Role of transition metal in perovskites for enhancing selectivity of methane to syngas. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20580-20590.	3.8	29

#	ARTICLE	IF	CITATIONS
109	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.	2.5	29
110	Molecular Dynamics Simulations of Hydrophobic Nanoparticle Effects on Gas Hydrate Formation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4162-4171.	1.5	29
111	Circumventing an Azeotrope in Reactive Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 1061-1063.	1.8	28
112	Hydrophobic Particle Effects on Hydrate Crystal Growth at the Water-Oil Interface. <i>Chemistry - an Asian Journal</i> , 2014, 9, 261-267.	1.7	28
113	Clathrate nanocage reactor for the decomposition of greenhouse gas. <i>Chemical Engineering Journal</i> , 2019, 359, 1629-1634.	6.6	28
114	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.	4.2	28
115	Confined tetrahydrofuran in a superabsorbent polymer for sustainable methane storage in clathrate hydrates. <i>Chemical Engineering Journal</i> , 2021, 411, 128512.	6.6	28
116	Fundamental role of Fe-N active sites in a CO ₂ -derived ultra-porous carbon electrode for inhibiting shuttle phenomena in Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23660-23674.	5.2	28
117	Low-frequency noise in strained SiGe core-shell nanowire p-channel field effect transistors. <i>Applied Physics Letters</i> , 2010, 97, 073505.	1.5	27
118	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.	5.2	27
119	Rheology of Hydrate-Forming Emulsions Stabilized by Surfactant and Hydrophobic Silica Nanoparticles. <i>Energy & Fuels</i> , 2018, 32, 5877-5884.	2.5	27
120	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.	3.1	27
121	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.	3.8	27
122	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.	5.5	27
123	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.	4.8	26
124	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.	3.3	26
125	Mesoporous Fe ₂ O ₃ -CeO 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.	1.8	26
126	Rapid Formation of Hydrogen-Enriched Hydrocarbon Gas Hydrates under Static Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8414-8424.	3.2	26

#	ARTICLE	IF	CITATIONS
127	Complex networks in a stock market. <i>Computer Physics Communications</i> , 2007, 177, 186.	3.0	25
128	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.	3.3	25
129	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.	1.7	25
130	Excess Gibbs Potential Model for Multicomponent Hydrogen Clathrates. <i>Journal of Physical Chemistry B</i> , 2006, 110, 26122-26128.	1.2	23
131	Feasible products in complex batch reactive distillation. <i>AIChE Journal</i> , 2006, 52, 1790-1805.	1.8	23
132	Effect of Composition on Dehydrogenation of Mesoporous Silica/Ammonia Borane Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 10024-10028.	1.8	23
133	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, 981-987.	1.7	23
134	Recoverable magnetic nanoparticles as hydrate inhibitors. <i>Chemical Engineering Journal</i> , 2020, 389, 124461.	6.6	23
135	Feasible products in batch reactive distillation. <i>AIChE Journal</i> , 2003, 49, 3161-3172.	1.8	22
136	Analysis of charge sensitivity and low frequency noise limitation in silicon nanowire sensors. <i>Journal of Applied Physics</i> , 2010, 107, 044501.	1.1	22
137	Electrocatalytic Activity of BN Codoped Graphene Oxide Derived from Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24167-24173.	1.5	22
138	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.	1.4	22
139	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.	2.9	22
140	Spent coffee derived hierarchical porous carbon and its application for energy storage. <i>Journal of Porous Materials</i> , 2020, 27, 451-463.	1.3	22
141	Inhibition effects of activated carbon particles on gas hydrate formation at oil-water interfaces. <i>RSC Advances</i> , 2015, 5, 58813-58820.	1.7	21
142	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.	6.1	21
143	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.	2.6	21
144	Solubility of Sodium Dodecyl Sulfate near Propane and Carbon Dioxide Hydrate-Forming Conditions. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 2480-2483.	1.0	20

#	ARTICLE	IF	CITATIONS
145	Adsorption of Gemini surfactants onto clathrate hydrates. <i>Journal of Colloid and Interface Science</i> , 2013, 412, 1-6.	5.0	20
146	Anti-Adhesive Behaviors between Solid Hydrate and Liquid Aqueous Phase Induced by Hydrophobic Silica Nanoparticles. <i>Langmuir</i> , 2016, 32, 9513-9522.	1.6	20
147	A non-catalytic, supercritical methanol route for effective deacidification of naphthenic acids. <i>Fuel</i> , 2016, 182, 650-659.	3.4	20
148	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.	2.5	20
149	Feasibility of Continuous Reactive Distillation with Azeotropic Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 3758-3769.	1.8	19
150	Prediction of Hydrogen Hydrate Equilibrium by Integrating ab Initio Calculations with Statistical Thermodynamics. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2332-2337.	1.2	19
151	Power law in firms bankruptcy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 361, 6-8.	0.9	19
152	Effects of Salt on the Crystal Growth and Adhesion Force of Clathrate Hydrates. <i>Energy & Fuels</i> , 2015, 29, 4245-4254.	2.5	19
153	Rapid Clathrate Hydrate Formation Using a Heavy Guest Molecule with Sodium Dodecyl Sulfate. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6079-6084.	1.8	19
154	Enhanced electrocatalytic reduction of oxygen at CO ₂ -derived Fe N B-doped porous carbon. <i>Journal of CO₂ Utilization</i> , 2018, 26, 28-35.	3.3	19
155	Nitrogen Recovery via Aquaponics-Biozonics: Engineering Considerations and Perspectives. <i>ACS ES&T Engineering</i> , 2021, 1, 326-339.	3.7	19
156	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> , 2021, 9, 14800-14810.	3.2	19
157	Shortcut method for kinetically controlled reactive distillation systems. <i>AIChE Journal</i> , 2003, 49, 1471-1487.	1.8	18
158	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.	1.8	18
159	Progress and prospects in thermolytic dehydrogenation of ammonia borane for mobile applications. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 421-431.	1.2	18
160	Effect of Molecular Nitrogen on Multiple Hydrogen Occupancy in Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20203-20208.	1.5	18
161	Graphical Design of Integrated Reaction and Distillation in Dividing Wall Columns. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3175-3185.	1.8	18
162	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.	2.6	18

#	ARTICLE	IF	CITATIONS
163	Reverse Water-Gas Shift Chemical Looping Using a Core-Shell Structured Perovskite Oxygen Carrier. <i>Energies</i> , 2020, 13, 5324.	1.6	18
164	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.	4.8	18
165	Electrochemically-assisted removal of cadmium ions by redox active Cu-based metal-organic framework. <i>Chemical Engineering Journal</i> , 2021, 421, 129765.	6.6	18
166	Feasibility Studies on Quaternary Reactive Distillation Systems. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 4632-4642.	1.8	17
167	Feasible products in batch reactive extractive distillation. <i>AIChE Journal</i> , 2004, 50, 1484-1492.	1.8	17
168	DataNet: An emerging cyberinfrastructure for sharing, reusing and preserving digital data for scientific discovery and learning. <i>AIChE Journal</i> , 2009, 55, 2757-2764.	1.8	17
169	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.	0.3	17
170	Efficient solvothermal wet in situ transesterification of <i>Nannochloropsis gaditana</i> for biodiesel production. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 723-730.	1.7	17
171	Feasibility of a Reactive Distillation Column with Ternary Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 2714-2728.	1.8	16
172	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	16
173	Thermodynamic and Spectroscopic Identification of Methane Inclusion in the Binary Heterocyclic Compound Hydrates. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23515-23521.	1.5	16
174	Future internets escape the simulator. <i>Communications of the ACM</i> , 2015, 58, 78-89.	3.3	16
175	Multiple transesterifications in a reactive dividing wall column integrated with a heat pump. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 954-964.	1.2	16
176	Electrosorption of cadmium ions in aqueous solutions using a copper-gallate metal-organic framework. <i>Chemosphere</i> , 2022, 286, 131853.	4.2	16
177	Visualization of stage calculations in ternary reacting mixtures. <i>Computers and Chemical Engineering</i> , 2000, 24, 639-644.	2.0	15
178	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-L957.	1.3	15
179	Adsorption of sodium dodecyl sulfate onto clathrate hydrates in the presence of salt. <i>Journal of Colloid and Interface Science</i> , 2012, 386, 333-337.	5.0	15
180	Impact of trap localization on low-frequency noise in nanoscale device. <i>Journal of Applied Physics</i> , 2014, 115, 194501.	1.1	15

#	ARTICLE	IF	CITATIONS
181	Tuning Behaviors of Methane Inclusion in Isoxazole Clathrate Hydrates. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 278-283.	1.0	15
182	Hierarchically porous heteroatom-doped carbon derived from flue gases for electrochemical energy storage. <i>Journal of CO2 Utilization</i> , 2016, 16, 420-427.	3.3	15
183	Self-Powered Autonomous Wireless Sensor Node by Using Silicon-Based 3D Thermoelectric Energy Generator for Environmental Monitoring Application. <i>Energies</i> , 2020, 13, 674.	1.6	15
184	Low temperature CO2 conversion facilitated by the preserved morphology of metal oxide-perovskite composite. <i>Chemical Engineering Journal</i> , 2022, 437, 135151.	6.6	15
185	Carbon dioxide splitting and hydrogen production using a chemical looping concept: A review. <i>Journal of CO2 Utilization</i> , 2022, 63, 102139.	3.3	15
186	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.	1.8	14
187	Carbon Dioxide-Facilitated Low-Temperature Hydrogen Desorption from Polyaminoborane. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3799-3803.	1.5	14
188	Feasibility Evaluation of Quinary Heterogeneous Reactive Extractive Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12387-12398.	1.8	14
189	Energy-Efficient Reactive Dividing Wall Column for Simultaneous Esterification of <i>n</i> -Amyl Alcohol and <i>n</i> -Hexanol. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8206-8219.	1.8	14
190	Synthesis of distillation-based processes for non-ideal mixtures. <i>Computers and Chemical Engineering</i> , 2000, 24, 2043-2054.	2.0	13
191	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.	1.2	13
192	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.	1.8	13
193	Y2O3-Inserted Co-Pd/zeolite catalysts for reductive amination of polypropylene glycol. <i>Applied Catalysis A: General</i> , 2018, 568, 114-122.	2.2	13
194	Agent-Based Models in Social Physics. <i>Journal of the Korean Physical Society</i> , 2018, 72, 1272-1280.	0.3	13
195	Enhanced Energy Savings from Simultaneous Triple Esterification of C4-C6 Alcohols in a Single Reactive Distillation Column. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1966-1978.	1.8	13
196	Hydrate seeding effect on the metastability of CH4 hydrate. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 341-349.	1.2	13
197	Electrostatic self-assembly of 2-dimensional MXene-wrapped sulfur composites for enhancing cycle performance of lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2022, 402, 139539.	2.6	13
198	Exploring tuning phenomena of THF-H2 hydrates via molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2022, 349, 118490.	2.3	13

#	ARTICLE	IF	CITATIONS
199	Solubility of CO ₂ , N ₂ , and CO ₂ + N ₂ Gas Mixtures in Isooctane. Journal of Chemical & Engineering Data, 2008, 53, 1321-1324.	1.0	12
200	Calorimetric and Microscopic Studies on the Noncatalytic Hydrothermolysis of Ammonia Borane. Industrial & Engineering Chemistry Research, 2011, 50, 10407-10413.	1.8	12
201	Wealth dynamics in world trade. Computer Physics Communications, 2011, 182, 216-218.	3.0	12
202	Rapid release of 1.5 equivalents of hydrogen from CO ₂ -treated ammonia borane. International Journal of Hydrogen Energy, 2012, 37, 3344-3349.	3.8	12
203	Inclusion of thiophene as a co-guest in a structure II hydrate with methane gas. RSC Advances, 2014, 4, 26176.	1.7	12
204	Boron-manganese-carbon nanocomposites synthesized from CO ₂ for electrode applications in both supercapacitors and fuel cells. RSC Advances, 2016, 6, 54889-54897.	1.7	12
205	State and group dynamics of world stock market by principal component analysis. Physica A: Statistical Mechanics and Its Applications, 2016, 450, 85-94.	1.2	12
206	Evaluating isotherm models for the prediction of flue gas adsorption equilibrium and dynamics. Korean Journal of Chemical Engineering, 2018, 35, 734-743.	1.2	12
207	Entrainer effect of n-hexanol reactant on coproducing n-butyl and n-hexyl acetate in energy-efficient reactive distillation. Chemical Engineering and Processing: Process Intensification, 2020, 154, 108048.	1.8	12
208	NetServ. , 2009, , .		12
209	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. Journal of CO ₂ Utilization, 2022, 56, 101845.	3.3	12
210	Power law of quiet time distribution in the Korean stock-market. Physica A: Statistical Mechanics and Its Applications, 2007, 377, 576-582.	1.2	11
211	The persistence probability and the price-price correlation functions in the Korean stock market. Computer Physics Communications, 2011, 182, 243-244.	3.0	11
212	CCNxServ: Dynamic service scalability in information-centric networks. , 2012, , .		11
213	Scaling of nestedness in complex networks. Journal of the Korean Physical Society, 2012, 60, 648-656.	0.3	11
214	Concurrent Production of Carbon Monoxide and Manganese(II) Oxide through the Reaction of Carbon Dioxide with Manganese. ACS Sustainable Chemistry and Engineering, 2014, 2, 1503-1509.	3.2	11
215	Formation of Hollow Co ₃ O ₄ Nanoparticles on Nitrogen-doped Porous Carbons for Highly Capacitive Performance. ChemistrySelect, 2016, 1, 560-566.	0.7	11
216	Modeling and experiment of gas desorption of bubble column with an external loop in the heterogeneous flow regime. Korean Journal of Chemical Engineering, 2019, 36, 1680-1687.	1.2	11

#	ARTICLE	IF	CITATIONS
217	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.	1.8	11
218	Patterns of international trades and nation's wealth. <i>Journal of the Korean Physical Society</i> , 2010, 56, 998-1002.	0.3	11
219	Energy efficient design through structural variations of complex heat-integrated azeotropic distillation of acetone-chloroform-water system. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 306-319.	2.9	11
220	Extreme conditions in binary reactive distillation. <i>AIChE Journal</i> , 2000, 46, 2225-2236.	1.8	10
221	Fluctuations of trading volume in a stock market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 863-868.	1.2	10
222	Effect of Sodium Dodecyl Sulfate on the Supercooling Point of Ice and Clathrate Hydrates. <i>Energy & Fuels</i> , 2009, 23, 3045-3047.	2.5	10
223	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.	1.2	10
224	Systemic risk and hierarchical transitions of financial networks. <i>Chaos</i> , 2017, 27, 063107.	1.0	10
225	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.	1.8	10
226	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.	1.8	10
227	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.	2.4	10
228	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.	3.3	10
229	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.	2.6	10
230	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> , 2022, 9, .	1.9	10
231	β ₂ adrenergic agonists in acute lung injury? The heart of the matter. <i>Critical Care</i> , 2009, 13, 1011.	2.5	9
232	Detrended fluctuation analysis and Kolmogorov–Sinai entropy of electroencephalogram signals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 2542-2545.	0.9	9
233	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.	0.3	9
234	Enhanced oxygen reduction from the insertion of cobalt into nitrogen-doped porous carbons. <i>RSC Advances</i> , 2015, 5, 87971-87980.	1.7	9

#	ARTICLE	IF	CITATIONS
235	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.	2.7	9
236	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.	1.3	9
237	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.	0.9	8
238	Rapid generation of composition profiles for reactive and extractive cascades. <i>AIChE Journal</i> , 2005, 51, 922-930.	1.8	8
239	Degradation pattern of SnO ₂ nanowire field effect transistors. <i>Nanotechnology</i> , 2010, 21, 485201.	1.3	8
240	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.	1.5	8
241	Production of nitrogen-doped graphite from carbon dioxide using polyaminoborane. <i>RSC Advances</i> , 2013, 3, 25752.	1.7	8
242	Electrical properties of high density arrays of silicon nanowire field effect transistors. <i>Journal of Applied Physics</i> , 2013, 114, 144503.	1.1	8
243	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.	1.2	8
244	Super steep-switching (SS $\hat{=}$ 2 mV/decade) phase-FinFET with Pb(Zr _{0.52} Ti _{0.48})O ₃ threshold switching device. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	8
245	Enhanced ethyl levulinate production from citrus peels through an in-situ hydrothermal reaction. <i>Bioresource Technology Reports</i> , 2018, 2, 84-87.	1.5	8
246	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.	1.5	8
247	Prediction of Main Regime Transition with Variations of Gas and Liquid Phases in a Bubble Column. <i>ACS Omega</i> , 2019, 4, 1329-1343.	1.6	8
248	Avalanche size distribution of an integrate-and-fire neural model on complex networks. <i>Chaos</i> , 2020, 30, 063118.	1.0	8
249	Unfavorable energy integration of reactive dividing wall column for simultaneous esterification reactions. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 195-203.	1.2	8
250	Sustainable Hydrogen Production from Water Splitting on a Co ₃ O ₄ @LaCoO ₃ Core-Shell Redox Catalyst. <i>ACS Applied Energy Materials</i> , 2022, 5, 8437-8442.	2.5	8
251	Reversible electro-mediated cesium ion removal using a zeolitic imidazolate framework derived zinc hexacyanoferrate composite. <i>Chemical Engineering Journal</i> , 2022, 450, 138029.	6.6	8
252	Estimation of Still Trajectory for Batch Reactive Distillation Systems. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 3930-3936.	1.8	7

#	ARTICLE	IF	CITATIONS
253	Energy-Efficient Design of a Novel Double Annular Separation Column Using Pinch Pressure. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14398-14409.	1.8	7
254	Structure and dynamics of financial networks by feature ranking method. <i>Scientific Reports</i> , 2021, 11, 17618.	1.6	7
255	Asymmetric Network Properties of Bipartite Ecological Networks. <i>Journal of the Korean Physical Society</i> , 2011, 58, 851-854.	0.3	7
256	Temperature driven internal heat integration in an energy-efficient partial double annular column. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 263-274.	1.2	7
257	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.	3.9	7
258	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.	1.2	6
259	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-L1243.	1.3	6
260	Polymer structure modifications for immersion leaching control. , 2007, , .		6
261	Interspecific Competition Underlying Mutualistic Networks. <i>Physical Review Letters</i> , 2012, 108, 108701.	2.9	6
262	Self-organized criticality of a simple integrate-and-fire neural model. <i>Journal of the Korean Physical Society</i> , 2012, 60, 657-659.	0.3	6
263	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.	3.0	6
264	Synthesis of heat-integrated pressure-swing azeotropic distillation using a graphical pinch analysis. <i>AIChE Journal</i> , 2022, 68, e17476.	1.8	6
265	Improved H ₂ utilization by Pd doping in cobalt catalysts for reductive amination of polypropylene glycol. <i>RSC Advances</i> , 2020, 10, 45159-45169.	1.7	6
266	Temperature-swing transesterification for the coproduction of biodiesel and ethyl levulinate from spent coffee grounds. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 2754-2763.	1.2	6
267	Dimensional crossover of diffusion-limited reaction in a quasi-one-dimensional lattice. <i>Journal of Chemical Physics</i> , 2000, 113, 9702-9705.	1.2	5
268	Rapid Assembly of Colloidal Monolayer for the Synthesis of Surface Anisotropic Particles. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2392-2397.	4.0	5
269	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.	1.4	5
270	Applications of Complex Networks on Analysis of World Trade Network. <i>Journal of Physics: Conference Series</i> , 2013, 410, 012063.	0.3	5

#	ARTICLE	IF	CITATIONS
271	Finding 9-1-1 callers in tall buildings. , 2014, , .		5
272	Is a Part Better than the Whole for Cell-based Therapy for Acute Respiratory Distress Syndrome?. Anesthesiology, 2019, 130, 683-685.	1.3	5
273	Temperature- and Pressure- induced Structural Transition of Binary Clathrate Hydrates. ChemPhysChem, 2019, 20, 429-435.	1.0	5
274	Production of levulinic acid from wet microalgae in a biphasic one-pot reaction process. Korean Journal of Chemical Engineering, 2020, 37, 1933-1941.	1.2	5
275	Effect of multiple impeller designs and configurations on the droplet size and uniformity in a 100 L scale stirred tank. Korean Journal of Chemical Engineering, 2021, 38, 1348-1357.	1.2	5
276	Application of principal component analysis on temporal evolution of COVID-19. PLoS ONE, 2021, 16, e0260899.	1.1	5
277	Highly active oxygen reduction reaction on Fe-nanoclustered hierarchical porous carbon derived from CO ₂ . Chemical Communications, 2021, 57, 13538-13541.	2.2	5
278	Modified polymer architecture for immersion lithography. , 2007, , .		4
279	Efficient in situ drying of low rank coal in a pressurized down-flow flash dryer. Korean Journal of Chemical Engineering, 2016, 33, 3401-3406.	1.2	4
280	Changes of hierarchical network in local and world stock market. Journal of the Korean Physical Society, 2017, 71, 444-451.	0.3	4
281	Thermal expansivity of ¹³ C-irradiated clathrate hydrate with intracavity conformational change. Chemical Physics Letters, 2018, 706, 14-18.	1.2	4
282	Effects of Intraday Patterns on a Time Series Analysis of the Korean Stock Market Index. Journal of the Korean Physical Society, 2011, 58, 396-399.	0.3	4
283	Parameter investigation of PEB sensitivity. , 2006, 6153, 988.		3
284	Determination of Reference Chemical Potential Using Molecular Dynamics Simulations. Journal of Thermodynamics, 2010, 2010, 1-5.	0.8	3
285	The role of extracellular polymeric substances in reducing copper inhibition to nitrification in activated sludge. Biotechnology and Bioprocess Engineering, 2016, 21, 683-688.	1.4	3
286	Determination of reference enthalpies and thermal expansivity using molecular dynamic simulations in the distortion model of gas hydrates. Korean Journal of Chemical Engineering, 2016, 33, 3216-3221.	1.2	3
287	Macrophage-derived microvesicles-™ pathogenic role in acute lung injury. Thorax, 2016, 71, 975-976.	2.7	3
288	Constructive Multi-User Interference for Symbol-Level Link Adaptation: MMSE Approach. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
289	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.	1.0	3
290	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.	1.5	3
291	A Miniature Condenser Microphone for Portable Terminals Applications. , 2007, , .		2
292	AVALANCHES OF BAK'S SNEPPEN COEVOLUTION MODEL ON DIRECTED SCALE-FREE NETWORK. <i>Fractals</i> , 2009, 17, 233-237.	1.8	2
293	Coevolutionary extremal dynamics on gasket fractal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 4260-4263.	0.9	2
294	Impact of compatibility on the organization of mutualistic networks. <i>Physical Review E</i> , 2013, 88, 022804.	0.8	2
295	Financial states of world financial and commodities markets around sovereign debt crisis. <i>Journal of the Korean Physical Society</i> , 2017, 71, 733-739.	0.3	2
296	Fractality and Multifractality in a Stock Market's Nonstationary Financial Time Series. <i>Journal of the Korean Physical Society</i> , 2020, 77, 186-196.	0.3	2
297	Persistent and Survival Properties in a Stock Market Index. <i>Journal of the Korean Physical Society</i> , 2010, 56, 940-942.	0.3	2
298	Effects of Propylene Oxide End Capping on Amination of Polyalkylene Glycols. <i>ACS Omega</i> , 2020, 5, 26545-26550.	1.6	2
299	Catalytic pyrolysis of HDPE over WO _x /Al ₂ O ₃ : Effect of tungsten content on the acidity and catalytic performance. <i>Molecular Catalysis</i> , 2022, 528, 112439.	1.0	2
300	Diffusion-limited reaction in the presence of random fields and transition rates. <i>Journal of Chemical Physics</i> , 2002, 117, 7864-7871.	1.2	1
301	Intensification of Reaction and V-L Separation in Batch Systems. <i>ACS Symposium Series</i> , 2005, , 393-405.	0.5	1
302	Protein permeability in lung injury: now in real time again?. <i>Journal of Applied Physiology</i> , 2007, 102, 508-509.	1.2	1
303	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.	1.0	1
304	Advances in Gas Hydrate Thermodynamics and Transport Properties. <i>Journal of Thermodynamics</i> , 2010, 2010, 1-2.	0.8	1
305	Experimental analysis of surface roughness scattering in FinFET devices. , 2010, , .		1
306	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

#	ARTICLE	IF	CITATIONS
307	Feasible Design of Multi-component Heterogeneous Reactive Distillation. Computer Aided Chemical Engineering, 2014, 34, 351-356.	0.3	1
308	Competition-induced increase of species abundance in mutualistic networks. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 033502.	0.9	1
309	Chaotic Dynamics of a Simple Population Model under the Allee Effect. Journal of the Korean Physical Society, 2020, 76, 533-536.	0.3	1
310	Spatial Movement Patterns and Local Co-Occurrence of Nutria Individuals in Association with Habitats Using Geo-Self-Organizing Map (Geo-SOM). Biology, 2021, 10, 598.	1.3	1
311	Invasion dynamics of a population growth model with the Allee effect in a one-dimensional patchy structure. Journal of the Korean Physical Society, 2021, 79, 499-503.	0.3	1
312	Corrigendum to "Electrochemically-assisted removal of cadmium ions by redox active Cu-based metal-organic framework" [Chem. Eng. J. 421 (2021) 129765]. Chemical Engineering Journal, 2021, 426, 130667.	6.6	1
313	Structure of Mutualistic Complex Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 954-959.	0.2	1
314	Visualization of Stage Calculations in Quaternary Reactive Distillation with Multiple Reactions. Korean Chemical Engineering Research, 2014, 52, 713-719.	0.2	1
315	Scaling Behaviors of Plant-Pollinator Mutualistic Networks. Journal of the Korean Physical Society, 2008, 53, 3151-3155.	0.3	1
316	Fundamental reaction kinetics of high-pressure reductive amination of polyalkylene glycol. Journal of Industrial and Engineering Chemistry, 2021, 106, 317-317.	2.9	1
317	Enhancement of Cooperation and Reentrant Phase of Prisoner's Dilemma Game on Signed Networks. Entropy, 2022, 24, 144.	1.1	1
318	Stability and selective extinction in complex mutualistic networks. Physical Review E, 2022, 105, 014309.	0.8	1
319	Hyaluronic acid restored protein permeability across injured human lung microvascular endothelial cells. FASEB BioAdvances, 2022, 4, 619-631.	1.3	1
320	Irreversible Sequential Adsorption of Line Segments with Diffusional Relaxation on a One-Dimensional Lattice. AIP Conference Proceedings, 2004, , .	0.3	0
321	The electrical characteristics of high density arrays of silicon nanowire field-effect transistors: Dependence on wire spacing. , 2013, , .		0
322	Weighted Scale-Free Network Properties of Ecological Network. Journal of Physics: Conference Series, 2013, 410, 012067.	0.3	0
323	High-throughput and real-time microalgae monitoring platform using lens-free shadow imaging system (LSIS). , 2015, , .		0
324	Sustainability of religious communities. PLoS ONE, 2021, 16, e0250718.	1.1	0

#	ARTICLE	IF	CITATIONS
325	Mesenchymal Stem Cells for Acute Lung Injury. , 2010, , 121-140.		0
326	An Objective Assessment Scale for "Come-to-Sit" Using a Specifically Designed Jacket in Stroke Patients. Annals of Rehabilitation Medicine, 2012, 36, 8.	0.6	0