

Hyunjung Kim

List of Publications by Year in descending order

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238
papers

7,065
citations

61984

43
h-index

91884

69
g-index

240
all docs

240
docs citations

240
times ranked

7612
citing authors

#	ARTICLE	IF	CITATIONS
1	Biotechnological recycling of hazardous waste PCBs using <i>Sulfobacillus thermosulfidooxidans</i> through pretreatment of toxicant metals: Process optimization and kinetic studies. <i>Chemosphere</i> , 2022, 286, 131978.	8.2	34
2	Investigation of Interplay between Polyvinylpyrrolidone Interlayer and Perovskite Composition Affecting the Performance of Perovskite Light Emitting Diode. <i>Advanced Electronic Materials</i> , 2022, 8, 2100568.	5.1	1
3	Recovery of Platinum-Group Metals from an Unconventional Source of Catalytic Converter Using Pressure Cyanide Leaching and Ionic Liquid Extraction. <i>Jom</i> , 2022, 74, 1020-1026.	1.9	11
4	Rapid photo aging of commercial conventional and biodegradable plastic bags. <i>Science of the Total Environment</i> , 2022, 822, 153235.	8.0	19
5	Intensive Leaching of Red Phosphor Rare Earth Metals from Waste Fluorescent Lamp: Parametric Optimization and Kinetic Studies. <i>Jom</i> , 2022, 74, 1054-1060.	1.9	6
6	Coherent X-ray Diffraction Studies of Inorganic Crystalline Nanomaterials. , 2022, , .		1
7	Environmental applications and risks of nanomaterials: An introduction to CREST publications during 2018â€“2021. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3753-3762.	12.8	16
8	A study of nanofluid stability in lowâ€“salinity water to enhance oil recovery: An extended physicochemical approach. <i>Journal of Petroleum Science and Engineering</i> , 2022, 215, 110608.	4.2	5
9	Mobilization of platinum and palladium from exhausted catalytic converters using bio-cyanide and an ionic-liquid as mass transport carriers. <i>Green Chemistry</i> , 2022, 24, 5204-5218.	9.0	26
10	Occurrence of microplastic particles in the most popular Iranian bottled mineral water brands and an assessment of human exposure. <i>Journal of Water Process Engineering</i> , 2021, 39, 101708.	5.6	71
11	Hydrometallurgical Recycling of Rare Earth Metalâ€“Cerium from Bio-processed Residual Waste of Exhausted Automobile Catalysts. <i>Jom</i> , 2021, 73, 19-26.	1.9	19
12	Colloid Interaction Energies for Surfaces with Steric Effects and Incompressible and/or Compressible Roughness. <i>Langmuir</i> , 2021, 37, 1501-1510.	3.5	20
13	Circular bioeconomy and environmental benignness through microbial recycling of e-waste: A case study on copper and gold restoration. <i>Waste Management</i> , 2021, 121, 175-185.	7.4	46
14	10.1: Invited Paper: Importance of Interface Control in Solution Processed Organic Light Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 67-70.	0.3	0
15	Liquid-liquid extraction of phosphorus from sulfuric acid solution using benzyl dimethyl amine. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 367-372.	4.9	9
16	Mobilisation of hazardous elements from arsenic-rich mine drainage ochres by three <i>Aspergillus</i> species. <i>Journal of Hazardous Materials</i> , 2021, 409, 124938.	12.4	8
17	Gold recovery from secondary waste of PCBs by electro-Cl ₂ leaching in brine solution and solvo-chemical separation with tri-butyl phosphate. <i>Journal of Cleaner Production</i> , 2021, 295, 126389.	9.3	33
18	Sustainable treatment of bimetallic (Agâ€“Pd/Î±-Al ₂ O ₃) catalyst waste from naptha cracking process: An innovative waste-to-value recycling of precious metals. <i>Journal of Environmental Management</i> , 2021, 291, 112748.	7.8	6

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19	O ₂ -enriched microbial activity with pH-sensitive solvo-chemical and electro-chlorination strategy to reclaim critical metals from the hazardous waste printed circuit boards. <i>Journal of Hazardous Materials</i> , 2021, 416, 125769.	12.4	29
20	Bioleaching of Manganese Oxides at Different Oxidation States by Filamentous Fungus <i>Aspergillus niger</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 808.	3.5	5
21	Fungal Mobilization of Selenium in the Presence of Hausmannite and Ferric Oxyhydroxides. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 810.	3.5	5
22	Efficient degradation of tetracycline by RGO@black titanium dioxide nanofluid via enhanced catalysis and photothermal conversion. <i>Science of the Total Environment</i> , 2021, 787, 147536.	8.0	30
23	Ultrafast Carrier-Induced Lattice Interactions and Interlayer Modulations of Bi ₂ Se ₃ by X-ray Free-Electron Laser Diffraction. <i>Nano Letters</i> , 2021, 21, 8554-8562.	9.1	10
24	Editorial on Special Issue "Surface Chemistry in Mineral Processing and Extractive Metallurgy". <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 13.	2.0	0
25	Strain Development of Selective Adsorption of Hydrocarbons in a Cu-ZSM-5 Crystal. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50892-50899.	8.0	3
26	Chemical Kinetics of Nanoparticles in the Emulsion State during Phase-Transfer Synthesis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26157-26166.	3.1	0
27	New insights into the flotation responses of brucite and serpentine for different conditioning times: Surface dissolution behavior. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1898-1907.	4.9	21
28	Influence of Bacterial Attachment on Arsenic Bioleaching from Mine Tailings: Dependency on the Ratio of Bacteria-Solid Substrate. , 2021, 30, 30-40.		0
29	Transport of citrate-coated silver nanoparticles in saturated porous media. <i>Environmental Geochemistry and Health</i> , 2020, 42, 1753-1766.	3.4	7
30	Electrospun hydrogen manganese oxide nanofibers as effective adsorbents for Li ⁺ recovery from seawater. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 115-123.	5.8	27
31	Transport behaviors of plastic particles in saturated quartz sand without and with biochar/Fe ₃ O ₄ -biochar amendment. <i>Water Research</i> , 2020, 169, 115284.	11.3	137
32	Liquid-Liquid Extraction and Reductive Stripping of Chromium to Valorize Industrial Effluent. <i>Jom</i> , 2020, 72, 839-846.	1.9	23
33	<i>Aspergillus niger</i> Decreases Bioavailability of Arsenic(V) via Biotransformation of Manganese Oxide into Biogenic Oxalate Minerals. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 270.	3.5	6
34	Time-resolved in situ visualization of the structural response of zeolites during catalysis. <i>Nature Communications</i> , 2020, 11, 5901.	12.8	11
35	In Situ Strain Evolution on Pt Nanoparticles during Hydrogen Peroxide Decomposition. <i>Nano Letters</i> , 2020, 20, 8541-8548.	9.1	17
36	Disinfection technology and strategies for COVID-19 hospital and bio-medical waste management. <i>Science of the Total Environment</i> , 2020, 749, 141652.	8.0	278

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37	Fungus <i>Aspergillus niger</i> Processes Exogenous Zinc Nanoparticles into a Biogenic Oxalate Mineral. <i>Journal of Fungi</i> (Basel, Switzerland), 2020, 6, 210.	3.5	7
38	13â€4: Lateâ€News Paper: Effect of Molecular Structure of Host Materials on Thermal Stability and Device Characteristics of Solution Processed OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 172-175.	0.3	1
39	Bioleaching for the Removal of Arsenic from Mine Tailings by Psychrotolerant and Mesophilic Microbes at Markedly Continental Climate Temperatures. <i>Minerals</i> (Basel, Switzerland), 2020, 10, 972.	2.0	4
40	Assessment of <i>Aspergillus niger</i> Strainâ€™s Suitability for Arsenate-Contaminated Water Treatment and Adsorbent Recycling via Bioextraction in a Laboratory-Scale Experiment. <i>Microorganisms</i> , 2020, 8, 1668.	3.6	4
41	Biotechnological recycling of critical metals from waste printed circuit boards. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2796-2810.	3.2	42
42	Shape and orientation of bare silica particles influence their deposition under intermediate ionic strength: A study with QCMâ€D and DLVO theory. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 599, 124921.	4.7	26
43	Ultrafast x-ray diffraction study of melt-front dynamics in polycrystalline thin films. <i>Science Advances</i> , 2020, 6, eaax2445.	10.3	21
44	Intensified bioleaching of chalcopyrite concentrate using adapted mesophilic culture in continuous stirred tank reactors. <i>Bioresource Technology</i> , 2020, 307, 123181.	9.6	32
45	Leaching of exhausted <sc>LNCM</sc> cathode batteries in ascorbic acid lixiviant: a green recycling approach, reaction kinetics and process mechanism. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2286-2294.	3.2	44
46	Molecular Stacking Effect on Small-Molecular Organic Light-Emitting Diodes Prepared with Solution Process. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23244-23251.	8.0	14
47	Studies of Surface and Interface Dynamics by X-Ray Photon Correlation Spectroscopy. , 2020, , 131-157.		0
48	Fungal bioextraction of iron from kaolin. <i>Chemical Papers</i> , 2019, 73, 3025-3029.	2.2	9
49	Comparison of two morphologically different fungal biomass types for experimental separation of labile aluminium species using atomic spectrometry methods. <i>Chemical Papers</i> , 2019, 73, 3019-3023.	2.2	1
50	Defect Dynamics at a Single Pt Nanoparticle during Catalytic Oxidation. <i>Nano Letters</i> , 2019, 19, 5044-5052.	9.1	20
51	Surface and Interfacial Morphology of Bulk Heterojunction Layers in Organic Solar Cells with Solvent Additive. <i>Journal of the Korean Physical Society</i> , 2019, 75, 498-502.	0.7	0
52	Interaction energies for hollow and solid cylinders: Role of aspect ratio and particle orientation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 580, 123781.	4.7	20
53	The role of cupric ions in the oxidative dissolution process of marmatite: A dependence on Cu ²⁺ concentration. <i>Science of the Total Environment</i> , 2019, 675, 213-223.	8.0	40
54	Influence of physicochemical surface properties on the adhesion of bacteria onto four types of plastics. <i>Science of the Total Environment</i> , 2019, 671, 1101-1107.	8.0	85

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55	Coherent X-ray spectroscopy reveals the persistence of island arrangements during layer-by-layer growth. <i>Nature Physics</i> , 2019, 15, 589-594.	16.7	26
56	The dissolution and passivation mechanism of chalcopyrite in bioleaching: An overview. <i>Minerals Engineering</i> , 2019, 136, 140-154.	4.3	124
57	Malachite flotation using carbon black nanoparticles as collectors: Negative impact of suspended nanoparticle aggregates. <i>Minerals Engineering</i> , 2019, 137, 19-26.	4.3	23
58	Coherence and pulse duration characterization of the PAL-XFEL in the hard X-ray regime. <i>Scientific Reports</i> , 2019, 9, 3300.	3.3	15
59	Cotransport and Deposition of Iron Oxides with Different-Sized Plastic Particles in Saturated Quartz Sand. <i>Environmental Science & Technology</i> , 2019, 53, 3547-3557.	10.0	95
60	Oxidation induced strain and defects in magnetite crystals. <i>Nature Communications</i> , 2019, 10, 703.	12.8	40
61	Flotation separation of quartz from apatite and surface forces in bubble-particle interactions: Role of pH and cationic amine collector contents. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 70, 107-115.	5.8	38
62	Effects of inorganic ions and natural organic matter on the aggregation of nanoplastics. <i>Chemosphere</i> , 2018, 197, 142-151.	8.2	174
63	Synthesis and characterization of orthorhombic-MoO ₃ nanofibers with controlled morphology and diameter. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 231-238.	5.8	20
64	Chalcopyrite Bioleaching Using Adapted Mesophilic Microorganisms: Effects of Temperature, Pulp Density, and Initial Ferrous Concentrations. <i>Materials Transactions</i> , 2018, 59, 1860-1866.	1.2	10
65	Application of Depletion Attraction in Mineral Flotation: I. Theory. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 451.	2.0	10
66	Nanoscale Strain Imaging using Coherent X-ray Light Sources. <i>Journal of the Korean Physical Society</i> , 2018, 73, 793-804.	0.7	2
67	Application of Depletion Attraction in Mineral Flotation: II. Effects of Depletant Concentration. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 450.	2.0	10
68	Influence of Nano- and Microplastic Particles on the Transport and Deposition Behaviors of Bacteria in Quartz Sand. <i>Environmental Science & Technology</i> , 2018, 52, 11555-11563.	10.0	32
69	Analysis of stability behavior of carbon black nanoparticles in ecotoxicological media: Hydrophobic and steric effects. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 554, 306-316.	4.7	38
70	Different electrically charged proteins result in diverse bacterial transport behaviors in porous media. <i>Water Research</i> , 2018, 143, 425-435.	11.3	33
71	Active site localization of methane oxidation on Pt nanocrystals. <i>Nature Communications</i> , 2018, 9, 3422.	12.8	58
72	Bioleaching of arsenopyrite from Janggun mine tailings (South Korea) using an adapted mixed mesophilic culture. <i>Hydrometallurgy</i> , 2018, 181, 21-28.	4.3	23

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73	Processable high internal phase Pickering emulsions using depletion attraction. <i>Nature Communications</i> , 2017, 8, 14305.	12.8	127
74	Stability of carboxyl-functionalized carbon black nanoparticles: the role of solution chemistry and humic acid. <i>Environmental Science: Nano</i> , 2017, 4, 800-810.	4.3	42
75	Influence of Bisphenol A on the transport and deposition behaviors of bacteria in quartz sand. <i>Water Research</i> , 2017, 121, 1-10.	11.3	32
76	Influence of graphene oxide on the transport and deposition behaviors of colloids in saturated porous media. <i>Environmental Pollution</i> , 2017, 225, 141-149.	7.5	56
77	Contributions of Nanoscale Roughness to Anomalous Colloid Retention and Stability Behavior. <i>Langmuir</i> , 2017, 33, 10094-10105.	3.5	94
78	Structure-Property Relationships of Semiconducting Polymers for Flexible and Durable Polymer Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40503-40515.	8.0	31
79	Balancing intermolecular interactions by variation of pendent alkyl chains for high performance organic photovoltaics. <i>Dyes and Pigments</i> , 2017, 137, 445-455.	3.7	6
80	Pore Structure Characterization of Shale Using Gas Physisorption: Effect of Chemical Compositions. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 66.	2.0	18
81	Relationship between Surface Characteristics and Floatability in Representative Sulfide Minerals: Role of Surface Oxidation. <i>Materials Transactions</i> , 2017, 58, 1069-1075.	1.2	16
82	Experiences and Future Challenges of Bioleaching Research in South Korea. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 45.	2.0	45
83	Processing temperature control of a diketopyrrolopyrrole-alt-thieno[2,3-b]thiophene polymer for high-mobility thin-film transistors and polymer solar cells with high open-circuit voltages. <i>Polymer</i> , 2016, 105, 79-87.	3.8	7
84	Improvement of the thermal stability of nickel silicide using a ruthenium interlayer deposited via remote plasma atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, .	2.1	1
85	Influence of excess sulfide ions on the malachite-bubble interaction in the presence of thiol-collector. <i>Separation and Purification Technology</i> , 2016, 168, 1-7.	7.9	64
86	Effect of bacteria on the transport and deposition of multi-walled carbon nanotubes in saturated porous media. <i>Environmental Pollution</i> , 2016, 213, 895-903.	7.5	25
87	Enhancement of charge transport properties of small molecule semiconductors by controlling fluorine substitution and effects on photovoltaic properties of organic solar cells and perovskite solar cells. <i>Chemical Science</i> , 2016, 7, 6649-6661.	7.4	52
88	A new rigid planar low band gap PTTDPP-DT-DTT polymer for organic transistors and performance improvement through the use of a binary solvent system. <i>Dyes and Pigments</i> , 2016, 126, 138-146.	3.7	15
89	Low-Band-Gap Polymer-Based Ambipolar Transistors and Inverters Fabricated Using a Flow-Coating Method. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13865-13872.	3.1	15
90	Flotation behaviour of malachite in mono- and di-valent salt solutions using sodium oleate as a collector. <i>International Journal of Mineral Processing</i> , 2016, 146, 38-45.	2.6	74

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91	Evaluating the Transport of <i>Bacillus subtilis</i> Spores as a Potential Surrogate for <i>Cryptosporidium parvum</i> Oocysts. <i>Environmental Science & Technology</i> , 2016, 50, 1295-1303.	10.0	18
92	Ladder-Type Silsesquioxane Copolymer Gate Dielectrics for High-Performance Organic Transistors and Inverters. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3501-3508.	3.1	24
93	Influence of Perfluorooctanoic Acid on the Transport and Deposition Behaviors of Bacteria in Quartz Sand. <i>Environmental Science & Technology</i> , 2016, 50, 2381-2388.	10.0	37
94	Design of a hard X-ray beamline and end-station for pump and probe experiments at Pohang Accelerator Laboratory X-ray Free Electron Laser facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 810, 74-79.	1.6	19
95	Transport, retention, and long-term release behavior of ZnO nanoparticle aggregates in saturated quartz sand: Role of solution pH and biofilm coating. <i>Water Research</i> , 2016, 90, 247-257.	11.3	72
96	Adaptation of a mixed culture of acidophiles for a tank biooxidation of refractory gold concentrates containing a high concentration of arsenic. <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 536-542.	2.2	43
97	Arsenic removal from contaminated soils for recycling via oil agglomerate flotation. <i>Chemical Engineering Journal</i> , 2016, 285, 207-217.	12.7	31
98	Flotation Behavior of Arsenopyrite and Pyrite, and Their Selective Separation. <i>Materials Transactions</i> , 2015, 56, 435-440.	1.2	21
99	Bacterial Inactivation by Ultrasonic Waves: Role of Ionic Strength, Humic Acid, and Temperature. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	5
100	Removal of Cadmium and Lead from Aqueous Solution by Hydroxyapatite/Chitosan Hybrid Fibrous Sorbent: Kinetics and Equilibrium Studies. <i>Journal of Chemistry</i> , 2015, 2015, 1-12.	1.9	34
101	A Surface Chemical Reaction in Organic-Inorganic Materials Using a New Chemical Evaporation System. <i>Chemistry of Materials</i> , 2015, 27, 4546-4551.	6.7	10
102	Structural and morphological tuning of dithienobenzodithiophene-core small molecules for efficient solution processed organic solar cells. <i>Dyes and Pigments</i> , 2015, 115, 23-34.	3.7	22
103	Influence of bacterial adhesion on copper extraction from printed circuit boards. <i>Separation and Purification Technology</i> , 2015, 143, 169-176.	7.9	34
104	pn-Heterojunction Effects of Perylene Tetracarboxylic Diimide Derivatives on Pentacene Field-Effect Transistor. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2025-2031.	8.0	17
105	Enhancement of Organic Photovoltaic Efficiency via Nanomorphology Control using Conjugated Polymers Incorporating Fullerene Compatible Side-Chains. <i>Macromolecules</i> , 2015, 48, 337-345.	4.8	10
106	High Performance of Low Band Gap Polymer-Based Ambipolar Transistor Using Single-Layer Graphene Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6002-6012.	8.0	26
107	Well-Balanced Carrier Mobilities in Ambipolar Transistors Based on Solution-Processable Low Band Gap Small Molecules. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16414-16423.	3.1	10
108	Transport of carboxyl-functionalized carbon black nanoparticles in saturated porous media: Column experiments and model analyses. <i>Journal of Contaminant Hydrology</i> , 2015, 177-178, 194-205.	3.3	15

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109	Influence of gravity on transport and retention of representative engineered nanoparticles in quartz sand. <i>Journal of Contaminant Hydrology</i> , 2015, 181, 153-160.	3.3	28
110	Nonlinear and complementary resistive switching behaviors of Au/Ti/TaOx/TiN devices dependent on Ti thicknesses. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, .	1.2	8
111	Bioflotation of malachite using different growth phases of <i>Rhodococcus opacus</i> : Effect of bacterial shape on detachment by shear flow. <i>International Journal of Mineral Processing</i> , 2015, 143, 98-104.	2.6	47
112	Bioleaching of arsenic from highly contaminated mine tailings using <i>Acidithiobacillus thiooxidans</i> . <i>Journal of Environmental Management</i> , 2015, 147, 124-131.	7.8	50
113	Porous Ca-based bead sorbents for simultaneous removal of SO ₂ , fine particulate matters, and heavy metals from pilot plant sewage sludge incineration. <i>Journal of Hazardous Materials</i> , 2015, 283, 44-52.	12.4	39
114	Amine-impregnated millimeter-sized spherical silica foams with hierarchical mesoporous-macroporous structure for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2015, 259, 653-662.	12.7	91
115	Influence of silicate on the transport of bacteria in quartz sand and iron mineral-coated sand. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 995-1002.	5.0	24
116	Pore Characteristics and Hydrothermal Stability of Mesoporous Silica: Role of Oleic Acid. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-8.	2.7	13
117	Polarized Raman spectroscopy of Cu-poor and Zn-rich single-crystal Cu ₂ ZnSnSe ₄ . <i>Applied Physics Letters</i> , 2014, 105, .	3.3	23
118	Influence of sulfate and phosphate on the deposition of plasmid DNA on silica and alumina-coated surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 118, 83-89.	5.0	6
119	Aggregation and dissolution of ZnO nanoparticles synthesized by different methods: Influence of ionic strength and humic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 451, 7-15.	4.7	85
120	Influence of Clay Particles on the Transport and Retention of Titanium Dioxide Nanoparticles in Quartz Sand. <i>Environmental Science & Technology</i> , 2014, 48, 7323-7332.	10.0	112
121	Alkoxyphenylthiophene Linked Benzodithiophene Based Medium Band Gap Polymers for Organic Photovoltaics: Efficiency Improvement upon Methanol Treatment Depends on the Planarity of Backbone. <i>Macromolecules</i> , 2014, 47, 7060-7069.	4.8	36
122	Surface Charge Regulation of Carboxyl Terminated Polystyrene Latex Particles and Their Interactions at the Oil/Water Interface. <i>Langmuir</i> , 2014, 30, 12164-12170.	3.5	10
123	Cotransport of multi-walled carbon nanotubes and titanium dioxide nanoparticles in saturated porous media. <i>Environmental Pollution</i> , 2014, 195, 31-38.	7.5	42
124	Directed self-assembly of organic semiconductors via confined evaporative capillary flows for use in organic field-effect transistors. <i>Organic Electronics</i> , 2014, 15, 2322-2327.	2.6	9
125	High Crystalline Dithienosilole-Cored Small Molecule Semiconductor for Ambipolar Transistor and Nonvolatile Memory. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6589-6597.	8.0	31
126	Bioleaching of highly concentrated arsenic mine tailings by <i>Acidithiobacillus ferrooxidans</i> . <i>Separation and Purification Technology</i> , 2014, 133, 291-296.	7.9	64

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127	Transport and retention behaviors of titanium dioxide nanoparticles in iron oxide-coated quartz sand: Effects of pH, ionic strength, and humic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 454, 119-127.	4.7	76
128	Synthesis and characterization of high-surface-area millimeter-sized silica beads with hierarchical multi-modal pore structure by the addition of agar. <i>Materials Characterization</i> , 2014, 90, 31-39.	4.4	19
129	Nanoscope Management of Molecular Packing and Orientation of Small Molecules by a Combination of Linear and Branched Alkyl Side Chains. <i>ACS Nano</i> , 2014, 8, 5988-6003.	14.6	52
130	Synthesis and Characterization of Mesoporous Silica from Anorthite-Clay Mineral: Role of Mechanical Activation. <i>Materials Transactions</i> , 2014, 55, 1895-1899.	1.2	4
131	Role of Chain Length and Type on the Adsorption Behavior of Cationic Surfactants and the Silica Floatability. <i>Materials Transactions</i> , 2014, 55, 1344-1349.	1.2	10
132	Modeling Microorganism Transport and Survival in the Subsurface. <i>Journal of Environmental Quality</i> , 2014, 43, 421-440.	2.0	71
133	Demonstration of Feasibility of X-Ray Free Electron Laser Studies of Dynamics of Nanoparticles in Entangled Polymer Melts. <i>Scientific Reports</i> , 2014, 4, 6017.	3.3	41
134	Coherent X-ray scattering beamline at port 9C of Pohang Light Source II. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 264-267.	2.4	9
135	Effects of siloxane nanoparticles on glass transition temperature and crystallization in PEO-LiPF ₆ polymer electrolytes. <i>Synthetic Metals</i> , 2013, 177, 110-113.	3.9	9
136	Core-shell strain structure of zeolite microcrystals. <i>Nature Materials</i> , 2013, 12, 729-734.	27.5	68
137	Correlation between Crystallinity, Charge Transport, and Electrical Stability in an Ambipolar Polymer Field-Effect Transistor Based on Poly(naphthalene-diketopyrrolopyrrole). <i>Journal of Physical Chemistry C</i> , 2013, 117, 11479-11486.	3.1	25
138	Initial transport and retention behaviors of ZnO nanoparticles in quartz sand porous media coated with <i>Escherichia coli</i> biofilm. <i>Environmental Pollution</i> , 2013, 174, 38-49.	7.5	63
139	Effect of Carbon Nanotubes on the Transport and Retention of Bacteria in Saturated Porous Media. <i>Environmental Science & Technology</i> , 2013, 47, 11537-11544.	10.0	32
140	Bactericidal mechanisms of Ag ₂ O/TNBs under both dark and light conditions. <i>Water Research</i> , 2013, 47, 1837-1847.	11.3	67
141	Influence of sulfate on the transport of bacteria in quartz sand. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 443-449.	5.0	13
142	Control of pore and window size of ceramic foams with tri-modal pore structure: Influence of agar concentration. <i>Materials Letters</i> , 2013, 110, 256-259.	2.6	15
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