

JitKang Lim

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94
papers

3,800
citations

33
h-index

60
g-index

96
ext. papers

4,370
ext. citations

6.1
avg, IF

5.73
L-index

#	Paper	IF	Citations
94	Microalgae as a sustainable energy source for biodiesel production: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 584-593	16.2	702
93	Characterization of magnetic nanoparticle by dynamic light scattering. <i>Nanoscale Research Letters</i> , 2013 , 8, 381	5	306
92	Recent progress on biomass co-pyrolysis conversion into high-quality bio-oil. <i>Bioresource Technology</i> , 2016 , 221, 645-655	11	187
91	Optimization of microalgae coagulation process using chitosan. <i>Chemical Engineering Journal</i> , 2011 , 173, 879-882	14.7	160
90	Rapid magnetophoretic separation of microalgae. <i>Small</i> , 2012 , 8, 1683-92	11	136
89	Stabilization of superparamagnetic iron oxide core-gold shell nanoparticles in high ionic strength media. <i>Langmuir</i> , 2009 , 25, 13384-93	4	111
88	Magnetophoresis of nanoparticles. <i>ACS Nano</i> , 2011 , 5, 217-26	16.7	109
87	Preparation and characterization of PVDF/TiO ₂ mixed matrix membrane via in situ colloidal precipitation method. <i>Desalination</i> , 2012 , 295, 61-69	10.3	108
86	Synthesis and Single-Particle Optical Detection of Low-Polydispersity Plasmonic-Superparamagnetic Nanoparticles. <i>Advanced Materials</i> , 2008 , 20, 1721-1726	24	94
85	Pillared montmorillonite supported ferric oxalate as heterogeneous photo-Fenton catalyst for degradation of amoxicillin. <i>Applied Catalysis A: General</i> , 2012 , 413-414, 301-309	5.1	80
84	Composite magnetic plasmonic nanoparticles for biomedicine: Manipulation and imaging. <i>Nano Today</i> , 2013 , 8, 98-113	17.9	76
83	Magnetophoretic removal of microalgae from fishpond water: Feasibility of high gradient and low gradient magnetic separation. <i>Chemical Engineering Journal</i> , 2012 , 211-212, 22-30	14.7	75
82	Crossflow microfiltration of microalgae biomass for biofuel production. <i>Desalination</i> , 2012 , 302, 65-70	10.3	75
81	Enhancing lipid productivity of <i>Chlorella vulgaris</i> using oxidative stress by TiO ₂ nanoparticles. <i>Korean Journal of Chemical Engineering</i> , 2014 , 31, 861-867	2.8	64
80	Magnetophoretic separation of microalgae: the role of nanoparticles and polymer binder in harvesting biofuel. <i>RSC Advances</i> , 2014 , 4, 4114-4121	3.7	62
79	Degradation of phenol in photo-Fenton process by phosphoric acid modified kaolin supported ferric-oxalate catalyst: Optimization and kinetic modeling. <i>Chemical Engineering Journal</i> , 2012 , 197, 181-192	14.7	62
78	Targeting dendritic cells through gold nanoparticles: A review on the cellular uptake and subsequent immunological properties. <i>Molecular Immunology</i> , 2017 , 91, 123-133	4.3	53

77	Challenges associated to magnetic separation of nanomaterials at low field gradient. <i>Separation and Purification Technology</i> , 2014 , 123, 171-174	8.3	49
76	Comparison of harvesting methods for microalgae <i>Chlorella</i> sp. and its potential use as a biodiesel feedstock. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 2244-53	2.6	49
75	Working principle and application of magnetic separation for biomedical diagnostic at high- and low-field gradients. <i>Interface Focus</i> , 2016 , 6, 20160048	3.9	48
74	Design and synthesis of magnetic nanoparticles augmented microcapsule with catalytic and magnetic bifunctionalities for dye removal. <i>Chemical Engineering Journal</i> , 2012 , 197, 350-358	14.7	44
73	The role of particle-to-cell interactions in dictating nanoparticle aided magnetophoretic separation of microalgal cells. <i>Nanoscale</i> , 2014 , 6, 12838-48	7.7	43
72	Characterization of single-core magnetite nanoparticles for magnetic imaging by SQUID relaxometry. <i>Physics in Medicine and Biology</i> , 2010 , 55, 5985-6003	3.8	43
71	Layer-by-layer assembly of iron oxide magnetic nanoparticles decorated silica colloid for water remediation. <i>Chemical Engineering Journal</i> , 2014 , 243, 68-78	14.7	42
70	Electrosteric stabilization and its role in cooperative magnetophoresis of colloidal magnetic nanoparticles. <i>Langmuir</i> , 2012 , 28, 14878-91	4	41
69	The Key Role of TNF-TNFR2 Interactions in the Modulation of Allergic Inflammation: A Review. <i>Frontiers in Immunology</i> , 2018 , 9, 2572	8.4	41
68	Agglomeration, colloidal stability, and magnetic separation of magnetic nanoparticles: collective influences on environmental engineering applications. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	40
67	Design and synthesis of plasmonic magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 78-83	2.8	40
66	Colloidal Stability and Magnetophoresis of Gold-Coated Iron Oxide Nanorods in Biological Media. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22561-22569	3.8	35
65	Magnetophoresis of iron oxide nanoparticles at low field gradient: the role of shape anisotropy. <i>Journal of Colloid and Interface Science</i> , 2014 , 421, 170-7	9.3	34
64	Chemical cleaning of a cross-flow microfiltration membrane fouled by microalgal biomass. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 233-241	5.3	34
63	Comparative exergy analyses of <i>Jatropha curcas</i> oil extraction methods: Solvent and mechanical extraction processes. <i>Energy Conversion and Management</i> , 2012 , 55, 164-171	10.6	34
62	Magnetophoresis of superparamagnetic nanoparticles at low field gradient: hydrodynamic effect. <i>Soft Matter</i> , 2015 , 11, 6968-80	3.6	33
61	Magnetophoretic separation of <i>Chlorella</i> sp.: Role of cationic polymer binder. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 515-521	5.5	32
60	On Size Fractionation of Iron Oxide Nanoclusters by Low Magnetic Field Gradient. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24042-24054	3.8	32

59	Harvesting of microalgal biomass using MF membrane: Kinetic model, CDE model and extended DLVO theory. <i>Journal of Membrane Science</i> , 2013 , 446, 341-349	9.6	32
58	Optical imaging and magnetophoresis of nanorods. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 1557-1562	2.8	30
57	Catalytic co-pyrolysis of sugarcane bagasse and waste high-density polyethylene over faujasite-type zeolite. <i>Bioresource Technology</i> , 2019 , 284, 406-414	11	29
56	Electrophoretic interactions between nitrocellulose membranes and proteins: Biointerface analysis and protein adhesion properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 110, 248-53	6	29
55	Magnetic nanoparticles augmented composite membranes in removal of organic foulant through magnetic actuation. <i>Journal of Membrane Science</i> , 2015 , 493, 134-146	9.6	27
54	Chromiumtungsten heterogeneous catalyst for esterification of palm fatty acid distillate to fatty acid methyl ester. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 54, 64-70	5.3	26
53	Unified View of Magnetic Nanoparticle Separation under Magnetophoresis. <i>Langmuir</i> , 2020 , 36, 8033-8045	15	26
52	Studies on the surface properties of mixed-matrix membrane and its antifouling properties for humic acid removal. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 3184-3192	2.9	26
51	Synthesis and size control of zeolitic imidazolate framework-8 (ZIF-8): From the perspective of reaction kinetics and thermodynamics of nucleation. <i>Materials Chemistry and Physics</i> , 2018 , 216, 393-401	14.4	22
50	Kinetic studies and thermodynamics of oil extraction and transesterification of <i>Chlorella</i> sp. for biodiesel production. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 891-7	2.6	21
49	Influences of diatom frustule morphologies on protein adsorption behavior. <i>Journal of Applied Phycology</i> , 2015 , 27, 763-775	3.2	18
48	Colorectal cancer stem cells: a review of targeted drug delivery by gold nanoparticles. <i>RSC Advances</i> , 2020 , 10, 973-985	3.7	18
47	Hydroxyl functionalized PVDFTiO ₂ ultrafiltration membrane and its antifouling properties. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	18
46	Development of high water permeability and chemically stable thin film nanocomposite (TFN) forward osmosis (FO) membrane with poly(sodium 4-styrenesulfonate) (PSS)-coated zeolitic imidazolate framework-8 (ZIF-8) for produced water treatment. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101051	6.7	18
45	Kinetics of Low Field Gradient Magnetophoresis in the Presence of Magnetically Induced Convection. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5389-5407	3.8	16
44	A Perspective Review on the Role of Nanomedicine in the Modulation of TNF-TNFR2 Axis in Breast Cancer Immunotherapy. <i>Journal of Oncology</i> , 2019 , 2019, 6313242	4.5	16
43	Fluorescent molecularly imprinted polymer based on <i>Navicula</i> sp. frustules for optical detection of lysozyme. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 2083-93	4.4	16
42	Efficacy evaluation of the antifouling magnetiteBES composite membrane through QCM-D and magnetophoretic filtration performances. <i>Separation and Purification Technology</i> , 2014 , 132, 138-148	8.3	16

41	Artificial Magnetotaxis of Microbot: Magnetophoresis versus Self-Swimming. <i>Langmuir</i> , 2018 , 34, 7971-7980	1.2	13
40	Sustainability assessment of microalgal biodiesel production processes: an exergetic analysis approach with Aspen Plus. <i>International Journal of Exergy</i> , 2012 , 10, 400	1.2	13
39	Role of Particle-Particle Interaction Towards Effective Interpretation of -Average and Particle Size Distributions from Dynamic Light Scattering (DLS) Analysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 6957-6964	1.3	12
38	Directed assembly of bifunctional silica-iron oxide nanocomposite with open shell structure. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16508-18	9.5	12
37	Chromium Tungsten Manganese oxides for synthesis of fatty acid methyl ester via esterification of palm fatty acid distillate. <i>Energy</i> , 2017 , 141, 1989-1997	7.9	11
36	Effects of dissolved organic matter and suspended solids on the magnetophoretic separation of microalgal cells from an aqueous environment. <i>Chemical Engineering Journal</i> , 2015 , 281, 523-530	14.7	10
35	Toxicity of bare and surfaced functionalized iron oxide nanoparticles towards microalgae. <i>International Journal of Phytoremediation</i> , 2016 , 18, 643-50	3.9	10
34	Liposome rupture and contents release over coplanar microelectrode arrays. <i>Journal of Colloid and Interface Science</i> , 2009 , 332, 113-21	9.3	10
33	Microfiltration of Chlorella sp.: Influence of material and membrane pore size. <i>Membrane Water Treatment</i> , 2013 , 4, 143-155		10
32	Adsorption-desorption characteristic of thermo-magneto-responsive poly(N-isopropylacrylamide)-co-acrylic acid composite hydrogel towards chromium (III) ions. <i>Journal of Water Process Engineering</i> , 2019 , 32, 100957	6.7	9
31	Optical and electron microscopy studies of Schiller layer formation and structure. <i>Journal of Colloid and Interface Science</i> , 2009 , 331, 394-400	9.3	9
30	Design of core-shell magnetic nanocomposite by using linear and branched polycation as an ad-layer: Influences of the structural and viscoelastic properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 539, 209-220	5.1	8
29	Sedimentation Kinetics of Magnetic Nanoparticle Clusters: Iron Oxide Nanospheres vs Nanorods. <i>Langmuir</i> , 2020 , 36, 5085-5095	4	7
28	Manipulating cluster size of polyanion-stabilized Fe ₃ O ₄ magnetic nanoparticle clusters via electrostatic-mediated assembly for tunable magnetophoresis behavior. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	7
27	Stability and fouling mechanism of magnetophoretic-actuated PES composite membrane in pH-dependent aqueous medium. <i>Journal of Membrane Science</i> , 2016 , 508, 40-50	9.6	7
26	Molecularly imprinted polymer layers using Navicula sp. frustule as core material for selective recognition of lysozyme. <i>Chemical Engineering Research and Design</i> , 2015 , 101, 2-14	5.5	6
25	Feasibility of Electrostatic-Mediated Post -Functionalization to Induce Long Term Colloidal Stability and Stability After Freeze Drying of Amphoteric Nanoparticles. <i>Colloids and Interface Science Communications</i> , 2018 , 23, 14-20	5.4	6
24	The Role of Cationic Coagulant-to-Cell Interaction in Dictating the Flocculation-Aided Sedimentation of Freshwater Microalgae. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 2217-2225	2.5	6

23	Enhance the Colloidal Stability of Magnetite Nanoparticles Using Poly(sodium 4-styrene sulfonate) Stabilizers. <i>Applied Mechanics and Materials</i> , 2014 , 625, 168-171	0.3	6
22	Dynamic Light Scattering: Effective Sizing Technique for Characterization of Magnetic Nanoparticles 2018 , 77-111		6
21	Motion control of biohybrid microbots under low Reynolds number environment: Magnetotaxis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 141, 107530	3.7	5
20	Investigation of Anti-fouling and UV-Cleaning Properties of PVDF/TiO Mixed-Matrix Membrane for Humic Acid Removal. <i>Membranes</i> , 2020 , 11,	3.8	5
19	Gold nanoparticles conjugated with anti-CD133 monoclonal antibody and 5-fluorouracil chemotherapeutic agent as nanocarriers for cancer cell targeting.. <i>RSC Advances</i> , 2021 , 11, 16131-16141	3.7	5
18	Facile synthesis and characterization of thermo-magneto-responsive poly(N-isopropylacrylamide)-magnetite composite hydrogel and its adsorption-desorption study on chromium (III). <i>Materials Chemistry and Physics</i> , 2018 , 218, 39-50	4.4	4
17	Study on the enhancement of colloidal stable poly(sodium 4-styrene sulfonate) coated magnetite nanoparticles and regeneration capability for rapid magnetophoretic removal of organic dye. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 3093-3104	3.5	3
16	Correlating the membrane surface energy to the organic fouling and wetting of membrane distillation at elevated temperature. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104627	6.8	3
15	Magnetophoresis of Magnetic Pickering Emulsions Under Low Field Gradient: Macroscopic and Microscopic Motion. <i>Langmuir</i> , 2021 , 37, 1811-1822	4	3
14	Effect of the colloidal stability of SF-IONPs on the performance of magnetophoretic separation of microalgae 2017 ,		2
13	Role of Temperature and pH on the Dye Degradation Using Magnetic Nanoparticles Augmented Polymeric Microcapsule. <i>Advanced Materials Research</i> , 2015 , 1113, 566-570	0.5	2
12	Design and Synthesis Silica-Polyelectrolyte-Iron Oxide Nanocomposite with Magnetic-Catalytic Bifunctionalities for Dye Removal. <i>Advanced Materials Research</i> , 2014 , 1024, 3-6	0.5	2
11	Continuous Flow Low Gradient Magnetophoresis of Magnetic Nanoparticles: Separation Kinetic Modelling and Simulation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 2151-2165	1.5	2
10	Feasibility and Practicability of Magnetophoretic-Augmented Composite Membrane in Treating Polluted River Water: Real Case Application. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, 13185	2.5	2
9	Fishpond water treatment: Removal of microalgae from fishpond wastewater through embedding-flocculation and sedimentation 2019 ,		1
8	Deposition Kinetics of Iron Oxide Nanoparticles on a Poly(diallyldimethylammonium Chloride)-Coated Silica Surface: Influences on the Formation of a Softer Particle-Polyelectrolyte Layer. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20777-20789	3.8	1
7	Plasmonic magnetic nanoparticles for biomedicine. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4477-8	0.9	1
6	Desalinating microalgal-rich water via thermoresponsive membrane distillation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105897	6.8	1

5	Complex interplay between colloidal stability, transport, chemical reactivity and magnetic separability of polyelectrolyte-functionalized nanoscale zero-valent iron particles (nZVI) toward their environmental engineering application. <i>Colloids and Interface Science Communications</i> , 2022 , 46, 100582	5.4	o
4	Design and operation of magnetophoretic systems at microscale: Device and particle approaches. <i>Electrophoresis</i> , 2021 , 42, 2303-2328	3.6	o
3	The Transport Behavior of a Biflagellated Microswimmer before and after Cargo Loading. <i>Langmuir</i> , 2021 , 37, 9192-9201	4	o
2	Plantain Peel Mediated Green Synthesis Iron Oxide Nanoparticles, Surface Functionalization, and Their Performance towards Methylene Blue and Methyl Orange Dye Removal. <i>International Journal of Engineering and Technology(UAE)</i> , 2018 , 7, 101	0.8	
1	Harvesting of Microalgae from Synthetic Fertilizer Wastewater by Magnetic Particles Through Embedding Flocculation Strategy. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 6619-6633	2.5	