

# JitKang Lim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3930231/publications.pdf>

Version: 2024-02-01

95  
papers

5,004  
citations

87723

38  
h-index

91712

69  
g-index

96  
all docs

96  
docs citations

96  
times ranked

6807  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.0	14
2	Environmental monitoring of trace metal pollutants using cellulosic-paper incorporating color change of azo-chromophore. <i>Environmental Science and Pollution Research</i> , 2022, 29, 71614-71631.	2.7	3
3	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.	3.3	8
4	Magnetophoresis of Magnetic Pickering Emulsions Under Low Field Gradient: Macroscopic and Microscopic Motion. <i>Langmuir</i> , 2021, 37, 1811-1822.	1.6	8
5	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.	1.7	17
6	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.	0.8	10
7	Design and operation of magnetophoretic systems at microscale: Device and particle approaches. <i>Electrophoresis</i> , 2021, 42, 2303-2328.	1.3	10
8	The Transport Behavior of a Biflagellated Microswimmer before and after Cargo Loading. <i>Langmuir</i> , 2021, 37, 9192-9201.	1.6	3
9	Desalinating microalgal-rich water via thermoresponsive membrane distillation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105897.	3.3	12
10	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.	1.7	0
11	Investigation of Anti-fouling and UV-Cleaning Properties of PVDF/TiO <sub>2</sub> Mixed-Matrix Membrane for Humic Acid Removal. <i>Membranes</i> , 2021, 11, 16.	1.4	21
12	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, 101031.	2.6	26
13	Sedimentation Kinetics of Magnetic Nanoparticle Clusters: Iron Oxide Nanospheres vs Nanorods. <i>Langmuir</i> , 2020, 36, 5085-5095.	1.6	15
14	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.	1.6	10
15	Unified View of Magnetic Nanoparticle Separation under Magnetophoresis. <i>Langmuir</i> , 2020, 36, 8033-8055.	1.6	63
16	Colorectal cancer stem cells: a review of targeted drug delivery by gold nanoparticles. <i>RSC Advances</i> , 2020, 10, 973-985.	1.7	34
17	Fishpond water treatment: Removal of microalgae from fishpond wastewater through embedding-flocculation and sedimentation. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
18	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.	2.6	15

#	ARTICLE	IF	CITATIONS
19	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, 1-13.	0.6	27
20	Motion control of biohybrid microbots under low Reynolds number environment: Magnetotaxis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 141, 107530.	1.8	6
21	Catalytic co-pyrolysis of sugarcane bagasse and waste high-density polyethylene over faujasite-type zeolite. <i>Bioresource Technology</i> , 2019, 284, 406-414.	4.8	58
22	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.	1.3	5
23	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.	2.0	8
24	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.	2.3	10
25	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.	1.7	7
26	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.	0.2	1
27	The Key Role of TNF-TNFR2 Interactions in the Modulation of Allergic Inflammation: A Review. <i>Frontiers in Immunology</i> , 2018, 9, 2572.	2.2	60
28	Dynamic Light Scattering: Effective Sizing Technique for Characterization of Magnetic Nanoparticles. , 2018, , 77-111.		8
29	Role of Particle-Particle Interaction Towards Effective Interpretation of $\langle i \rangle Z \langle /i \rangle$ -Average and Particle Size Distributions from Dynamic Light Scattering (DLS) Analysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6957-6964.	0.9	29
30	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.	2.0	9
31	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.	2.0	55
32	Artificial Magnetotaxis of Microbot: Magnetophoresis versus Self-Swimming. <i>Langmuir</i> , 2018, 34, 7971-7980.	1.6	25
33	Kinetics of Low Field Gradient Magnetophoresis in the Presence of Magnetically Induced Convection. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5389-5407.	1.5	25
34	Effect of the colloidal stability of SF-IONPs on the performance of magnetophoretic separation of microalgae. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
35	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.	1.5	3
36	Targeting dendritic cells through gold nanoparticles: A review on the cellular uptake and subsequent immunological properties. <i>Molecular Immunology</i> , 2017, 91, 123-133.	1.0	70

#	ARTICLE	IF	CITATIONS
37	Agglomeration, colloidal stability, and magnetic separation of magnetic nanoparticles: collective influences on environmental engineering applications. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	73
38	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.	4.5	19
39	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.	4.1	9
40	Recent progress on biomass co-pyrolysis conversion into high-quality bio-oil. <i>Bioresource Technology</i> , 2016, 221, 645-655.	4.8	269
41	Working principle and application of magnetic separation for biomedical diagnostic at high- and low-field gradients. <i>Interface Focus</i> , 2016, 6, 20160048.	1.5	66
42	Toxicity of bare and surfaced functionalized iron oxide nanoparticles towards microalgae. <i>International Journal of Phytoremediation</i> , 2016, 18, 643-650.	1.7	14
43	Fluorescent molecularly imprinted polymer based on <i>Navicula sp.</i> frustules for optical detection of lysozyme. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2083-2093.	1.9	18
44	Hydroxyl functionalized PVDF–TiO <sub>2</sub> ultrafiltration membrane and its antifouling properties. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	26
45	Manipulating cluster size of polyanion-stabilized Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticle clusters via electrostatic-mediated assembly for tunable magnetophoresis behavior. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	9
46	Magnetic nanoparticles augmented composite membranes in removal of organic foulant through magnetic actuation. <i>Journal of Membrane Science</i> , 2015, 493, 134-146.	4.1	39
47	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.	6.6	14
48	Magnetophoresis of superparamagnetic nanoparticles at low field gradient: hydrodynamic effect. <i>Soft Matter</i> , 2015, 11, 6968-6980.	1.2	49
49	Molecularly imprinted polymer layers using <i>Navicula sp.</i> frustule as core material for selective recognition of lysozyme. <i>Chemical Engineering Research and Design</i> , 2015, 101, 2-14.	2.7	6
50	Chromium–tungsten 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.	2.7	27
51	Influences of diatom frustule morphologies on protein adsorption behavior. <i>Journal of Applied Phycology</i> , 2015, 27, 763-775.	1.5	25
52	Layer-by-layer assembly of iron oxide magnetic nanoparticles decorated silica colloid for water remediation. <i>Chemical Engineering Journal</i> , 2014, 243, 68-78.	6.6	46
53	Magnetophoretic separation of microalgae: the role of nanoparticles and polymer binder in harvesting biofuel. <i>RSC Advances</i> , 2014, 4, 4114-4121.	1.7	71
54	Magnetophoresis of iron oxide nanoparticles at low field gradient: The role of shape anisotropy. <i>Journal of Colloid and Interface Science</i> , 2014, 421, 170-177.	5.0	43

#	ARTICLE	IF	CITATIONS
55	Challenges associated to magnetic separation of nanomaterials at low field gradient. Separation and Purification Technology, 2014, 123, 171-174.	3.9	64
56	Magnetophoretic separation of <i>Chlorella</i> sp.: Role of cationic polymer binder. Chemical Engineering Research and Design, 2014, 92, 515-521.	2.7	39
57	Kinetic studies and thermodynamics of oil extraction and transesterification of <i>Chlorella</i> sp. for biodiesel production. Environmental Technology (United Kingdom), 2014, 35, 891-897.	1.2	29
58	On Size Fractionation of Iron Oxide Nanoclusters by Low Magnetic Field Gradient. Journal of Physical Chemistry C, 2014, 118, 24042-24054.	1.5	40
59	The role of particle-to-cell interactions in dictating nanoparticle aided magnetophoretic separation of microalgal cells. Nanoscale, 2014, 6, 12838-12848.	2.8	49
60	Directed Assembly of Bifunctional Silica-Iron Oxide Nanocomposite with Open Shell Structure. ACS Applied Materials & Interfaces, 2014, 6, 16508-16518.	4.0	14
61	Comparison of harvesting methods for microalgae <i>Chlorella</i> sp. and its potential use as a biodiesel feedstock. Environmental Technology (United Kingdom), 2014, 35, 2244-2253.	1.2	63
62	Chemical cleaning of a cross-flow microfiltration membrane fouled by microalgal biomass. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 233-241.	2.7	40
63	Enhancing lipid productivity of <i>Chlorella vulgaris</i> using oxidative stress by TiO <sub>2</sub> nanoparticles. Korean Journal of Chemical Engineering, 2014, 31, 861-867.	1.2	80
64	Efficacy evaluation of the antifouling magnetite-PES composite membrane through QCM-D and magnetophoretic filtration performances. Separation and Purification Technology, 2014, 132, 138-148.	3.9	18
65	Electrophoretic interactions between nitrocellulose membranes and proteins: Biointerface analysis and protein adhesion properties. Colloids and Surfaces B: Biointerfaces, 2013, 110, 248-253.	2.5	40
66	Characterization of magnetic nanoparticle by dynamic light scattering. Nanoscale Research Letters, 2013, 8, 381.	3.1	446
67	Harvesting of microalgal biomass using MF membrane: Kinetic model, CDE model and extended DLVO theory. Journal of Membrane Science, 2013, 446, 341-349.	4.1	40
68	Composite magnetic-plasmonic nanoparticles for biomedicine: Manipulation and imaging. Nano Today, 2013, 8, 98-113.	6.2	93
69	Studies on the surface properties of mixed-matrix membrane and its antifouling properties for humic acid removal. Journal of Applied Polymer Science, 2013, 128, 3184-3192.	1.3	33
70	Microfiltration of <i>Chlorella</i> sp.: Influence of material and membrane pore size. Membrane Water Treatment, 2013, 4, 143-155.	0.5	14
71	Sustainability assessment of microalgal biodiesel production processes: an exergetic analysis approach with Aspen Plus. International Journal of Exergy, 2012, 10, 400.	0.2	16
72	Electrosteric Stabilization and Its Role in Cooperative Magnetophoresis of Colloidal Magnetic Nanoparticles. Langmuir, 2012, 28, 14878-14891.	1.6	55

#	ARTICLE	IF	CITATIONS
73	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.	6.6	92
74	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.	6.6	73
75	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.	6.6	50
76	Colloidal Stability and Magnetophoresis of Gold-Coated Iron Oxide Nanorods in Biological Media. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22561-22569.	1.5	41
77	Crossflow microfiltration of microalgae biomass for biofuel production. <i>Desalination</i> , 2012, 302, 65-70.	4.0	92
78	Rapid Magnetophoretic Separation of Microalgae. <i>Small</i> , 2012, 8, 1683-1692.	5.2	154
79	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.	2.2	95
80	Preparation and characterization of PVDF/TiO <sub>2</sub> mixed matrix membrane via in situ colloidal precipitation method. <i>Desalination</i> , 2012, 295, 61-69.	4.0	130
81	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.	4.4	43
82	Magnetophoresis of Nanoparticles. <i>ACS Nano</i> , 2011, 5, 217-226.	7.3	125
83	Optimization of microalgae coagulation process using chitosan. <i>Chemical Engineering Journal</i> , 2011, 173, 879-882.	6.6	189
84	Microalgae as a sustainable energy source for biodiesel production: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 584-593.	8.2	857
85	Characterization of single-core magnetite nanoparticles for magnetic imaging by SQUID relaxometry. <i>Physics in Medicine and Biology</i> , 2010, 55, 5985-6003.	1.6	53
86	Plasmonic magnetic nanoparticles for biomedicine. , 2009, 2009, 4477-8.		2
87	Optical and electron microscopy studies of Schiller layer formation and structure. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 394-400.	5.0	11
88	Liposome rupture and contents release over coplanar microelectrode arrays. <i>Journal of Colloid and Interface Science</i> , 2009, 332, 113-121.	5.0	11
89	Optical imaging and magnetophoresis of nanorods. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1557-1562.	1.0	33
90	Stabilization of Superparamagnetic Iron Oxide Core~Gold Shell Nanoparticles in High Ionic Strength Media. <i>Langmuir</i> , 2009, 25, 13384-13393.	1.6	120

#	ARTICLE	IF	CITATIONS
91	Synthesis and Single-Particle Optical Detection of Low-Polydispersity Plasmonic-Superparamagnetic Nanoparticles. <i>Advanced Materials</i> , 2008, 20, 1721-1726.	11.1	98
92	Design and synthesis of plasmonic magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 311, 78-83.	1.0	43
93	Design and Synthesis Silica-Polyelectrolyte-Iron Oxide Nanocomposite with Magnetic-Catalytic Bifunctionalities for Dye Removal. <i>Advanced Materials Research</i> , 0, 1024, 3-6.	0.3	2
94	Enhance the Colloidal Stability of Magnetite Nanoparticles Using Poly(sodium 4-styrene sulfonate) Stabilizers. <i>Applied Mechanics and Materials</i> , 0, 625, 168-171.	0.2	8
95	Role of Temperature and pH on the Dye Degradation Using Magnetic Nanoparticles Augmented Polymeric Microcapsule. <i>Advanced Materials Research</i> , 0, 1113, 566-570.	0.3	6