

Seoktae Kang

List of Publications by Year in Descending Order

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

75
papers

5,618
citations

28
h-index

74
g-index

79
ext. papers

6,191
ext. citations

7.8
avg, IF

5.92
L-index

#	Paper	IF	Citations
75	Role of organic fouling layers on the transport of micropollutants in forward osmosis membrane processes. <i>Journal of Water Process Engineering</i> , 2022 , 45, 102469	6.7	0
74	Comparison of Relationship between Solubilization and Methane Productivity on Anaerobic Digestion of Pre-treated Waste Activated Sludge. <i>Daehan Hwanngyeong Gonghag Hoeji</i> , 2022 , 44, 33-40	0.6	0
73	Novel method for the facile control of molecular weight cut-off (MWCO) of ceramic membranes.. <i>Water Research</i> , 2022 , 215, 118268	12.5	0
72	Urchin-like structured magnetic hydroxyapatite for the selective separation of cerium ions from aqueous solutions.. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128488	12.8	1
71	Enhanced biodegradation of hydrocarbons by <i>Pseudomonas aeruginosa</i> -encapsulated alginate/gellan gum microbeads. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124752	12.8	6
70	Production of high-calorific biogas from food waste by integrating two approaches: Autogenerative high-pressure and hydrogen injection. <i>Water Research</i> , 2021 , 194, 116920	12.5	10
69	The impact of gamma-irradiation from radioactive liquid wastewater on polymeric structures of nanofiltration (NF) membranes. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123578	12.8	3
68	Novel Hydroxyapatite Beads for the Adsorption of Radionuclides from Decommissioned Nuclear Power Plant Sites. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1746	2.6	6
67	Stimulation of Biomethane Productivity in Anaerobic Digestion Using Electro-Conductive Carbon-Nanotube Hollow-Fiber Media. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 179	2.4	3
66	The role of electrical voltage application in enhancing anaerobic digestion of long chain fatty acids: Connection Matters!. <i>Chemical Engineering Journal</i> , 2021 , 425, 131545	14.7	2
65	Selective removal of color substances by carbon-based adsorbents in livestock wastewater effluents. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 1643-1653	4.7	4
64	Enhanced Anaerobic Digestion of Long Chain Fatty Acid by Adding Magnetite and Carbon Nanotubes. <i>Microorganisms</i> , 2020 , 8,	4.9	25
63	Incorporation of iron (oxyhydr)oxide nanoparticles with expanded graphite for phosphorus removal and recovery from aqueous solutions. <i>Chemosphere</i> , 2020 , 259, 127395	8.4	6
62	Addition of biochar into activated sludge improves removal of antibiotic ciprofloxacin. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101019	6.7	33
61	Electrocatalytic CO ₂ Reduction via a Permeable CNT Hollow-Fiber Electrode Incorporated with SnO ₂ Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2117-2121	8.3	3
60	A New era of water treatment technologies: 3D printing for membranes. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 91, 1-14	6.3	26
59	Series of Combined Pretreatment Can Affect the Solubilization of Waste-Activated Sludge. <i>Energies</i> , 2020 , 13, 4165	3.1	4

58	Electric Field Mediated Selectivity Switching of Electrochemical CO ₂ Reduction from Formate to CO on Carbon Supported Sn. <i>ACS Energy Letters</i> , 2020 , 5, 2987-2994	20.1	20
57	Enhancement of Sewage Sludge Digestion by Co-digestion with Food Waste and Swine Waste. <i>Waste and Biomass Valorization</i> , 2020 , 11, 2421-2430	3.2	11
56	Current achievements and the future direction of electrochemical CO ₂ reduction: A short review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 769-815	11.1	57
55	Preparation of alumina-zirconia (Al-Zr) ceramic nanofiltration (NF) membrane for the removal of uranium in aquatic system. <i>Water Science and Technology: Water Supply</i> , 2019 , 19, 789-795	1.4	8
54	Food waste treatment in an anaerobic dynamic membrane bioreactor (AnDMBR): Performance monitoring and microbial community analysis. <i>Bioresource Technology</i> , 2019 , 280, 158-164	11	28
53	Adsorption of Lead and Nickel on to Expanded Graphite Decorated with Manganese Oxide Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5375	2.6	21
52	Electrodialytic separation of volatile fatty acids from hydrogen fermented food wastes. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 3356-3362	6.7	17
51	Dissolved organic matter characterization of biochars produced from different feedstock materials. <i>Journal of Environmental Management</i> , 2019 , 233, 393-399	7.9	60
50	Changes in microbial community associated with dechlorination of leftover chloroform in two-stage anaerobic Co-fermentation (H ₂ +CH ₄) of lipid-extracted microalgae waste with food waste leachate. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2266-2273	6.7	3
49	Increased biodegradability of low-grade coal wastewater in anaerobic membrane bioreactor by adding yeast wastes. <i>Journal of Environmental Management</i> , 2019 , 234, 36-43	7.9	5
48	Surface immobilization of chlorhexidine on a reverse osmosis membrane for in-situ biofouling control. <i>Journal of Membrane Science</i> , 2019 , 576, 17-25	9.6	23
47	High-calorific bio-hydrogen production under self-generated high-pressure condition. <i>Bioresource Technology</i> , 2018 , 264, 174-179	11	6
46	Relating solute properties of contaminants of emerging concern and their rejection by forward osmosis membrane. <i>Science of the Total Environment</i> , 2018 , 639, 673-678	10.2	27
45	Continuous performance of hydrogenotrophic methanogenic mixed cultures: Kinetic and SMP analysis. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27767-27773	6.7	3
44	Enrichment of hydrogenotrophic methanogens by means of gas recycle and its application in biogas upgrading. <i>Energy</i> , 2017 , 135, 294-302	7.9	26
43	Thermodynamic analysis of fatty acid harvesting by novel carbon-based adsorbent. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 7146-54	5.1	12
42	Direct measurement of cake fouling potentials by powdered activated carbon during microfiltration of surface water. <i>Desalination and Water Treatment</i> , 2016 , 57, 7449-7455		2
41	Relating membrane surface properties and flux recovery during the chemical cleaning of forward osmosis membrane. <i>Desalination and Water Treatment</i> , 2016 , 57, 26621-26628		2

40	Combined coagulation/ceramic membrane ultrafiltration system for reclamation of degreasing washing water. <i>Desalination and Water Treatment</i> , 2016 , 57, 7479-7486		7
39	Designing a biocidal reverse osmosis membrane coating: Synthesis and biofouling properties. <i>Desalination</i> , 2016 , 380, 52-59	10.3	32
38	High performance all-carbon composite transparent electrodes containing uniform carbon nanotube networks. <i>Journal of Alloys and Compounds</i> , 2016 , 675, 37-45	5.7	7
37	Development of a rotary disc voltammetric sensor system for semi-continuous and on-site measurements of Pb(II). <i>Chemosphere</i> , 2016 , 143, 78-84	8.4	7
36	Impact of feed ionic concentration on colloidal and organic fouling of osmotically driven membrane process. <i>Desalination and Water Treatment</i> , 2016 , 57, 24551-24556		3
35	Sustainable harvesting of aqueous phase fatty acids by expanded graphite and isopropyl alcohol. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21780-21786	6.7	6
34	Modeling of a monopolar ion-exchange membrane for nutrient salts removal. <i>Desalination and Water Treatment</i> , 2015 , 53, 2825-2830		3
33	Growth of wrinkle-free graphene on texture-controlled platinum films and thermal-assisted transfer of large-scale patterned graphene. <i>ACS Nano</i> , 2015 , 9, 679-86	16.7	46
32	Removal of Pb and Cu ions from aqueous solution by Mn ₃ O ₄ -coated activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 470-475	6.3	43
31	Alginate fouling reduction of functionalized carbon nanotube blended cellulose acetate membrane in forward osmosis. <i>Chemosphere</i> , 2015 , 136, 204-10	8.4	51
30	Hydrothermal decoration of iron oxide nanoparticles on expanded graphite for adsorption of phosphorus 2015 ,		1
29	Impact of conditioning film on the initial adhesion of E. coli on polysulfone ultrafiltration membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 1438-1443	6.3	6
28	Enhanced photo-fermentative H ₂ production using Rhodospirillum rubrum by ethanol addition and analysis of soluble microbial products. <i>Biotechnology for Biofuels</i> , 2014 , 7, 79	7.8	16
27	Impact of polymeric membrane filtration of oil sands process water on organic compounds quantification. <i>Water Science and Technology</i> , 2014 , 70, 771-9	2.2	8
26	Bacteria-polymeric membrane interactions: atomic force microscopy and XDLVO predictions. <i>Langmuir</i> , 2013 , 29, 13773-82	4	34
25	Continuous photo-fermentative hydrogen production from lactate and lactate-rich acidified food waste. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6161-6166	6.7	9
24	The role of conditioning film formation in Pseudomonas aeruginosa PAO1 adhesion to inert surfaces in aquatic environments. <i>Biochemical Engineering Journal</i> , 2013 , 76, 90-98	4.2	33
23	Facile synthesis of few-layer graphene with a controllable thickness using rapid thermal annealing. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1777-82	9.5	25

22	Impact of conditioning films on the initial adhesion of Burkholderia cepacia. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 91, 181-8	6	44
21	Impact of an extracellular polymeric substance (EPS) pre-coating on the initial adhesion of Burkholderia cepacia and Pseudomonas aeruginosa. <i>Biofouling</i> , 2012 , 28, 525-38	3.3	40
20	Antimicrobial biomaterials based on carbon nanotubes dispersed in poly(lactic-co-glycolic acid). <i>Nanoscale</i> , 2010 , 2, 1789-94	7.7	116
19	Ultrafiltration membranes incorporating amphiphilic comb copolymer additives prevent irreversible adhesion of bacteria. <i>Environmental Science & Technology</i> , 2010 , 44, 2406-11	10.3	78
18	SWNT-MWNT hybrid filter attains high viral removal and bacterial inactivation. <i>Langmuir</i> , 2010 , 26, 19153-8	4	84
17	Electronic-structure-dependent bacterial cytotoxicity of single-walled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 5471-9	16.7	392
16	Role of extracellular polymeric substances (EPS) in biofouling of reverse osmosis membranes. <i>Environmental Science & Technology</i> , 2009 , 43, 4393-8	10.3	290
15	Influence of shear on the production of extracellular polymeric substances in membrane bioreactors. <i>Water Research</i> , 2009 , 43, 4305-15	12.5	57
14	Microbial cytotoxicity of carbon-based nanomaterials: implications for river water and wastewater effluent. <i>Environmental Science & Technology</i> , 2009 , 43, 2648-53	10.3	317
13	Bioinspired single bacterial cell force spectroscopy. <i>Langmuir</i> , 2009 , 25, 9656-9	4	108
12	Physicochemical determinants of multiwalled carbon nanotube bacterial cytotoxicity. <i>Environmental Science & Technology</i> , 2008 , 42, 7528-34	10.3	289
11	Antibacterial effects of carbon nanotubes: size does matter!. <i>Langmuir</i> , 2008 , 24, 6409-13	4	859
10	A single-walled-carbon-nanotube filter for removal of viral and bacterial pathogens. <i>Small</i> , 2008 , 4, 481-4	41	387
9	Single-walled carbon nanotubes exhibit strong antimicrobial activity. <i>Langmuir</i> , 2007 , 23, 8670-3	4	1014
8	Positive roles of biofilm during the operation of membrane bioreactor for water reuse. <i>Desalination</i> , 2007 , 202, 129-134	10.3	31
7	Anti-fouling ultrafiltration membranes containing polyacrylonitrile-graft-poly(ethylene oxide) comb copolymer additives. <i>Journal of Membrane Science</i> , 2007 , 298, 136-146	9.6	362
6	Transport and adhesion of Escherichia coli JM109 in soil aquifer treatment (SAT): one-dimensional column study. <i>Environmental Monitoring and Assessment</i> , 2007 , 129, 9-18	3.1	10
5	Antifouling nanofiltration membranes for membrane bioreactors from self-assembling graft copolymers. <i>Journal of Membrane Science</i> , 2006 , 285, 81-89	9.6	211

4	Effect of Membrane Surface Properties During the Fast Evaluation of Cell Attachment. <i>Separation Science and Technology</i> , 2006 , 41, 1475-1487	2.5	60
3	Effect of surface hydrophobicity on the adhesion of <i>S. cerevisiae</i> onto modified surfaces by poly(styrene-ran-sulfonic acid) random copolymers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 46, 70-76	6	60
2	Three-dimensional hollow fiber type of carbon nanotube electrode for enhanced ion adsorption capacity	90, 46-53	2
1	Novel preparation of ceramic nanofiltration membrane for the removal of trace organic compounds	101, 31-36	5