

# Seoktae Kang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4843634/seoktae-kang-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Single-walled carbon nanotubes exhibit strong antimicrobial activity. <i>Langmuir</i> , <b>2007</b> , 23, 8670-3	4	1014
74	Antibacterial effects of carbon nanotubes: size does matter!. <i>Langmuir</i> , <b>2008</b> , 24, 6409-13	4	859
73	Electronic-structure-dependent bacterial cytotoxicity of single-walled carbon nanotubes. <i>ACS Nano</i> , <b>2010</b> , 4, 5471-9	16.7	392
72	A single-walled-carbon-nanotube filter for removal of viral and bacterial pathogens. <i>Small</i> , <b>2008</b> , 4, 481-41		387
71	Anti-fouling ultrafiltration membranes containing polyacrylonitrile-graft-poly(ethylene oxide) comb copolymer additives. <i>Journal of Membrane Science</i> , <b>2007</b> , 298, 136-146	9.6	362
70	Microbial cytotoxicity of carbon-based nanomaterials: implications for river water and wastewater effluent. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 2648-53	10.3	317
69	Role of extracellular polymeric substances (EPS) in biofouling of reverse osmosis membranes. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 4393-8	10.3	290
68	Physicochemical determinants of multiwalled carbon nanotube bacterial cytotoxicity. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 7528-34	10.3	289
67	Antifouling nanofiltration membranes for membrane bioreactors from self-assembling graft copolymers. <i>Journal of Membrane Science</i> , <b>2006</b> , 285, 81-89	9.6	211
66	Antimicrobial biomaterials based on carbon nanotubes dispersed in poly(lactic-co-glycolic acid). <i>Nanoscale</i> , <b>2010</b> , 2, 1789-94	7.7	116
65	Bioinspired single bacterial cell force spectroscopy. <i>Langmuir</i> , <b>2009</b> , 25, 9656-9	4	108
64	SWNT-MWNT hybrid filter attains high viral removal and bacterial inactivation. <i>Langmuir</i> , <b>2010</b> , 26, 19153-8		84
63	Ultrafiltration membranes incorporating amphiphilic comb copolymer additives prevent irreversible adhesion of bacteria. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 2406-11	10.3	78
62	Effect of Membrane Surface Properties During the Fast Evaluation of Cell Attachment. <i>Separation Science and Technology</i> , <b>2006</b> , 41, 1475-1487	2.5	60
61	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> , <b>2005</b> , 46, 70-7 <sup>6</sup>		60
60	Dissolved organic matter characterization of biochars produced from different feedstock materials. <i>Journal of Environmental Management</i> , <b>2019</b> , 233, 393-399	7.9	60
59	Influence of shear on the production of extracellular polymeric substances in membrane bioreactors. <i>Water Research</i> , <b>2009</b> , 43, 4305-15	12.5	57

58	Current achievements and the future direction of electrochemical CO <sub>2</sub> reduction: A short review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2020</b> , 50, 769-815	11.1	57
57	Alginate fouling reduction of functionalized carbon nanotube blended cellulose acetate membrane in forward osmosis. <i>Chemosphere</i> , <b>2015</b> , 136, 204-10	8.4	51
56	Growth of wrinkle-free graphene on texture-controlled platinum films and thermal-assisted transfer of large-scale patterned graphene. <i>ACS Nano</i> , <b>2015</b> , 9, 679-86	16.7	46
55	Impact of conditioning films on the initial adhesion of <i>Burkholderia cepacia</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2012</b> , 91, 181-8	6	44
54	Removal of Pb and Cu ions from aqueous solution by Mn <sub>3</sub> O <sub>4</sub> -coated activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 21, 470-475	6.3	43
53	Impact of an extracellular polymeric substance (EPS) pre-coating on the initial adhesion of <i>Burkholderia cepacia</i> and <i>Pseudomonas aeruginosa</i> . <i>Biofouling</i> , <b>2012</b> , 28, 525-38	3.3	40
52	Bacteria-polymeric membrane interactions: atomic force microscopy and XDLVO predictions. <i>Langmuir</i> , <b>2013</b> , 29, 13773-82	4	34
51	The role of conditioning film formation in <i>Pseudomonas aeruginosa</i> PAO1 adhesion to inert surfaces in aquatic environments. <i>Biochemical Engineering Journal</i> , <b>2013</b> , 76, 90-98	4.2	33
50	Addition of biochar into activated sludge improves removal of antibiotic ciprofloxacin. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 33, 101019	6.7	33
49	Designing a biocidal reverse osmosis membrane coating: Synthesis and biofouling properties. <i>Desalination</i> , <b>2016</b> , 380, 52-59	10.3	32
48	Positive roles of biofilm during the operation of membrane bioreactor for water reuse. <i>Desalination</i> , <b>2007</b> , 202, 129-134	10.3	31
47	Food waste treatment in an anaerobic dynamic membrane bioreactor (AnDMBR): Performance monitoring and microbial community analysis. <i>Bioresource Technology</i> , <b>2019</b> , 280, 158-164	11	28
46	Relating solute properties of contaminants of emerging concern and their rejection by forward osmosis membrane. <i>Science of the Total Environment</i> , <b>2018</b> , 639, 673-678	10.2	27
45	Enrichment of hydrogenotrophic methanogens by means of gas recycle and its application in biogas upgrading. <i>Energy</i> , <b>2017</b> , 135, 294-302	7.9	26
44	A New era of water treatment technologies: 3D printing for membranes. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 91, 1-14	6.3	26
43	Enhanced Anaerobic Digestion of Long Chain Fatty Acid by Adding Magnetite and Carbon Nanotubes. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	25
42	Facile synthesis of few-layer graphene with a controllable thickness using rapid thermal annealing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 1777-82	9.5	25
41	Surface immobilization of chlorhexidine on a reverse osmosis membrane for in-situ biofouling control. <i>Journal of Membrane Science</i> , <b>2019</b> , 576, 17-25	9.6	23

40	Adsorption of Lead and Nickel on to Expanded Graphite Decorated with Manganese Oxide Nanoparticles. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 5375	2.6	21
39	Electric Field Mediated Selectivity Switching of Electrochemical CO <sub>2</sub> Reduction from Formate to CO on Carbon Supported Sn. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2987-2994	20.1	20
38	Electrodialytic separation of volatile fatty acids from hydrogen fermented food wastes. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 3356-3362	6.7	17
37	Enhanced photo-fermentative H <sub>2</sub> production using Rhodospirillum rubrum by ethanol addition and analysis of soluble microbial products. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 79	7.8	16
36	Thermodynamic analysis of fatty acid harvesting by novel carbon-based adsorbent. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 7146-54	5.1	12
35	Enhancement of Sewage Sludge Digestion by Co-digestion with Food Waste and Swine Waste. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 2421-2430	3.2	11
34	Transport and adhesion of Escherichia coli JM109 in soil aquifer treatment (SAT): one-dimensional column study. <i>Environmental Monitoring and Assessment</i> , <b>2007</b> , 129, 9-18	3.1	10
33	Production of high-calorific biogas from food waste by integrating two approaches: Autogenerative high-pressure and hydrogen injection. <i>Water Research</i> , <b>2021</b> , 194, 116920	12.5	10
32	Continuous photo-fermentative hydrogen production from lactate and lactate-rich acidified food waste. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 6161-6166	6.7	9
31	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> , <b>2019</b> , 19, 789-795	1.4	8
30	Impact of polymeric membrane filtration of oil sands process water on organic compounds quantification. <i>Water Science and Technology</i> , <b>2014</b> , 70, 771-9	2.2	8
29	Combined coagulation/ceramic membrane ultrafiltration system for reclamation of degreasing washing water. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 7479-7486		7
28	High performance all-carbon composite transparent electrodes containing uniform carbon nanotube networks. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 675, 37-45	5.7	7
27	Development of a rotary disc voltammetric sensor system for semi-continuous and on-site measurements of Pb(II). <i>Chemosphere</i> , <b>2016</b> , 143, 78-84	8.4	7
26	Incorporation of iron (oxyhydr)oxide nanoparticles with expanded graphite for phosphorus removal and recovery from aqueous solutions. <i>Chemosphere</i> , <b>2020</b> , 259, 127395	8.4	6
25	Impact of conditioning film on the initial adhesion of E. coli on polysulfone ultrafiltration membrane. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2014</b> , 20, 1438-1443	6.3	6
24	Enhanced biodegradation of hydrocarbons by Pseudomonas aeruginosa-encapsulated alginate/gellan gum microbeads. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 406, 124752	12.8	6
23	Sustainable harvesting of aqueous phase fatty acids by expanded graphite and isopropyl alcohol. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 21780-21786	6.7	6

22	Novel Hydroxyapatite Beads for the Adsorption of Radionuclides from Decommissioned Nuclear Power Plant Sites. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1746	2.6	6
21	High-calorific bio-hydrogen production under self-generated high-pressure condition. <i>Bioresource Technology</i> , <b>2018</b> , 264, 174-179	11	6
20	Novel preparation of ceramic nanofiltration membrane for the removal of trace organic compounds101, 31-36		5
19	Increased biodegradability of low-grade coal wastewater in anaerobic membrane bioreactor by adding yeast wastes. <i>Journal of Environmental Management</i> , <b>2019</b> , 234, 36-43	7.9	5
18	Selective removal of color substances by carbon-based adsorbents in livestock wastewater effluents. <i>Environmental Geochemistry and Health</i> , <b>2020</b> , 42, 1643-1653	4.7	4
17	Series of Combined Pretreatment Can Affect the Solubilization of Waste-Activated Sludge. <i>Energies</i> , <b>2020</b> , 13, 4165	3.1	4
16	Modeling of a monopolar ion-exchange membrane for nutrient salts removal. <i>Desalination and Water Treatment</i> , <b>2015</b> , 53, 2825-2830		3
15	Continuous performance of hydrogenotrophic methanogenic mixed cultures: Kinetic and SMP analysis. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 27767-27773	6.7	3
14	Electrocatalytic CO <sub>2</sub> Reduction via a Permeable CNT Hollow-Fiber Electrode Incorporated with SnO <sub>2</sub> Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 2117-2121	8.3	3
13	Impact of feed ionic concentration on colloidal and organic fouling of osmotically driven membrane process. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 24551-24556		3
12	Changes in microbial community associated with dechlorination of leftover chloroform in two-stage anaerobic Co-fermentation (H <sub>2</sub> +CH <sub>4</sub> ) of lipid-extracted microalgae waste with food waste leachate. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 2266-2273	6.7	3
11	The impact of gamma-irradiation from radioactive liquid wastewater on polymeric structures of nanofiltration (NF) membranes. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123578	12.8	3
10	Stimulation of Biomethane Productivity in Anaerobic Digestion Using Electro-Conductive Carbon-Nanotube Hollow-Fiber Media. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 179	2.4	3
9	Direct measurement of cake fouling potentials by powdered activated carbon during microfiltration of surface water. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 7449-7455		2
8	Relating membrane surface properties and flux recovery during the chemical cleaning of forward osmosis membrane. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 26621-26628		2
7	Three-dimensional hollow fiber type of carbon nanotube electrode for enhanced ion adsorption capacity90, 46-53		2
6	The role of electrical voltage application in enhancing anaerobic digestion of long chain fatty acids: Connection Matters!. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131545	14.7	2
5	Hydrothermal decoration of iron oxide nanoparticles on expanded graphite for adsorption of phosphorus <b>2015</b> ,		1

4	Urchin-like structured magnetic hydroxyapatite for the selective separation of cerium ions from aqueous solutions.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 430, 128488	12.8	1
3	Role of organic fouling layers on the transport of micropollutants in forward osmosis membrane processes. <i>Journal of Water Process Engineering</i> , <b>2022</b> , 45, 102469	6.7	0
2	Comparison of Relationship between Solubilization and Methane Productivity on Anaerobic Digestion of Pre-treated Waste Activated Sludge. <i>Daehan Hwanngyeong Gonghag Hoeji</i> , <b>2022</b> , 44, 33-40	0.6	0
1	Novel method for the facile control of molecular weight cut-off (MWCO) of ceramic membranes.. <i>Water Research</i> , <b>2022</b> , 215, 118268	12.5	0