# Seoktae Kang

List of Publications by Year
in descending order

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|---|---|---|---|
| 79 papers | 6,772 citations | 126901 33 h-index | 76898 74 g-index |
| 79 all docs | 79 docs citations | 79 times ranked | 8196 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Single-Walled Carbon Nanotubes Exhibit Strong Antimicrobial Activity. Langmuir, 2007, 23, 8670-8673. | 3.5 | 1,165 |
| 2 | Antibacterial Effects of Carbon Nanotubes: Size Does Matter!. Langmuir, 2008, 24, 6409-6413. | 3.5 | 1,003 |
| 3 | Electronic-Structure-Dependent Bacterial Cytotoxicity of Single-Walled Carbon Nanotubes. ACS Nano, 2010, 4, 5471-5479. | 14.6 | 456 |
| 4 | A Singleâ€Walledâ€Carbonâ€Nanotube Filter for Removal of Viral and Bacterial Pathogens. Small, 2008, 4, 481-484. | 10.0 | 431 |
| 5 | Anti-fouling ultrafiltration membranes containing polyacrylonitrile-graft-poly(ethylene oxide) comb copolymer additives. Journal of Membrane Science, 2007, 298, 136-146. | 8.2 | 404 |
| 6 | Microbial Cytotoxicity of Carbon-Based Nanomaterials: Implications for River Water and Wastewater Effluent. Environmental Science & Technology, 2009, 43, 2648-2653. | 10.0 | 354 |
| 7 | Role of Extracellular Polymeric Substances (EPS) in Biofouling of Reverse Osmosis Membranes. Environmental Science & Technology, 2009, 43, 4393-4398. | 10.0 | 338 |
| 8 | Physicochemical Determinants of Multiwalled Carbon Nanotube Bacterial Cytotoxicity. Environmental Science & Technology, 2008, 42, 7528-7534. | 10.0 | 335 |
| 9 | Antifouling nanofiltration membranes for membrane bioreactors from self-assembling graft copolymers. Journal of Membrane Science, 2006, 285, 81-89. | 8.2 | 226 |
| 10 | Antimicrobial biomaterials based on carbon nanotubes dispersed in poly(lactic-co-glycolic acid). Nanoscale, 2010, 2, 1789. | 5.6 | 139 |
| 11 | Bioinspired Single Bacterial Cell Force Spectroscopy. Langmuir, 2009, 25, 9656-9659. | 3.5 | 121 |
| 12 | Current achievements and the future direction of electrochemical CO<sub>2</sub> reduction: A short review. Critical Reviews in Environmental Science and Technology, 2020, 50, 769-815. | 12.8 | 106 |
| 13 | Dissolved organic matter characterization of biochars produced from different feedstock materials. Journal of Environmental Management, 2019, 233, 393-399. | 7.8 | 104 |
| 14 | SWNTâˆ’MWNT Hybrid Filter Attains High Viral Removal and Bacterial Inactivation. Langmuir, 2010, 26, 19153-19158. | 3.5 | 99 |
| 15 | Ultrafiltration Membranes Incorporating Amphiphilic Comb Copolymer Additives Prevent Irreversible Adhesion of Bacteria. Environmental Science & Technology, 2010, 44, 2406-2411. | 10.0 | 85 |
| 16 | Effect of surface hydrophobicity on the adhesion of S. cerevisiae onto modified surfaces by poly(styrene-ran-sulfonic acid) random copolymers. Colloids and Surfaces B: Biointerfaces, 2005, 46, 70-77. | 5.0 | 75 |
| 17 | Effect of Membrane Surface Properties During the Fast Evaluation of Cell Attachment. Separation Science and Technology, 2006, 41, 1475-1487. | 2.5 | 67 |
| 18 | Influence of shear on the production of extracellular polymeric substances in membrane bioreactors. Water Research, 2009, 43, 4305-4315. | 11.3 | 67 |

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|---|---|---|---|
| 19 | A New era of water treatment technologies: 3D printing for membranes. Journal of Industrial and Engineering Chemistry, 2020, 91, 1-14. | 5.8 | 67 |
| 20 | Alginate fouling reduction of functionalized carbon nanotube blended cellulose acetate membrane in forward osmosis. Chemosphere, 2015, 136, 204-210. | 8.2 | 63 |
| 21 | Addition of biochar into activated sludge improves removal of antibiotic ciprofloxacin. Journal of Water Process Engineering, 2020, 33, 101019. | 5.6 | 55 |
| 22 | Impact of conditioning films on the initial adhesion of Burkholderia cepacia. Colloids and Surfaces B: Biointerfaces, 2012, 91, 181-188. | 5.0 | 52 |
| 23 | Growth of Wrinkle-Free Graphene on Texture-Controlled Platinum Films and Thermal-Assisted Transfer of Large-Scale Patterned Graphene. ACS Nano, 2015, 9, 679-686. | 14.6 | 52 |
| 24 | Impact of an extracellular polymeric substance (EPS) precoating on the initial adhesion ofBurkholderia cepaciaandPseudomonas aeruginosa. Biofouling, 2012, 28, 525-538. | 2.2 | 51 |
| 25 | Removal of Pb and Cu ions from aqueous solution by Mn 3 O 4 -coated activated carbon. Journal of Industrial and Engineering Chemistry, 2015, 21, 470-475. | 5.8 | 50 |
| 26 | Bacteriaâ€“Polymeric Membrane Interactions: Atomic Force Microscopy and XDLVO Predictions. Langmuir, 2013, 29, 13773-13782. | 3.5 | 43 |
| 27 | Electric Field Mediated Selectivity Switching of Electrochemical CO<sub>2</sub> Reduction from Formate to CO on Carbon Supported Sn. ACS Energy Letters, 2020, 5, 2987-2994. | 17.4 | 41 |
| 28 | The role of conditioning film formation in Pseudomonas aeruginosa PAO1 adhesion to inert surfaces in aquatic environments. Biochemical Engineering Journal, 2013, 76, 90-98. | 3.6 | 40 |
| 29 | Relating solute properties of contaminants of emerging concern and their rejection by forward osmosis membrane. Science of the Total Environment, 2018, 639, 673-678. | 8.0 | 39 |
| 30 | Designing a biocidal reverse osmosis membrane coating: Synthesis and biofouling properties. Desalination, 2016, 380, 52-59. | 8.2 | 38 |
| 31 | Enhanced Anaerobic Digestion of Long Chain Fatty Acid by Adding Magnetite and Carbon Nanotubes. Microorganisms, 2020, 8, 333. | 3.6 | 37 |
| 32 | Food waste treatment in an anaerobic dynamic membrane bioreactor (AnDMBR): Performance monitoring and microbial community analysis. Bioresource Technology, 2019, 280, 158-164. | 9.6 | 35 |
| 33 | Positive roles of biofilm during the operation of membrane bioreactor for water reuse. Desalination, 2007, 202, 129-134. | 8.2 | 33 |
| 34 | Enrichment of hydrogenotrophic methanogens by means of gas recycle and its application in biogas upgrading. Energy, 2017, 135, 294-302. | 8.8 | 33 |
| 35 | Surface immobilization of chlorhexidine on a reverse osmosis membrane for in-situ biofouling control. Journal of Membrane Science, 2019, 576, 17-25. | 8.2 | 30 |
| 36 | Facile Synthesis of Few-Layer Graphene with a Controllable Thickness Using Rapid Thermal Annealing. ACS Applied Materials & Interfaces, 2012, 4, 1777-1782. | 8.0 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Adsorption of Lead and Nickel on to Expanded Graphite Decorated with Manganese Oxide Nanoparticles. Applied Sciences (Switzerland), 2019, 9, 5375. | 2.5 | 28 |
| 38 | Production of high-calorific biogas from food waste by integrating two approaches: Autogenerative high-pressure and hydrogen injection. Water Research, 2021, 194, 116920. | 11.3 | 27 |
| 39 | Urchin-like structured magnetic hydroxyapatite for the selective separation of cerium ions from aqueous solutions. Journal of Hazardous Materials, 2022, 430, 128488. | 12.4 | 24 |
| 40 | Electrodialytic separation of volatile fatty acids from hydrogen fermented food wastes. International Journal of Hydrogen Energy, 2019, 44, 3356-3362. | 7.1 | 23 |
| 41 | Enhanced photo-fermentative H2 production using Rhodobacter sphaeroides by ethanol addition and analysis of soluble microbial products. Biotechnology for Biofuels, 2014, 7, 79. | 6.2 | 20 |
| 42 | Enhancement of Sewage Sludge Digestion by Co-digestion with Food Waste and Swine Waste. Waste and Biomass Valorization, 2020, 11, 2421-2430. | 3.4 | 16 |
| 43 | Enhanced biodegradation of hydrocarbons by Pseudomonas aeruginosa-encapsulated alginate/gellan gum microbeads. Journal of Hazardous Materials, 2021, 406, 124752. | 12.4 | 15 |
| 44 | Novel method for the facile control of molecular weight cut-off (MWCO) of ceramic membranes. Water Research, 2022, 215, 118268. | 11.3 | 15 |
| 45 | Preparation of alumina-zirconia (Al-Zr) ceramic nanofiltration (NF) membrane for the removal of uranium in aquatic system. Water Science and Technology: Water Supply, 2019, 19, 789-795. | 2.1 | 14 |
| 46 | Thermodynamic analysis of fatty acid harvesting by novel carbon-based adsorbent. Environmental Science and Pollution Research, 2016, 23, 7146-7154. | 5.3 | 13 |
| 47 | Continuous photo-fermentative hydrogen production from lactate and lactate-rich acidified food waste. International Journal of Hydrogen Energy, 2013, 38, 6161-6166. | 7.1 | 12 |
| 48 | Transport and Adhesion of Escherichia coli JM109 in Soil Aquifer Treatment (SAT): One-Dimensional Column Study. Environmental Monitoring and Assessment, 2007, 129, 9-18. | 2.7 | 11 |
| 49 | Impact of conditioning film on the initial adhesion of E. coli on polysulfone ultrafiltration membrane. Journal of Industrial and Engineering Chemistry, 2014, 20, 1438-1443. | 5.8 | 11 |
| 50 | Incorporation of iron (oxyhydr)oxide nanoparticles with expanded graphite for phosphorus removal and recovery from aqueous solutions. Chemosphere, 2020, 259, 127395. | 8.2 | 11 |
| 51 | Impact of polymeric membrane filtration of oil sands process water on organic compounds quantification. Water Science and Technology, 2014, 70, 771-779. | 2.5 | 10 |
| 52 | Series of Combined Pretreatment Can Affect the Solubilization of Waste-Activated Sludge. Energies, 2020, 13, 4165. | 3.1 | 10 |
| 53 | Novel Hydroxyapatite Beads for the Adsorption of Radionuclides from Decommissioned Nuclear Power Plant Sites. Applied Sciences (Switzerland), 2021, 11, 1746. | 2.5 | 10 |
| 54 | The role of electrical voltage application in enhancing anaerobic digestion of long chain fatty acids: Connection Matters!. Chemical Engineering Journal, 2021, 425, 131545. | 12.7 | 10 |

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|---|---|---|---|
| 55 | High performance all-carbon composite transparent electrodes containing uniform carbon nanotube networks. Journal of Alloys and Compounds, 2016, 675, 37-45. | 5.5 | 9 |
| 56 | Development of a rotary disc voltammetric sensor system for semi-continuous and on-site measurements of Pb(II). Chemosphere, 2016, 143, 78-84. | 8.2 | 9 |
| 57 | Combined coagulation/ceramic membrane ultrafiltration system for reclamation of degreasing washing water. Desalination and Water Treatment, 2016, 57, 7479-7486. | 1.0 | 8 |
| 58 | High-calorific bio-hydrogen production under self-generated high-pressure condition. Bioresource Technology, 2018, 264, 174-179. | 9.6 | 8 |
| 59 | Electrocatalytic CO<sub>2</sub> Reduction via a Permeable CNT Hollow-Fiber Electrode Incorporated with SnO<sub>2</sub> Nanoparticles. ACS Sustainable Chemistry and Engineering, 2020, 8, 2117-2121. | 6.7 | 8 |
| 60 | Selective removal of Na+ by NaTi2(PO4)3-MWCNT composite hollow-fiber membrane electrode in capacitive deionization. Npj Clean Water, 2022, 5, . | 8.0 | 8 |
| 61 | Sustainable harvesting of aqueous phase fatty acids by expanded graphite and isopropyl alcohol. International Journal of Hydrogen Energy, 2016, 41, 21780-21786. | 7.1 | 7 |
| 62 | Continuous performance of hydrogenotrophic methanogenic mixed cultures: Kinetic and SMP analysis. International Journal of Hydrogen Energy, 2017, 42, 27767-27773. | 7.1 | 7 |
| 63 | Increased biodegradability of low-grade coal wastewater in anaerobic membrane bioreactor by adding yeast wastes. Journal of Environmental Management, 2019, 234, 36-43. | 7.8 | 7 |
| 64 | The impact of gamma-irradiation from radioactive liquid wastewater on polymeric structures of nanofiltration (NF) membranes. Journal of Hazardous Materials, 2021, 403, 123578. | 12.4 | 7 |
| 65 | Stimulation of Biomethane Productivity in Anaerobic Digestion Using Electro-Conductive Carbon-Nanotube Hollow-Fiber Media. Minerals (Basel, Switzerland), 2021, 11, 179. | 2.0 | 7 |
| 66 | Changes in microbial community associated with dechlorination of leftover chloroform in two-stage anaerobic Co-fermentation (H2+CH4) of lipid-extracted microalgae waste with food waste leachate. International Journal of Hydrogen Energy, 2019, 44, 2266-2273. | 7.1 | 6 |
| 67 | Novel preparation of ceramic nanofiltration membrane for the removal of trace organic compounds. , 0, 101, 31-36. | | 6 |
| 68 | Selective removal of color substances by carbon-based adsorbents in livestock wastewater effluents. Environmental Geochemistry and Health, 2020, 42, 1643-1653. | 3.4 | 5 |
| 69 | Direct measurement of cake fouling potentials by powdered activated carbon during microfiltration of surface water. Desalination and Water Treatment, 2016, 57, 7449-7455. | 1.0 | 4 |
| 70 | Role of organic fouling layers on the transport of micropollutants in forward osmosis membrane processes. Journal of Water Process Engineering, 2022, 45, 102469. | 5.6 | 4 |
| 71 | Modeling of a monopolar ion-exchange membrane for nutrient salts removal. Desalination and Water Treatment, 2015, 53, 2825-2830. | 1.0 | 3 |
| 72 | Impact of feed ionic concentration on colloidal and organic fouling of osmoticallyÂdriven membrane process. Desalination and Water Treatment, 2016, 57, 24551-24556. | 1.0 | 3 |

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| 73 | Relating membrane surface properties and flux recovery during the chemical cleaning of forward osmosis membrane. Desalination and Water Treatment, 2016, 57, 26621-26628. | 1.0 | 3 |
| 74 | Three-dimensional hollow fiber type of carbon nanotube electrode for enhanced ion adsorption capacity. , 0, 90, 46-53. | | 3 |
| 75 | Preparation method of standard molecules for the precise estimation of molecular weight cut-off of membranes by gel permeation chromatography. , 0, 180, 74-79. | | 3 |
| 76 | Comparison of Relationship between Solubilization and Methane Productivity on Anaerobic Digestion of Pre-treated Waste Activated Sludge. Daehan Hwan'gyeong Gonghag Hoeji, 2022, 44, 33-40. | 1.1 | 2 |
| 77 | Hydrothermal decoration of iron oxide nanoparticles on expanded graphite for adsorptional of phosphorus. , 2015, , . | | 1 |
| 78 | Relating intrinsic membrane water permeability and fouling propensity in forward osmosis processes. , 0, 77, 122-128. | | 1 |
| 79 | Electrical voltage application as a novel approach for facilitating methanogenic granulation. Bioresource Technology, 2022, 360, 127632. | 9.6 | 1 |