

Alicia Kyoungjin An

List of Publications by Citations

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101
papers

3,022
citations

31
h-index

52
g-index

105
ext. papers

3,898
ext. citations

9.1
avg, IF

6.13
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 101 | PDMS/PVDF hybrid electrospun membrane with superhydrophobic property and drop impact dynamics for dyeing wastewater treatment using membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 525, 57-67 | 9.6 | 243 |
| 100 | High flux and antifouling properties of negatively charged membrane for dyeing wastewater treatment by membrane distillation. <i>Water Research</i> , 2016 , 103, 362-371 | 12.5 | 151 |
| 99 | Electrospun nanofiber membranes incorporating fluorosilane-coated TiO ₂ nanocomposite for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 520, 145-154 | 9.6 | 135 |
| 98 | Possible cause of excess sludge reduction in an oxic-settling-anaerobic activated sludge process (OSA process). <i>Water Research</i> , 2003 , 37, 3855-66 | 12.5 | 109 |
| 97 | Electrospun dual-layer nonwoven membrane for desalination by air gap membrane distillation. <i>Desalination</i> , 2017 , 403, 187-198 | 10.3 | 107 |
| 96 | Removal of oil from water using magnetic bicomponent composite nanofibers fabricated by electrospinning. <i>Composites Part B: Engineering</i> , 2015 , 77, 311-318 | 10 | 104 |
| 95 | Anti-wetting behavior of negatively charged superhydrophobic PVDF membranes in direct contact membrane distillation of emulsified wastewaters. <i>Journal of Membrane Science</i> , 2017 , 535, 230-238 | 9.6 | 101 |
| 94 | Advanced multi-nozzle electrospun functionalized titanium dioxide/polyvinylidene fluoride-co-hexafluoropropylene (TiO ₂ /PVDF-HFP) composite membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 524, 712-720 | 9.6 | 99 |
| 93 | Removal of organic micropollutants using advanced membrane-based water and wastewater treatment: A review. <i>Journal of Membrane Science</i> , 2020 , 598, 117672 | 9.6 | 99 |
| 92 | CNTs reinforced super-hydrophobic-oleophilic electrospun polystyrene oil sorbent for enhanced sorption capacity and reusability. <i>Chemical Engineering Journal</i> , 2017 , 314, 526-536 | 14.7 | 77 |
| 91 | Engineering the Re-Entrant Hierarchy and Surface Energy of PDMS-PVDF Membrane for Membrane Distillation Using a Facile and Benign Microsphere Coating. <i>Environmental Science & Technology</i> , 2017 , 51, 10117-10126 | 10.3 | 76 |
| 90 | Fouling behavior of negatively charged PVDF membrane in membrane distillation for removal of antibiotics from wastewater. <i>Journal of Membrane Science</i> , 2018 , 551, 12-19 | 9.6 | 72 |
| 89 | Enhanced vapor transport in membrane distillation via functionalized carbon nanotubes anchored into electrospun nanofibres. <i>Scientific Reports</i> , 2017 , 7, 41562 | 4.9 | 71 |
| 88 | Electrospun Nanofiber Membranes Incorporating PDMS-Aerogel Superhydrophobic Coating with Enhanced Flux and Improved Antiwettability in Membrane Distillation. <i>Environmental Science & Technology</i> , 2019 , 53, 4948-4958 | 10.3 | 64 |
| 87 | Regional energy-related carbon emission characteristics and potential mitigation in eco-industrial parks in South Korea: Logarithmic mean Divisia index analysis based on the Kaya identity. <i>Energy</i> , 2012 , 46, 231-241 | 7.9 | 62 |
| 86 | Solvothermal synthesis of copper-doped BiOBr microflowers with enhanced adsorption and visible-light driven photocatalytic degradation of norfloxacin. <i>Chemical Engineering Journal</i> , 2020 , 401, 126012 | 14.7 | 60 |
| 85 | Theoretical modeling and experimental validation of transport and separation properties of carbon nanotube electrospun membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 526, 395-408 | 9.6 | 59 |

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| 84 | Potential for energy recovery and greenhouse gas reduction through waste-to-energy technologies. <i>Journal of Cleaner Production</i> , 2018 , 176, 503-511 | 10.3 | 57 |
| 83 | Omniphobic re-entrant PVDF membrane with ZnO nanoparticles composite for desalination of low surface tension oily seawater. <i>Water Research</i> , 2019 , 165, 114982 | 12.5 | 56 |
| 82 | Patterned superhydrophobic polyvinylidene fluoride (PVDF) membranes for membrane distillation: Enhanced flux with improved fouling and wetting resistance. <i>Journal of Membrane Science</i> , 2020 , 595, 117596 | 9.6 | 45 |
| 81 | Regeneration of superhydrophobic TiO ₂ electrospun membranes in seawater desalination by water flushing in membrane distillation. <i>Desalination</i> , 2019 , 468, 114054 | 10.3 | 44 |
| 80 | Reinforced superhydrophobic membrane coated with aerogel-assisted polymeric microspheres for membrane distillation. <i>Journal of Membrane Science</i> , 2019 , 573, 570-578 | 9.6 | 42 |
| 79 | Mechanistic insight into the in vitro toxicity of graphene oxide against biofilm forming bacteria using laser-induced breakdown spectroscopy. <i>Nanoscale</i> , 2018 , 10, 4475-4487 | 7.7 | 41 |
| 78 | Efficient removal of zinc from water and wastewater effluents by hydroxylated and carboxylated carbon nanotube membranes: Behaviors and mechanisms of dynamic filtration. <i>Journal of Hazardous Materials</i> , 2019 , 365, 64-73 | 12.8 | 40 |
| 77 | Macro-corrugated and nano-patterned hierarchically structured superomniphobic membrane for treatment of low surface tension oily wastewater by membrane distillation. <i>Water Research</i> , 2020 , 174, 115600 | 12.5 | 39 |
| 76 | Multi-purpose rainwater harvesting for water resource recovery and the cooling effect. <i>Water Research</i> , 2015 , 86, 116-21 | 12.5 | 36 |
| 75 | Development of the compact city index and its application to Japanese cities. <i>Urban Studies</i> , 2015 , 52, 1054-1070 | 3.2 | 35 |
| 74 | Characterizing flat sheet membrane resistance fraction of chemically enhanced backflush. <i>Chemical Engineering Journal</i> , 2016 , 284, 61-67 | 14.7 | 34 |
| 73 | Chemical Oxygen Demand and the Mechanism of Excess Sludge Reduction in an Oxidic-Settling-Anaerobic Activated Sludge Process. <i>Journal of Environmental Engineering, ASCE</i> , 2008 , 134, 469-477 | 2 | 32 |
| 72 | Increased adsorption of aqueous zinc species by Ar/O ₂ plasma-treated carbon nanotubes immobilized in hollow-fiber ultrafiltration membrane. <i>Chemical Engineering Journal</i> , 2017 , 325, 239-248 | 14.7 | 31 |
| 71 | Self-cleaning BiOBr/Ag photocatalytic membrane for membrane regeneration under visible light in membrane distillation. <i>Chemical Engineering Journal</i> , 2019 , 378, 122137 | 14.7 | 30 |
| 70 | Significance of microporosity on the interaction of phenol with porous graphitic carbon. <i>Chemical Engineering Journal</i> , 2015 , 269, 20-26 | 14.7 | 30 |
| 69 | Life cycle assessment (LCA) of food waste treatment in Hong Kong: On-site fermentation methodology. <i>Journal of Environmental Management</i> , 2019 , 240, 343-351 | 7.9 | 29 |
| 68 | Superhydrophobic membrane by hierarchically structured PDMS-POSS electro spray coating with cauliflower-shaped beads for enhanced MD performance. <i>Journal of Membrane Science</i> , 2020 , 597, 117638 | 9.6 | 29 |
| 67 | High-performance nanofiltration membrane structured with enhanced stripe nano-morphology. <i>Journal of Membrane Science</i> , 2020 , 600, 117852 | 9.6 | 28 |

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| 66 | Understanding fouling dynamics on functionalized CNT-based membranes: Mechanisms and reversibility. <i>Desalination</i> , 2019 , 456, 74-84 | 10.3 | 28 |
| 65 | Influence of ligands on metal speciation, transport and toxicity in a tropical river during wet (monsoon) period. <i>Chemosphere</i> , 2016 , 163, 322-333 | 8.4 | 26 |
| 64 | Bacterial inactivation and in situ monitoring of biofilm development on graphene oxide membrane using optical coherence tomography. <i>Journal of Membrane Science</i> , 2018 , 564, 22-34 | 9.6 | 26 |
| 63 | Self-Assembled Hydrophobic/Hydrophilic Porphyrin-TiCT MXene Janus Membrane for Dual-Functional Enabled Photothermal Desalination. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3762-3770 | 9.5 | 25 |
| 62 | Significance of Effective Surface area of activated carbons on elucidating the adsorption mechanism of large dye molecules. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 1029-1037 | 6.8 | 24 |
| 61 | Cluster analysis for characterization of rainfalls and CSO behaviours in an urban drainage area of Tokyo. <i>Water Science and Technology</i> , 2013 , 68, 544-51 | 2.2 | 24 |
| 60 | Low-cost bio-based sustainable removal of lead and cadmium using a polyphenolic bioactive Indian curry leaf (<i>Murraya koengii</i>) powder. <i>International Journal of Hygiene and Environmental Health</i> , 2020 , 226, 113471 | 6.9 | 21 |
| 59 | Enhanced ammonia recovery from wastewater by Nafion membrane with highly porous honeycomb nanostructure and its mechanism in membrane distillation. <i>Journal of Membrane Science</i> , 2019 , 590, 117265 | 9.6 | 21 |
| 58 | Smart Food Waste Recycling Bin (S-FRB) to turn food waste into green energy resources. <i>Journal of Environmental Management</i> , 2019 , 234, 290-296 | 7.9 | 21 |
| 57 | Robust dual-layered omniphobic electrospun membrane with anti-wetting and anti-scaling functionalised for membrane distillation application. <i>Journal of Membrane Science</i> , 2021 , 624, 119089 | 9.6 | 20 |
| 56 | PAA@ZIF-8 incorporated nanofibrous membrane for high-efficiency PM2.5 capture. <i>Chemical Engineering Journal</i> , 2021 , 405, 126584 | 14.7 | 20 |
| 55 | Evaluation of anti-bacterial adhesion performance of polydopamine cross-linked graphene oxide RO membrane via in situ optical coherence tomography. <i>Desalination</i> , 2020 , 479, 114339 | 10.3 | 18 |
| 54 | Elucidating the fouling mechanism in pharmaceutical wastewater treatment by membrane distillation. <i>Desalination</i> , 2020 , 475, 114148 | 10.3 | 18 |
| 53 | Superhydrophobic (polyvinylidene fluoride-co-hexafluoropropylene)/ (polystyrene) composite membrane via a novel hybrid electrospin-electrospray process. <i>Journal of Membrane Science</i> , 2020 , 611, 118360 | 9.6 | 16 |
| 52 | Mitigation of algal organic matter released from <i>Chaetoceros affinis</i> and <i>Hymenomonas</i> by in situ generated ferrate. <i>Chemosphere</i> , 2018 , 206, 718-726 | 8.4 | 15 |
| 51 | Pilot study for the potential application of a shortcut nitrification and denitrification process in landfill leachate treatment with MBR. <i>Water Science and Technology: Water Supply</i> , 2006 , 6, 147-154 | 1.4 | 14 |
| 50 | Emerging investigator series: control of membrane fouling by dissolved algal organic matter using pre-oxidation with coagulation as seawater pretreatment. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 935-944 | 4.2 | 13 |
| 49 | Hydrophobic surface modification of membrane distillation (MD) membranes using water-repelling polymer based on urethane rubber. <i>Desalination and Water Treatment</i> , 2016 , 57, 10031-10041 | | 12 |

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|----|---|------|----|
| 48 | A mechanistic study of in situ chemical cleaning-in-place for a PTFE flat sheet membrane: fouling mitigation and membrane characterization. <i>Biofouling</i> , 2016 , 32, 301-12 | 3.3 | 12 |
| 47 | Study of the salinity effects on the cooling and desalination performance of an adsorption cooling cum desalination system with a novel composite adsorbent. <i>Applied Thermal Engineering</i> , 2020 , 181, 115879 | 5.8 | 12 |
| 46 | Hong Kong's greenhouse gas emissions from the waste sector and its projected changes by integrated waste management facilities. <i>Journal of Cleaner Production</i> , 2017 , 149, 690-700 | 10.3 | 11 |
| 45 | High-efficiency solar-driven water desalination using a thermally isolated plasmonic membrane. <i>Journal of Cleaner Production</i> , 2020 , 271, 122684 | 10.3 | 11 |
| 44 | Plasmonic Titanium Nitride Nano-enabled Membranes with High Structural Stability for Efficient Photothermal Desalination. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3805-3815 | 9.5 | 11 |
| 43 | Aluminosilicate-based adsorbent in equimolar and non-equimolar binary-component heavy metal removal systems. <i>Water Science and Technology</i> , 2015 , 72, 2166-78 | 2.2 | 10 |
| 42 | Partial nitrification for subsequent Anammox to treat high-ammonium leachate. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 1063-8 | 2.6 | 10 |
| 41 | Photothermally enabled MXene hydrogel membrane with integrated solar-driven evaporation and photodegradation for efficient water purification. <i>Chemical Engineering Journal</i> , 2022 , 430, 133054 | 14.7 | 10 |
| 40 | Flame-made amorphous solid acids with tunable acidity for the aqueous conversion of glucose to levulinic acid. <i>Green Chemistry</i> , 2020 , 22, 688-698 | 10 | 10 |
| 39 | Molecular engineering low-surface energy membranes by grafting perfluoro-tert-butoxy chains containing fluorosilica aerogels. <i>Green Chemistry</i> , 2020 , 22, 3283-3295 | 10 | 9 |
| 38 | Hierarchical Janus membrane via a sequential electrospray coating method with wetting and fouling resistance for membrane distillation. <i>Desalination</i> , 2021 , 520, 115313 | 10.3 | 9 |
| 37 | Optimization of acid pretreatment and enzymatic hydrolysis on the production of ethanol fuel from waste banana peels. <i>Energy and Environment</i> , 2018 , 29, 1354-1364 | 2.4 | 8 |
| 36 | Estimation of energy efficiency for educational buildings in Hong Kong. <i>Journal of Cleaner Production</i> , 2019 , 235, 453-460 | 10.3 | 8 |
| 35 | Quantifying and managing regional greenhouse gas emissions: waste sector of Daejeon, Korea. <i>Journal of Environmental Sciences</i> , 2014 , 26, 1249-59 | 6.4 | 8 |
| 34 | Whole sugar 2,3-butanediol fermentation for oil palm empty fruit bunches biorefinery by a newly isolated <i>Klebsiella pneumoniae</i> PM2. <i>Bioresource Technology</i> , 2021 , 333, 125206 | 11 | 8 |
| 33 | Simple Method for Calculating Hydraulic Behavior of Combined Sewer Overflow from Rainfall Event Data. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04018061 | 2.8 | 5 |
| 32 | Incorporation of negatively charged silver nanoparticles in outer-selective hollow fiber forward osmosis (OSHF-FO) membrane for wastewater dewatering. <i>Desalination</i> , 2022 , 522, 115402 | 10.3 | 5 |
| 31 | Technical and economic analysis of an advanced multi-stage flash crystallizer for the treatment of concentrated brine. <i>Desalination</i> , 2021 , 503, 114925 | 10.3 | 5 |

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| 30 | Effective suppression of concentration polarization by nanofiltration membrane surface pattern manipulation: Numerical modeling based on LIF visualization. <i>Journal of Membrane Science</i> , 2021 , 622, 119021 | 9.6 | 5 |
| 29 | Membrane distillation bioreactor (MDBR) for wastewater treatment, water reuse, and resource recovery: A review. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102687 | 6.7 | 5 |
| 28 | Superhydrophobic and superoleophilic PH-CNT membrane for emulsified oil-water separation. <i>Desalination</i> , 2022 , 526, 115536 | 10.3 | 4 |
| 27 | Analyzing the effects of institutional capacity on sustainable water governance. <i>Sustainability Science</i> , 2021 , 16, 169-181 | 6.4 | 4 |
| 26 | Multifunctional hybrid UF membrane from poly(ether sulfone) and quaternized polydopamine anchored reduced graphene oxide nanohybrid for water treatment. <i>Journal of Membrane Science</i> , 2021 , 639, 119779 | 9.6 | 4 |
| 25 | Fabrication of robust green superhydrophobic hybrid nanofiber-nanosphere membrane for membrane distillation. <i>Desalination</i> , 2021 , 520, 115314 | 10.3 | 4 |
| 24 | The influence of field-oriented environmental education on leadership development. <i>Procedia, Social and Behavioral Sciences</i> , 2011 , 15, 1271-1275 | | 3 |
| 23 | Hybrid nanobubble-forward osmosis system for aquaculture wastewater treatment and reuse. <i>Chemical Engineering Journal</i> , 2022 , 435, 135164 | 14.7 | 3 |
| 22 | Low-pressure volume retarded osmosis for removal of per- and polyfluoroalkyl substances. <i>Water Research</i> , 2021 , 194, 116929 | 12.5 | 2 |
| 21 | Resources recycle of traditional Chinese medicine (TCM) wastewater 1: Effectiveness of the UF-MD hybrid system and MD process optimization. <i>Desalination</i> , 2021 , 504, 114953 | 10.3 | 2 |
| 20 | Investigation of fouling mechanism in membrane distillation using in-situ optical coherence tomography with green regeneration of fouled membrane. <i>Journal of Membrane Science</i> , 2021 , 641, 119894 | 9.6 | 2 |
| 19 | A systematic study on the impact of feed composition and substrate wettability on wetting and fouling of omniphobic and janus membranes in membrane distillation. <i>Journal of Membrane Science</i> , 2022 , 641, 119873 | 9.6 | 2 |
| 18 | Amino-embedded carbon quantum dots incorporated thin-film nanocomposite membrane for desalination by pervaporation. <i>Desalination</i> , 2022 , 533, 115742 | 10.3 | 2 |
| 17 | Effects of Coagulant with Different Basicity on Membrane-based Biological Treatment for Removing Phosphorus. <i>Journal of Coastal Research</i> , 2017 , 79, 65-69 | 0.6 | 1 |
| 16 | Colloidal silica fouling mechanism in direct-contact membrane distillation. <i>Desalination</i> , 2022 , 527, 115554 | 10.3 | 1 |
| 15 | Electrospun Nanofiber Membranes for Membrane Distillation 2019 , 107-140 | | 1 |
| 14 | Elucidating the role of graphene oxide layers in enhancing N-Nitrosodimethylamine (NDMA) rejection and antibiofouling property of RO membrane simultaneously. <i>Journal of Membrane Science</i> , 2021 , 120043 | 9.6 | 1 |
| 13 | Nanobubble-assisted scaling inhibition in membrane distillation for the treatment of high-salinity brine.. <i>Water Research</i> , 2021 , 209, 117954 | 12.5 | 1 |

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| 12 | Evaluation of Rainwater Utilization for Miscellaneous Water Demands in Different Types of Buildings Using Geographic Information System. <i>Environmental Engineering Research</i> , 2013 , 18, 85-90 | 3.6 | 1 |
| 11 | A Conductive Hydrophobic Polyaniline Sandwiched Polyvinylidene Fluoride Membrane for Early Detection of Surfactant-Induced Wetting in Membrane Distillation Using Impedance. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 679-690 | 4.3 | 1 |
| 10 | Submerged versus side-stream osmotic membrane bioreactors using an outer-selective hollow fiber osmotic membrane for desalination. <i>Desalination</i> , 2021 , 515, 115196 | 10.3 | 1 |
| 9 | Conductive reverse osmosis membrane for electrochemical chlorine reduction and sustainable brackish water treatment. <i>Chemical Engineering Journal</i> , 2022 , 435, 134858 | 14.7 | 0 |
| 8 | Aminoalkyl-organo-silane treated sand for the adsorptive removal of arsenic from the groundwater: Immobilizing the mobilized geogenic contaminants.. <i>Journal of Hazardous Materials</i> , 2022 , 425, 127916 | 12.8 | 0 |
| 7 | An integrated techno-economic analysis on wastewater reclamation in Hong Kong: A comprehensive cost [Benefit analysis with life cycle assessment. <i>Journal of Cleaner Production</i> , 2022 , 131838 | 10.3 | 0 |
| 6 | Understanding the influence of hydraulic conditions on colloidal fouling development by using the micro-patterned nanofiltration membrane: Experiments and numerical simulation. <i>Journal of Membrane Science</i> , 2022 , 654, 120559 | 9.6 | 0 |
| 5 | Completely Autotrophic Nitrogen-Removal for Treatment of High Ammonia Leachate. <i>Advanced Materials Research</i> , 2010 , 113-116, 662-665 | 0.5 | |
| 4 | Hybrid forward/reverse osmosis (HFRO): an approach for optimized operation and sustainable resource recovery 2022 , 69-94 | | |
| 3 | Environment Modeling for Sustainable Development 2020 , 229-253 | | |
| 2 | A fluorescence-based indicator for nanofiltration fouling propensity caused by effluent organic matter (EfOM). <i>Process Biochemistry</i> , 2020 , 91, 260-270 | 4.8 | |
| 1 | Life Cycle Assessment of the Polyvinylidene Fluoride Polymer with Applications in Various Emerging Technologies. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 5708-5718 | 8.3 | |