

# Namguk Her

## List of Publications by Year in descending order

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64  
papers

5,756  
citations

76322

40  
h-index

118840

62  
g-index

64  
all docs

64  
docs citations

64  
times ranked

6863  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of adsorption membrane hybrid systems for water and wastewater treatment. <i>Chemosphere</i> , 2022, 286, 131916.	8.2	83
2	Boron nitride-based nanomaterials as adsorbents in water: A review. <i>Separation and Purification Technology</i> , 2022, 288, 120637.	7.9	18
3	Selected advanced water treatment technologies for perfluoroalkyl and polyfluoroalkyl substances: A review. <i>Separation and Purification Technology</i> , 2020, 231, 115929.	7.9	76
4	Removal of contaminants of emerging concern by FO, RO, and UF membranes in water and wastewater. , 2020, , 139-176.		21
5	Effective removal of Pb( <sup>ii</sup> ) from synthetic wastewater using Ti <sub>3</sub> C <sub>2</sub> TX MXene. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 173-180.	2.4	62
6	Comprehensive evaluation on removal of lead by graphene oxide and metal organic framework. <i>Chemosphere</i> , 2019, 231, 82-92.	8.2	65
7	Enhanced sonocatalytic degradation of carbamazepine and salicylic acid using a metal-organic framework. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 174-182.	8.2	65
8	Review of MXenes as new nanomaterials for energy storage/delivery and selected environmental applications. <i>Nano Research</i> , 2019, 12, 471-487.	10.4	358
9	Sonocatalytic degradation of carbamazepine and diclofenac in the presence of graphene oxides in aqueous solution. <i>Chemosphere</i> , 2018, 205, 719-727.	8.2	44
10	Aggregation of reduced graphene oxide and its nanohybrids with magnetite and elemental silver under environmentally relevant conditions. <i>Journal of Nanoparticle Research</i> , 2018, 20, 93.	1.9	15
11	Photocatalytic degradation of acesulfame K: Optimization using the Box Behnken design (BBD). <i>Chemical Engineering Research and Design</i> , 2018, 113, 10-21.	5.6	97
12	Fabrication of graphene-oxide/ <sup>2</sup> -Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> /Bi <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> heterojuncted nanocomposite and its sonocatalytic degradation for selected pharmaceuticals. <i>Chemosphere</i> , 2018, 212, 723-733.	8.2	34
13	Influence of solution pH, ionic strength, and humic acid on cadmium adsorption onto activated biochar: Experiment and modeling. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 48, 186-193.	5.8	130
14	Evaluation of performance with small and scale-up rotating and flat reactors; photocatalytic degradation of bisphenol A, 17 <sup>β</sup> -estradiol, and 17 <sup>α</sup> -ethynyl estradiol under solar irradiation. <i>Journal of Hazardous Materials</i> , 2017, 336, 21-32.	12.4	24
15	Aggregation kinetics of single walled carbon nanotubes influenced by the frequency of ultrasound irradiation in the aquatic environment. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 750-757.	8.2	11
16	Evaluation of Removal Mechanisms in a Graphene Oxide-Coated Ceramic Ultrafiltration Membrane for Retention of Natural Organic Matter, Pharmaceuticals, and Inorganic Salts. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40369-40377.	8.0	80
17	Ultrasonic treatment of endocrine disrupting compounds, pharmaceuticals, and personal care products in water: A review. <i>Chemical Engineering Journal</i> , 2017, 327, 629-647.	12.7	123
18	Occurrence and Removal of Engineered Nanoparticles in Drinking Water Treatment and Wastewater Treatment Processes. <i>Separation and Purification Reviews</i> , 2017, 46, 255-272.	5.5	53

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19	Photodegradation of benzene and phenanthrene in aqueous solution using pulsed ultraviolet light. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 1607-1613.	1.9	4
20	Evaluation of Humic Acid and Tannic Acid Fouling in Graphene Oxide-Coated Ultrafiltration Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22270-22279.	8.0	56
21	Modeling the effects of surfactant, hardness, and natural organic matter on deposition and mobility of silver nanoparticles in saturated porous media. <i>Water Research</i> , 2016, 103, 38-47.	11.3	33
22	Environmental behavior of engineered nanomaterials in porous media: a review. <i>Journal of Hazardous Materials</i> , 2016, 309, 133-150.	12.4	90
23	Sorptive removal of selected emerging contaminants using biochar in aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 364-371.	5.8	71
24	A new fluorescence index with a fluorescence excitation-emission matrix for dissolved organic matter (DOM) characterization. <i>Desalination and Water Treatment</i> , 2016, 57, 20270-20282.	1.0	24
25	Organic fouling and reverse solute selectivity in forward osmosis: Role of working temperature and inorganic draw solutions. <i>Desalination</i> , 2016, 389, 162-170.	8.2	46
26	Ultrathin graphene oxide membranes for the removal of humic acid. <i>Separation and Purification Technology</i> , 2015, 144, 162-167.	7.9	73
27	Simultaneously photocatalytic treatment of hexavalent chromium (Cr(VI)) and endocrine disrupting compounds (EDCs) using rotating reactor under solar irradiation. <i>Journal of Hazardous Materials</i> , 2015, 288, 124-133.	12.4	33
28	Removal of endocrine disrupting compounds, pharmaceuticals, and personal care products in water using carbon nanotubes: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 27, 1-11.	5.8	235
29	Adsorption characteristics of diclofenac and sulfamethoxazole to graphene oxide in aqueous solution. <i>Chemosphere</i> , 2015, 136, 20-26.	8.2	221
30	Stabilization and dispersion of carbon nanomaterials in aqueous solutions: A review. <i>Separation and Purification Technology</i> , 2015, 156, 861-874.	7.9	70
31	Sonocatalytic-TiO <sub>2</sub> nanotube, Fenton, and CCl <sub>4</sub> reactions for enhanced oxidation, and their applications to acetaminophen and naproxen degradation. <i>Separation and Purification Technology</i> , 2015, 141, 1-9.	7.9	60
32	Enhanced ultrasonic degradation of acetaminophen and naproxen in the presence of powdered activated carbon and biochar adsorbents. <i>Separation and Purification Technology</i> , 2014, 123, 96-105.	7.9	72
33	Occurrence of perchlorate in rice from different areas in the Republic of Korea. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1251-1257.	5.3	20
34	Adsorption characteristics of selected hydrophilic and hydrophobic micropollutants in water using activated carbon. <i>Journal of Hazardous Materials</i> , 2014, 270, 144-152.	12.4	357
35	Self-rotating photocatalytic system for aqueous Cr(VI) reduction on TiO <sub>2</sub> nanotube/Ti mesh substrate. <i>Chemical Engineering Journal</i> , 2013, 229, 66-71.	12.7	40
36	Adsorption of selected endocrine disrupting compounds and pharmaceuticals on activated biochars. <i>Journal of Hazardous Materials</i> , 2013, 263, 702-710.	12.4	294

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37	Ultrasonic degradation of acetaminophen and naproxen in the presence of single-walled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2013, 254-255, 284-292.	12.4	65
38	Comparison of flux behavior and synthetic organic compound removal by forward osmosis and reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2013, 443, 69-82.	8.2	68
39	Hexavalent chromium removal by various adsorbents: Powdered activated carbon, chitosan, and single/multi-walled carbon nanotubes. <i>Separation and Purification Technology</i> , 2013, 106, 63-71.	7.9	287
40	Natural organic matter removal in single-walled carbon nanotubes-ultrafiltration membrane systems. <i>Desalination</i> , 2012, 298, 75-84.	8.2	34
41	Removal of bisphenol A and 17 $\beta$ -estradiol in single walled carbon nanotubes-ultrafiltration (SWNTs-UF) membrane systems. <i>Separation and Purification Technology</i> , 2012, 90, 39-52.	7.9	111
42	Sonocatalytic Degradation of Naphthalene and Phenol in the Presence of Inert Glass Beads and Single-Walled Carbon Nanotubes. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2012, 7, 522-529.	0.5	7
43	Removal of Perchlorate Using Reverse Osmosis and Nanofiltration Membranes. <i>Environmental Engineering Research</i> , 2012, 17, 185-190.	2.5	15
44	Perchlorate in Soybean Sprouts ( <i>Glycine max</i> L. Merr.), Water Dropwort ( <i>Oenanthe stolonifera</i> DC.), and Lotus ( <i>Nelumbo nucifera</i> Gaertn.) Root in South Korea. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 7490-7495.	5.2	22
45	Comparative Study of Sonocatalytic Enhancement for Removal of Bisphenol A and 17 $\beta$ -Ethinyl Estradiol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 6638-6645.	3.7	13
46	Occurrence of Perchlorate in Drinking Water and Seawater in South Korea. <i>Archives of Environmental Contamination and Toxicology</i> , 2011, 61, 166-172.	4.1	39
47	Sonocatalytic degradation of bisphenol A and 17 $\beta$ -ethinyl estradiol in the presence of stainless steel wire mesh catalyst in aqueous solution. <i>Separation and Purification Technology</i> , 2011, 78, 228-236.	7.9	30
48	Sonochemical enhancement of hydrogen peroxide production by inert glass beads and TiO <sub>2</sub> -coated glass beads in water. <i>Chemical Engineering Journal</i> , 2011, 166, 184-190.	12.7	41
49	Ultrasonic degradation of bisphenol A, 17 $\beta$ -estradiol, and 17 $\beta$ -ethinyl. <i>Desalination and Water Treatment</i> , 2011, 30, 300-309.	1.0	24
50	Removal of micropollutants and NOM in carbon nanotube-UF membrane system from seawater. <i>Water Science and Technology</i> , 2011, 63, 2737-2744.	2.5	30
51	Perchlorate in dairy milk and milk-based powdered infant formula in South Korea. <i>Chemosphere</i> , 2010, 81, 732-737.	8.2	44
52	Characterizing dissolved organic matter and evaluating associated nanofiltration membrane fouling. <i>Chemosphere</i> , 2008, 70, 495-502.	8.2	107
53	UV absorbance ratio index with size exclusion chromatography (URI-SEC) as an NOM property indicator. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2008, 57, 35-44.	1.4	70
54	Identification of nanofiltration membrane foulants. <i>Water Research</i> , 2007, 41, 3936-3947.	11.3	128

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55	Effects of retained natural organic matter (NOM) on NOM rejection and membrane flux decline with nanofiltration and ultrafiltration. <i>Desalination</i> , 2005, 173, 209-221.	8.2	68
56	Determination of Perchlorate Rejection and Associated Inorganic Fouling (Scaling) for Reverse Osmosis and Nanofiltration Membranes under Various Operating Conditions. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 726-733.	1.4	12
57	Size Exclusion Chromatography To Characterize DOC Removal in Drinking Water Treatment. <i>Environmental Science &amp; Technology</i> , 2005, 39, 2334-2342.	10.0	181
58	Characterizing algogenic organic matter (AOM) and evaluating associated NF membrane fouling. <i>Water Research</i> , 2004, 38, 1427-1438.	11.3	293
59	Characterization of DOM as a function of MW by fluorescence EEM and HPLC-SEC using UVA, DOC, and fluorescence detection. <i>Water Research</i> , 2003, 37, 4295-4303.	11.3	437
60	Optimization of Method for Detecting and Characterizing NOM by HPLC-Size Exclusion Chromatography with UV and On-Line DOC Detection. <i>Environmental Science &amp; Technology</i> , 2002, 36, 1069-1076.	10.0	193
61	Variations of Molecular Weight Estimation by HP-Size Exclusion Chromatography with UVA versus Online DOC Detection. <i>Environmental Science &amp; Technology</i> , 2002, 36, 3393-3399.	10.0	115
62	Transport of perchlorate ( $\text{ClO}_4^-$ ) through NF and UF membranes. <i>Desalination</i> , 2002, 147, 11-17.	8.2	49
63	Seasonal variations of nanofiltration (NF) foulants: identification and control. <i>Desalination</i> , 2000, 132, 143-160.	8.2	99
64	Adsorption of selected micropollutants on powdered activated carbon and biochar in the presence of kaolinite. <i>Desalination and Water Treatment</i> , 0, , 1-13.	1.0	16