Jae-Hong Kim

List of Publications by Year in Descending Order

178 papers	11,154 citations	55 h-index	101 g-index
189 ext. papers	14,182 ext. citations	10 avg, IF	7.09 L-index

#	Paper	IF	Citations
178	Engineered Nanoconfinement Accelerating Spontaneous Manganese-Catalyzed Degradation of Organic Contaminants. *Environmental Science & Technology*, **2021**,	10.3	4
177	Selective Fluoride Transport in Subnanometer TiO Pores. *ACS Nano*, **2021**, 15, 16828-16838	16.7	2
176	Electrified Membranes for Water Treatment Applications. *ACS ES&T Engineering*, **2021**, 1, 725-752		33
175	Environmental Applications of Engineered Materials with Nanoconfinement. *ACS ES&T Engineering*, **2021**, 1, 706-724		14
174	Conflicting Roles of Coordination Number on Catalytic Performance of Single-Atom Pt Catalysts. *ACS Catalysis*, **2021**, 11, 5586-5592	13.1	5
173	Membrane-Confined Iron Oxychloride Nanocatalysts for Highly Efficient Heterogeneous Fenton Water Treatment. *Environmental Science & Technology*, **2021**, 55, 9266-9275	10.3	23
172	Farm-to-Tap Water Treatment: Naturally-Sourced Photosensitizers for Enhanced Solar Disinfection of Drinking Water. *ACS ES&T Engineering*, **2021**, 1, 86-99		10
171	Environmental Materials beyond and below the Nanoscale: Single-Atom Catalysts. *ACS ES&T Engineering*, **2021**, 1, 157-172		27
170	Cobalt Single Atoms on Tetrapyridomacrocyclic Support for Efficient Peroxymonosulfate Activation. *Environmental Science & Technology*, **2021**, 55, 1242-1250	10.3	47
169	Hand-ground fullerene-nanodiamond composite for photosensitized water treatment and photodynamic cancer therapy. *Journal of Colloid and Interface Science*, **2021**, 587, 101-109	9.3	4
168	Modular Hydrogen Peroxide Electrosynthesis Cell with Anthraquinone-Modified Polyaniline Electrocatalyst. *ACS ES&T Engineering*, **2021**, 1, 446-455		4
167	Measuring temperature heterogeneities during solar-photothermal heating using quantum dot nanothermometry. *Analyst, The*, **2021**, 146, 2048-2056	5	
166	Microstructural origin of selective water oxidation to hydrogen peroxide at low overpotentials: a study on Mn-alloyed TiO2. *Journal of Materials Chemistry A*, **2021**, 9, 18498-18505	13	2
165	Site-Selective Loading of Single-Atom Pt on TiO2 for Photocatalytic Oxidation and Reductive Hydrodefluorination. *ACS ES&T Engineering*, **2021**, 1, 512-522		10
164	Yale School of Public Health Symposium: An overview of the challenges and opportunities associated with per- and polyfluoroalkyl substances (PFAS). *Science of the Total Environment*, **2021**, 778, 146192	10.2	4
163	Occurrence of unknown reactive species in UV/HO system leading to false interpretation of hydroxyl radical probe reactions. *Water Research*, **2021**, 201, 117338	12.5	5
162	Neighboring Pd single atoms surpass isolated single atoms for selective hydrodehalogenation catalysis. *Nature Communications*, **2021**, 12, 5179	17.4	14

161	Elucidating the Role of Single-Atom Pd for Electrocatalytic Hydrodechlorination. *Environmental Science & Technology*, **2021**, 55, 13306-13316	10.3	0
160	Utilizing the Broad Electromagnetic Spectrum and Unique Nanoscale Properties for Chemical-Free Water Treatment. *Current Opinion in Chemical Engineering*, **2021**, 33, 100709-100709	5.4	0
159	Different roles of Fe atoms and nanoparticles on g-C3N4 in regulating the reductive activation of ozone under visible light. *Applied Catalysis B: Environmental*, **2021**, 296, 120362	21.8	14
158	Plasmon-enabled degradation of organic micropollutants in water by visible-light illumination of Janus gold nanorods. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15473-15481	11.5	17
157	Enhanced Pollutant Adsorption and Regeneration of Layered Double Hydroxide-Based Photoregenerable Adsorbent. *Environmental Science & Technology*, **2020**, 54, 9106-9115	10.3	13
156	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater a perspective. *Environmental Science: Nano*, **2020**, 7, 2178-2194	7.1	31
155	Spatially separating redox centers on 2D carbon nitride with cobalt single atom for photocatalytic HO production. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 6376-6382	11.5	95
154	Hierarchical BiOCO wrapped with modified graphene oxide for adsorption-enhanced photocatalytic inactivation of antibiotic resistant bacteria and resistance genes. *Water Research*, **2020**, 184, 116157	12.5	26
153	Accelerated oxidation of microcystin-LR by Fe(II)-tetrapolyphosphate/oxygen in the presence of magnesium and calcium ions. *Water Research*, **2020**, 184, 116172	12.5	
152	Persulfate-Based Advanced Oxidation: Critical Assessment of Opportunities and Roadblocks. *Environmental Science & Technology*, **2020**, 54, 3064-3081	10.3	605
151	Intrapore energy barriers govern ion transport and selectivity of desalination membranes. *Science Advances*, **2020**, 6,	14.3	58
150	Mechanism of Heterogeneous Fenton Reaction Kinetics Enhancement under Nanoscale Spatial Confinement. *Environmental Science & Technology*, **2020**, 54, 10868-10875	10.3	56
149	Versatile Yolk-Shell Encapsulation: Catalytic, Photothermal, and Sensing Demonstration. *Small*, **2020**, 16, e2002311	11	10
148	Amorphous Pd-Loaded TiO Electrode for Direct Anodic Destruction of Perfluorooctanoic Acid. *Environmental Science & Technology*, **2020**, 54, 10954-10963	10.3	32
147	Titanium Dioxide-Layered Double Hydroxide Composite Material for Adsorption-Photocatalysis of Water Pollutants. *Langmuir*, **2019**, 35, 8699-8708	4	24
146	Nanoparticle Enhanced Interfacial Solar Photothermal Water Disinfection Demonstrated in 3-D Printed Flow-Through Reactors. *Environmental Science & Technology*, **2019**, 53, 7621-7631	10.3	14
145	Triplet-Triplet Annihilation Upconversion in Broadly Absorbing Layered Film Systems for Sub-Bandgap Photocatalysis. *ACS Applied Materials & Interfaces*, **2019**, 11, 13304-13318	9.5	21
144	Water Disinfection in Rural Areas Demands Unconventional Solar Technologies. *Accounts of Chemical Research*, **2019**, 52, 1187-1195	24.3	42

143	Cooperative Pollutant Adsorption and Persulfate-Driven Oxidation on Hierarchically Ordered Porous Carbon. *Environmental Science & Technology*, **2019**, 53, 10352-10360	10.3	66
142	1,4-Dioxane as an emerging water contaminant: State of the science and evaluation of research needs. *Science of the Total Environment*, **2019**, 690, 853-866	10.2	43
141	Cathodic Hydrogen Peroxide Electrosynthesis Using Anthraquinone Modified Carbon Nitride on Gas Diffusion Electrode. *ACS Applied Energy Materials*, **2019**, 2, 7972-7979	6.1	10
140	Electronic Tuning of Metal Nanoparticles for Highly Efficient Photocatalytic Hydrogen Peroxide Production. *ACS Catalysis*, **2019**, 9, 626-631	13.1	47
139	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. *Environmental Science & Technology*, **2019**, 53, 2937-2947	10.3	277
138	Asymmetric hydrogel-composite membranes with improved water permeability and self-healing property. *Journal of Membrane Science*, **2019**, 578, 196-202	9.6	12
137	Surface-loaded metal nanoparticles for peroxymonosulfate activation: Efficiency and mechanism reconnaissance. *Applied Catalysis B: Environmental*, **2019**, 241, 561-569	21.8	124
136	Improved stability of self-healing hydrogel pore-filled membranes with ionic cross-links. *Journal of Membrane Science*, **2018**, 553, 1-9	9.6	9
135	Reinventing Fenton Chemistry: Iron Oxychloride Nanosheet for pH-Insensitive H2O2 Activation. *Environmental Science and Technology Letters*, **2018**, 5, 186-191	11	120
134	The role of nanotechnology in tackling global water challenges. *Nature Sustainability*, **2018**, 1, 166-175	22.1	241
133	Oxidation of Organic Compounds in Water by Unactivated Peroxymonosulfate. *Environmental Science & Technology*, **2018**, 52, 5911-5919	10.3	306
132	Flexible and Micropatternable Triplet-Triplet Annihilation Upconversion Thin Films for Photonic Device Integration and Anticounterfeiting Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 8985-8992	9.5	28
131	The Myth of Visible Light Photocatalysis Using Lanthanide Upconversion Materials. *Environmental Science & Technology*, **2018**, 52, 2973-2980	10.3	34
130	Photocatalytic hydrogen peroxide production by anthraquinone-augmented polymeric carbon nitride. *Applied Catalysis B: Environmental*, **2018**, 229, 121-129	21.8	96
129	Porous Electrospun Fibers Embedding TiO for Adsorption and Photocatalytic Degradation of Water Pollutants. *Environmental Science & Technology*, **2018**, 52, 4285-4293	10.3	186
128	Enhanced hole-dominated photocatalytic activity of doughnut-like porous g-C3N4 driven by down-shifted valance band maximum. *Catalysis Today*, **2018**, 307, 147-153	5.3	20
127	Chloride-enhanced oxidation of organic contaminants by Cu(II)-catalyzed Fenton-like reaction at neutral pH. *Journal of Hazardous Materials*, **2018**, 344, 1174-1180	12.8	53
126	Challenges and prospects of advanced oxidation water treatment processes using catalytic nanomaterials. *Nature Nanotechnology*, **2018**, 13, 642-650	28.7	375

125	Solar Photothermal Disinfection using Broadband-Light Absorbing Gold Nanoparticles and Carbon Black. *Environmental Science & Technology*, **2018**, 52, 205-213	10.3	68
124	Edible Dye-Enhanced Solar Disinfection with Safety Indication. *Environmental Science & Technology*, **2018**, 52, 13361-13369	10.3	22
123	Controlled TiO Growth on Reverse Osmosis and Nanofiltration Membranes by Atomic Layer Deposition: Mechanisms and Potential Applications. *Environmental Science & Technology*, **2018**, 52, 14311-14320	10.3	26
122	High-Performance Capacitive Deionization via Manganese Oxide-Coated, Vertically Aligned Carbon Nanotubes. *Environmental Science and Technology Letters*, **2018**, 5, 692-700	11	52
121	Easily Recoverable, Micrometer-Sized TiO Hierarchical Spheres Decorated with Cyclodextrin for Enhanced Photocatalytic Degradation of Organic Micropollutants. *Environmental Science & Technology*, **2018**, 52, 12402-12411	10.3	52
120	Single-Atom Pt Catalyst for Effective C□F Bond Activation via Hydrodefluorination. *ACS Catalysis*, **2018**, 8, 9353-9358	13.1	41
119	3D hydrogel scaffold doped with 2D graphene materials for biosensors and bioelectronics. *Biosensors and Bioelectronics*, **2017**, 89, 187-200	11.8	82
118	LED revolution: fundamentals and prospects for UV disinfection applications. *Environmental Science: Water Research and Technology*, **2017**, 3, 188-202	4.2	132
117	Self-Healing Hydrogel Pore-Filled Water Filtration Membranes. *Environmental Science & Technology*, **2017**, 51, 905-913	10.3	45
116	Toward microvascular network-embedded self-healing membranes. *Journal of Membrane Science*, **2017**, 531, 94-102	9.6	23
115	Response to Comment on "Activation of Persulfate by Graphitized Nanodiamonds for Removal of Organic Compounds". *Environmental Science & Technology*, **2017**, 51, 5353-5354	10.3	13
114	Enhanced Triplet□Triplet Annihilation Upconversion in Dual-Sensitizer Systems: Translating Broadband Light Absorption to Practical Solid-State Materials. *ACS Photonics*, **2017**, 4, 127-137	6.3	22
113	Enhanced antibacterial activity through the controlled alignment of graphene oxide nanosheets. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9793-E9801	11.5	215
112	In Situ Healing of Compromised Membranes via Polyethylenimine-Functionalized Silica Microparticles. *Environmental Science & Technology*, **2017**, 51, 12630-12637	10.3	8
111	Coupling Light Emitting Diodes with Photocatalyst-Coated Optical Fibers Improves Quantum Yield of Pollutant Oxidation. *Environmental Science & Technology*, **2017**, 51, 13319-13326	10.3	23
110	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. *Environmental Science & Technology*, **2017**, 51, 10274-10281	10.3	93
109	Visible-light-induced activation of periodate that mimics dye-sensitization of TiO2: Simultaneous decolorization of dyes and production of oxidizing radicals. *Applied Catalysis B: Environmental*, **2017**, 203, 475-484	21.8	62
108	Activation of Peroxymonosulfate by Surface-Loaded Noble Metal Nanoparticles for Oxidative Degradation of Organic Compounds. *Environmental Science & Technology*, **2016**, 50, 10187-97	10.3	169

107	Temperature-boosted photocatalytic H production and charge transfer kinetics on TiO under UV and visible light. *Photochemical and Photobiological Sciences*, **2016**, 15, 1247-1253	4.2	14
106	Robust Co-catalytic Performance of Nanodiamonds Loaded on WO3 for the Decomposition of Volatile Organic Compounds under Visible Light. *ACS Catalysis*, **2016**, 6, 8350-8360	13.1	81
105	Porous Silicon Photoactivity in Water: Insights into Environmental Fate. *Environmental Science & Technology*, **2016**, 50, 756-64	10.3	4
104	Harnessing low energy photons (635 nm) for the production of H2O2 using upconversion nanohybrid photocatalysts. *Energy and Environmental Science*, **2016**, 9, 1063-1073	35.4	111
103	Toward Microcapsule-Embedded Self-Healing Membranes. *Environmental Science and Technology Letters*, **2016**, 3, 216-221	11	31
102	Beyond the Pipeline: Assessing the Efficiency Limits of Advanced Technologies for Solar Water Disinfection. *Environmental Science and Technology Letters*, **2016**, 3, 73-80	11	46
101	Dual-Color Emissive Upconversion Nanocapsules for Differential Cancer Bioimaging In Vivo. *ACS Nano*, **2016**, 10, 1512-21	16.7	130
100	Restoring the virus removal capability of damaged hollow fiber membranes via chitosan-based in situ healing. *Journal of Membrane Science*, **2016**, 497, 387-393	9.6	11
99	Activation of Oxygen and Hydrogen Peroxide by Copper(II) Coupled with Hydroxylamine for Oxidation of Organic Contaminants. *Environmental Science & Technology*, **2016**, 50, 8231-8	10.3	110
98	Dual-Functionality Fullerene and Silver Nanoparticle Antimicrobial Composites via Block Copolymer Templates. *ACS Applied Materials & Interfaces*, **2016**, 8, 33583-33591	9.5	17
97	Photocurrent Enhancement from Solid-State Triplet–Triplet Annihilation Upconversion of Low-Intensity, Low-Energy Photons. *ACS Photonics*, **2016**, 3, 784-790	6.3	56
96	Activation of Persulfates by Graphitized Nanodiamonds for Removal of Organic Compounds. *Environmental Science & Technology*, **2016**, 50, 10134-42	10.3	361
95	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Triplet-Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. *Environmental Science & Technology*, **2016**, 50, 11184-11192	10.3	45
94	Interaction of Cl with water: first-principles modeling and environmental implications. *Environmental Science & Technology*, **2015**, 49, 1529-36	10.3	33
93	Basic Principles of Simulating Boron Removal in Reverse Osmosis Processes **2015**, 285-296		
92	Effect of Elevated Temperature on Ceramic Ultrafiltration of Colloidal Suspensions. *Journal of Environmental Engineering, ASCE*, **2015**, 141, 04014096	2	5
91	Effects of Coagulation on the Ceramic Membrane Fouling during Surface Water Treatment. *Journal of Environmental Engineering, ASCE*, **2015**, 141, 04014087	2	1
90	Triple-Emulsion Microcapsules for Highly Efficient Multispectral Upconversion in the Aqueous Phase. *ACS Photonics*, **2015**, 2, 633-638	6.3	37

89	Improving the Visible Light Photoactivity of Supported Fullerene Photocatalysts through the Use of [C]Fullerene. *Environmental Science & Technology*, **2015**, 49, 6190-7	10.3	32
88	Differential photoactivity of aqueous [C60] and [C70] fullerene aggregates. *Environmental Science & Technology*, **2015**, 49, 5990-8	10.3	29
87	Visible-to-UVC upconversion efficiency and mechanisms of Lu7O6F9:Pr3+ and Y2SiO5:Pr3+ ceramics. *Journal of Luminescence*, **2015**, 160, 202-209	3.8	25
86	N-nitrosodimethylamine (NDMA) formation potential of amine-based water treatment polymers: Effects of in situ chloramination, breakpoint chlorination, and pre-oxidation. *Journal of Hazardous Materials*, **2015**, 282, 133-40	12.8	51
85	Concentration-Based Decomposition of the Flow around a Confined Cylinder in a UV Disinfection Reactor. *Journal of Engineering Mechanics - ASCE*, **2015**, 141, 04015050	2.4	2
84	Bench-scale evaluation of water disinfection by visible-to-UVC upconversion under high-intensity irradiation. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 153, 405-11	6.7	11
83	Facet-dependent photoelectrochemical performance of TiO2 nanostructures: an experimental and computational study. *Journal of the American Chemical Society*, **2015**, 137, 1520-9	16.4	205
82	Triplet-triplet annihilation upconversion in CdS-decorated SiO2 nanocapsules for sub-bandgap photocatalysis. *ACS Applied Materials & Interfaces*, **2015**, 7, 318-25	9.5	69
81	Functionalized fullerenes in water: a closer look. *Environmental Science & Technology*, **2015**, 49, 2147-55	10.3	12
80	Toward in Situ Healing of Compromised Polymeric Membranes. *Environmental Science and Technology Letters*, **2014**, 1, 113-116	11	11
79	Synthesis and characterization of visible-to-UVC upconversion antimicrobial ceramics. *Environmental Science & Technology*, **2014**, 48, 2290-7	10.3	10
78	Fluorinated TiO2as an ambient light-activated virucidal surface coating material for the control of human norovirus. *Journal of Photochemistry and Photobiology B: Biology*, **2014**, 140, 315-20	6.7	37
77	Oxidizing capacity of periodate activated with iron-based bimetallic nanoparticles. *Environmental Science & Technology*, **2014**, 48, 8086-93	10.3	62
76	Cationic Fullerene Aggregates with Unprecedented Virus Photoinactivation Efficiencies in Water. *Environmental Science and Technology Letters*, **2014**, 1, 290-294	11	27
75	Red-to-Blue/Cyan/Green Upconverting Microcapsules for Aqueous- and Dry-Phase Color Tuning and Magnetic Sorting. *ACS Photonics*, **2014**, 1, 382-388	6.3	62
74	Differential natural organic matter fouling of ceramic versus polymeric ultrafiltration membranes. *Water Research*, **2014**, 48, 43-51	12.5	68
73	Simple synthetic method toward solid supported c60 visible light-activated photocatalysts. *Environmental Science & Technology*, **2014**, 48, 2785-91	10.3	38
72	Electron transfer mediation by aqueous C aggregates in H2O2/UV advanced oxidation of indigo carmine. *Nanoscale*, **2014**, 6, 13579-85	7.7	20

71	Upconversion under polychromatic excitation: Y2SiO5:Pr3+, Li+ converts violet, cyan, green, and yellow light into UVC. *Optical Materials*, **2013**, 35, 2347-2351	3.3	28
70	[C70] fullerene-sensitized triplet-triplet annihilation upconversion. *Chemical Communications*, **2013**, 49, 10829-31	5.8	24
69	Oxidation of dithiocarbamates to yield N-nitrosamines by water disinfection oxidants. *Water Research*, **2013**, 47, 725-36	12.5	39
68	Modeling aspects of flow and solute transport simulations in water disinfection tanks. *Applied Mathematical Modelling*, **2013**, 37, 8039-8050	4.5	23
67	Comparative analysis of fouling characteristics of ceramic and polymeric microfiltration membranes using filtration models. *Journal of Membrane Science*, **2013**, 432, 97-105	9.6	137
66	The effect of baffle spacing on hydrodynamics and solute transport in serpentine contact tanks. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2013**, 51, 558-568	1.9	44
65	Mechanisms of antibiotic removal by nanofiltration membranes: Model development and application. *Journal of Membrane Science*, **2012**, 389, 234-244	9.6	44
64	Photochemical and photophysical properties of sequentially functionalized fullerenes in the aqueous phase. *Environmental Science & Technology*, **2012**, 46, 13227-34	10.3	14
63	Encapsulated triplet-triplet annihilation-based upconversion in the aqueous phase for sub-band-gap semiconductor photocatalysis. *Journal of the American Chemical Society*, **2012**, 134, 17478-81	16.4	247
62	Engineering light: advances in wavelength conversion materials for energy and environmental technologies. *Environmental Science & Technology*, **2012**, 46, 12316-28	10.3	66
61	Delineating Mechanisms of Upconversion Enhancement by Li+ Codoping in Y2SiO5:Pr3+. *Journal of Physical Chemistry C*, **2012**, 116, 12772-12778	3.8	54
60	Visualizing and quantifying dose distribution in a UV reactor using three-dimensional laser-induced fluorescence. *Environmental Science & Technology*, **2012**, 46, 13220-6	10.3	7
59	Full-scale simulation of seawater reverse osmosis desalination processes for boron removal: Effect of membrane fouling. *Water Research*, **2012**, 46, 3796-804	12.5	41
58	Transport behavior of functionalized multi-wall carbon nanotubes in water-saturated quartz sand as a function of tube length. *Water Research*, **2012**, 46, 4521-31	12.5	54
57	High Efficiency Low-Power Upconverting Soft Materials. *Chemistry of Materials*, **2012**, 24, 2250-2252	9.6	167
56	Photosensitized oxidation of emerging organic pollutants by tetrakis C□ aminofullerene-derivatized silica under visible light irradiation. *Environmental Science & Technology*, **2011**, 45, 10598-604	10.3	85
55	Converting visible light into UVC: microbial inactivation by Pr(3+)-activated upconversion materials. *Environmental Science & Technology*, **2011**, 45, 3680-6	10.3	80
54	Investigating synergism during sequential inactivation of MS-2 phage and Bacillus subtilis spores with UV/H2O2 followed by free chlorine. *Water Research*, **2011**, 45, 1063-70	12.5	40

53	Inactivation and surface interactions of MS-2 bacteriophage in a TiO2 photoelectrocatalytic reactor. *Water Research*, **2011**, 45, 2104-10	12.5	66
52	UV reactor flow visualization and mixing quantification using three-dimensional laser-induced fluorescence. *Water Research*, **2011**, 45, 3855-62	12.5	14
51	Tertiary amines enhance reactions of organic contaminants with aqueous chlorine. *Water Research*, **2011**, 45, 6087-96	12.5	18
50	PolyDADMAC and dimethylamine as precursors of N-nitrosodimethylamine during ozonation: reaction kinetics and mechanisms. *Environmental Science & Technology*, **2011**, 45, 4353-9	10.3	94
49	Escherichia coli Inactivation by UVC-Irradiated C60: kinetics and mechanisms. *Environmental Science & Technology*, **2011**, 45, 9627-33	10.3	22
48	Using 3D LIF to investigate and improve performance of a multichamber ozone contactor. *Journal - American Water Works Association*, **2010**, 102, 61-70	0.5	22
47	Stability of water-stable C60 clusters to OH radical oxidation and hydrated electron reduction. *Environmental Science & Technology*, **2010**, 44, 3786-92	10.3	27
46	Visible light sensitized inactivation of MS-2 bacteriophage by a cationic amine-functionalized C60 derivative. *Environmental Science & Technology*, **2010**, 44, 6685-91	10.3	49
45	C60 aminofullerene immobilized on silica as a visible-light-activated photocatalyst. *Environmental Science & Technology*, **2010**, 44, 9488-95	10.3	64
44	Mechanisms of Escherichia coli inactivation by several disinfectants. *Water Research*, **2010**, 44, 3410-8	12.5	177
43	Large Eddy Simulation of Flow and Tracer Transport in Multichamber Ozone Contactors. *Journal of Environmental Engineering, ASCE*, **2010**, 136, 22-31	2	45
42	Ozone-contactor flow visualization and quantification using three-dimensional laser-induced fluorescence. *Journal - American Water Works Association*, **2010**, 102, 90-99	0.5	8
41	Stochastic cost estimation approach for full-scale reverse osmosis desalination plants. *Journal of Membrane Science*, **2010**, 364, 52-64	9.6	30
40	Removal of N-Nitrosamines and Their Precursors by Nanofiltration and Reverse Osmosis Membranes. *Journal of Environmental Engineering, ASCE*, **2009**, 135, 788-795	2	52
39	Modeling boron rejection in pilot- and full-scale reverse osmosis desalination processes. *Journal of Membrane Science*, **2009**, 338, 119-127	9.6	66
38	Photochemical and antimicrobial properties of novel C60 derivatives in aqueous systems. *Environmental Science & Technology*, **2009**, 43, 6604-10	10.3	110
37	Escherichia coli inactivation by water-soluble, ozonated C60 derivative: kinetics and mechanisms. *Environmental Science & Technology*, **2009**, 43, 7410-5	10.3	40
36	Delineating oxidative processes of aqueous C60 preparations: role of THF peroxide. *Environmental Science & Technology*, **2009**, 43, 108-13	10.3	53

35	Dispersion of C(60) in natural water and removal by conventional drinking water treatment processes. *Water Research*, **2009**, 43, 2463-70	12.5	90
34	Translocation of C(60) from aqueous stable colloidal aggregates into surfactant micelles. *Environmental Science & Technology*, **2009**, 43, 9124-9	10.3	10
33	Transformation of aggregated C60 in the aqueous phase by UV irradiation. *Environmental Science & Technology*, **2009**, 43, 4878-83	10.3	74
32	Natural organic matter (NOM) adsorption to multi-walled carbon nanotubes: effect of NOM characteristics and water quality parameters. *Environmental Science & Technology*, **2008**, 42, 4416-21	10.3	385
31	Mechanism of C60 photoreactivity in water: fate of triplet state and radical anion and production of reactive oxygen species. *Environmental Science & Technology*, **2008**, 42, 3459-64	10.3	82
30	Effect of encapsulating agents on dispersion status and photochemical reactivity of C60 in the aqueous phase. *Environmental Science & Technology*, **2008**, 42, 1552-7	10.3	51
29	Plant conversion experience: ozone BAC process installation and disinfectant residual control. *Journal - American Water Works Association*, **2008**, 100, 117-128	0.5	5
28	Adsorption, desorption, and steady-state removal of 17Êstradiol by nanofiltration membranes. *Journal of Membrane Science*, **2008**, 319, 38-43	9.6	44
27	Simultaneous simulation of pathogen inactivation and bromate formation in full-scale ozone contactors by computer software. *Journal - American Water Works Association*, **2007**, 99, 77-91	0.5	7
26	Reaction of water-stable C60 aggregates with ozone. *Environmental Science & Technology*, **2007**, 41, 7497-502	10.3	115
25	A Multi-Channel Stopped-Flow Reactor for Measuring Ozone Decay Rate: Instrument Development and Application. *Ozone: Science and Engineering*, **2007**, 29, 121-129	2.4	7
24	Modeling Cryptosporidium parvum oocyst inactivation and bromate in a flow-through ozone contactor treating natural water. *Water Research*, **2007**, 41, 467-75	12.5	29
23	Photochemical production of reactive oxygen species by C60 in the aqueous phase during UV irradiation. *Environmental Science & Technology*, **2007**, 41, 2529-35	10.3	135
22	Natural organic matter stabilizes carbon nanotubes in the aqueous phase. *Environmental Science & Technology*, **2007**, 41, 179-84	10.3	716
21	Reaction kinetics and transformation of carbadox and structurally related compounds with aqueous chlorine. *Environmental Science & Technology*, **2006**, 40, 7228-35	10.3	27
20	Removal of phenol and substituted phenols by newly developed emulsion liquid membrane process. *Water Research*, **2006**, 40, 1763-72	12.5	93
19	Investigating synergism during sequential inactivation of Bacillus subtilis spores with several disinfectants. *Water Research*, **2006**, 40, 2911-20	12.5	76
18	A mechanistic study on boron rejection by sea water reverse osmosis membranes. *Journal of Membrane Science*, **2006**, 286, 269-278	9.6	134

17	Modeling Cryptosporidium parvum oocyst inactivation and bromate formation in a full-scale ozone contactor. *Environmental Science & Technology*, **2005**, 39, 9343-50	10.3	34
16	Optimum emulsion liquid membranes stabilized by non-Newtonian conversion in Taylor Couette flow. *Chemical Engineering Science*, **2004**, 59, 5725-5734	4.4	30
15	Simultaneous prediction of Cryptosporidium parvum oocyst inactivation and bromate formation during ozonation of synthetic waters. *Environmental Science & Technology*, **2004**, 38, 2232-41	10.3	33
14	Removal of biological and non-biological viral surrogates by spiral-wound reverse osmosis membrane elements with intact and compromised integrity. *Water Research*, **2004**, 38, 3821-32	12.5	43
13	Microbial removal and integrity monitoring of ro and NF Membranes. *Journal - American Water Works Association*, **2003**, 95, 105-119	0.5	32
12	Evaluation of biologic and non-biologic methods for assessing virus removal by and integrity of high pressure membrane systems. *Water Science and Technology: Water Supply*, **2003**, 3, 81-92	1.4	9
11	Inactivation of Cryptosporidium Oocysts in a Pilot-Scale Ozone Bubble-Diffuser Contactor. II: Model Validation and Application. *Journal of Environmental Engineering, ASCE*, **2002**, 128, 522-532	2	11
10	Inactivation of Cryptosporidium Oocysts in a Pilot-Scale Ozone Bubble-Diffuser Contactor. I: Model Development. *Journal of Environmental Engineering, ASCE*, **2002**, 128, 514-521	2	19
9	Cleaner production option in a food (Kimchi) industry. *Journal of Cleaner Production*, **2001**, 9, 35-41	10.3	9
8	Effect of membrane support material on permeability in the microfiltration of brining wastewater. *Desalination*, **2001**, 140, 55-65	10.3	5
7	Role of disinfectant concentration and pH in the inactivation kinetics of Cryptosporidium parvum oocysts with ozone and monochloramine. *Environmental Science & Technology*, **2001**, 35, 2752-7	10.3	43
6	Hydrophilic modification of polypropylene microfiltration membranes by ozone-induced graft polymerization. *Journal of Membrane Science*, **2000**, 169, 269-276	9.6	159
5	Analysis of CaSO4 scale formation mechanism in various nanofiltration modules. *Journal of Membrane Science*, **1999**, 163, 63-74	9.6	153
4	Chemical and Photochemical Reactivity of Fullerenes in the Aqueous Phase159-195		
3	Light Sensitized Disinfection with Fullerene. *Advances in Environmental Engineering and Green Technologies Book Series*,137-163	0.4	
2	Opportunities and Challenges for Industrial Water Treatment and Reuse. *ACS ES&T Engineering*,		3
1	Municipal Water Supply: Ozonation362		