Jae-Hong Kim

List of Publications by Year
in descending order

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186	17,495	13865 67	15266 126
papers	citations	h-index	g-index

189	189	189	14704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Opportunities and Challenges for Industrial Water Treatment and Reuse. ACS ES&T Engineering, 2022, 2, 465-488.	7.6	19
2	Technology Baselines and Innovation Priorities for Securing Water Supply. ACS ES&T Engineering, 2022, 2, 271-272.	7.6	7
3	A Protocol for Electrocatalyst Stability Evaluation: H₂O₂ Electrosynthesis for Industrial Wastewater Treatment. Environmental Science & Technology, 2022, 56, 1365-1375.	10.0	12
4	Single-Atom Cobalt Incorporated in a 2D Graphene Oxide Membrane for Catalytic Pollutant Degradation. Environmental Science & Technology, 2022, 56, 1341-1351.	10.0	72
5	Catalytic Membrane with Copper Single-Atom Catalysts for Effective Hydrogen Peroxide Activation and Pollutant Destruction. Environmental Science & Technology, 2022, 56, 8733-8745.	10.0	31
6	Imparting Multifunctionality in Zr-MOFs Using the One-Pot Mixed-Linker Strategy: The Effect of Linker Environment and Enhanced Pollutant Removal. ACS Applied Materials & Interfaces, 2022, 14, 24351-24362.	8.0	4
7	Technology assessment of solar disinfection for drinking water treatment. Nature Sustainability, 2022, 5, 801-808.	23.7	30
8	Angstrom-confined catalytic water purification within Co-TiOx laminar membrane nanochannels. Nature Communications, 2022, 13, .	12.8	97
9	Farm-to-Tap Water Treatment: Naturally-Sourced Photosensitizers for Enhanced Solar Disinfection of Drinking Water. ACS ES&T Engineering, 2021, 1, 86-99.	7.6	14
10	Launch of ACS ES&T Engineering and Redefining Environmental Engineering. ACS ES&T Engineering, 2021, 1, 1-2.	7.6	1
11	Environmental Materials beyond and below the Nanoscale: Single-Atom Catalysts. ACS ES&T Engineering, 2021, 1, 157-172.	7.6	88
12	Cobalt Single Atoms on Tetrapyridomacrocyclic Support for Efficient Peroxymonosulfate Activation. Environmental Science & Technology, 2021, 55, 1242-1250.	10.0	185
13	Hand-ground fullerene-nanodiamond composite for photosensitized water treatment and photodynamic cancer therapy. Journal of Colloid and Interface Science, 2021, 587, 101-109.	9.4	12
14	Modular Hydrogen Peroxide Electrosynthesis Cell with Anthraquinone-Modified Polyaniline Electrocatalyst. ACS ES&T Engineering, 2021, 1, 446-455.	7.6	19
15	Measuring temperature heterogeneities during solar-photothermal heating using quantum dot nanothermometry. Analyst, The, 2021, 146, 2048-2056.	3.5	0
16	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.	10.3	12
17	Introducing the Inaugural Editorial Board of ACS ES&T Engineering. ACS ES&T Engineering, 2021, 1, 154-156.	7.6	0
18	Site-Selective Loading of Single-Atom Pt on TiO₂ for Photocatalytic Oxidation and Reductive Hydrodefluorination. ACS ES&T Engineering, 2021, 1, 512-522.	7.6	42

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19	Electrified Membranes for Water Treatment Applications. ACS ES&T Engineering, 2021, 1, 725-752.	7.6	139
20	Environmental Applications of Engineered Materials with Nanoconfinement. ACS ES&T Engineering, 2021, 1, 706-724.	7.6	80
21	Conflicting Roles of Coordination Number on Catalytic Performance of Single-Atom Pt Catalysts. ACS Catalysis, 2021, 11, 5586-5592.	11.2	38
22	Membrane-Confined Iron Oxychloride Nanocatalysts for Highly Efficient Heterogeneous Fenton Water Treatment. Environmental Science & Technology, 2021, 55, 9266-9275.	10.0	135
23	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.	8.0	22
24	Occurrence of unknown reactive species in UV/H2O2 system leading to false interpretation of hydroxyl radical probe reactions. Water Research, 2021, 201, 117338.	11.3	18
25	Neighboring Pd single atoms surpass isolated single atoms for selective hydrodehalogenation catalysis. Nature Communications, 2021, 12, 5179.	12.8	87
26	Elucidating the Role of Single-Atom Pd for Electrocatalytic Hydrodechlorination. Environmental Science & Technology, 2021, 55, 13306-13316.	10.0	12
27	Utilizing the broad electromagnetic spectrum and unique nanoscale properties for chemical-free water treatment. Current Opinion in Chemical Engineering, 2021, 33, 100709.	7.8	3
28	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.	20.2	54
29	Selective Fluoride Transport in Subnanometer TiO₂ Pores. ACS Nano, 2021, 15, 16828-16838.	14.6	16
30	Engineered Nanoconfinement Accelerating Spontaneous Manganese-Catalyzed Degradation of Organic Contaminants. Environmental Science & Technology, 2021, 55, 16708-16715.	10.0	50
31	Intrapore energy barriers govern ion transport and selectivity of desalination membranes. Science Advances, 2020, 6, .	10.3	161
32	Mechanism of Heterogeneous Fenton Reaction Kinetics Enhancement under Nanoscale Spatial Confinement. Environmental Science & Technology, 2020, 54, 10868-10875.	10.0	188
33	Versatile Yolkâ€“Shell Encapsulation: Catalytic, Photothermal, and Sensing Demonstration. Small, 2020, 16, e2002311.	10.0	19
34	Amorphous Pd-Loaded Ti₄O₇ Electrode for Direct Anodic Destruction of Perfluorooctanoic Acid. Environmental Science & Technology, 2020, 54, 10954-10963.	10.0	76
35	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.	7.1	49
36	Enhanced Pollutant Adsorption and Regeneration of Layered Double Hydroxide-Based Photoregenerable Adsorbent. Environmental Science & Technology, 2020, 54, 9106-9115.	10.0	43

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37	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater â€“ a perspective. Environmental Science: Nano, 2020, 7, 2178-2194.	4.3	74
38	Spatially separating redox centers on 2D carbon nitride with cobalt single atom for photocatalytic H ₂ O ₂ production. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6376-6382.	7.1	245
39	Hierarchical Bi2O2CO3 wrapped with modified graphene oxide for adsorption-enhanced photocatalytic inactivation of antibiotic resistant bacteria and resistance genes. Water Research, 2020, 184, 116157.	11.3	50
40	Accelerated oxidation of microcystin-LR by Fe(II)-tetrapolyphosphate/oxygen in the presence of magnesium and calcium ions. Water Research, 2020, 184, 116172.	11.3	2
41	Persulfate-Based Advanced Oxidation: Critical Assessment of Opportunities and Roadblocks. Environmental Science & Technology, 2020, 54, 3064-3081.	10.0	1,779
42	Cooperative Pollutant Adsorption and Persulfate-Driven Oxidation on Hierarchically Ordered Porous Carbon. Environmental Science & Technology, 2019, 53, 10352-10360.	10.0	127
43	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.	8.0	85
44	Titanium Dioxideâ€“Layered Double Hydroxide Composite Material for Adsorptionâ€“Photocatalysis of Water Pollutants. Langmuir, 2019, 35, 8699-8708.	3.5	40
45	Nanoparticle Enhanced Interfacial Solar Photothermal Water Disinfection Demonstrated in 3-D Printed Flow-Through Reactors. Environmental Science & Technology, 2019, 53, 7621-7631.	10.0	24
46	Tripletâ€“Triplet Annihilation Upconversion in Broadly Absorbing Layered Film Systems for Sub-Bandgap Photocatalysis. ACS Applied Materials & Interfaces, 2019, 11, 13304-13318.	8.0	29
47	Water Disinfection in Rural Areas Demands Unconventional Solar Technologies. Accounts of Chemical Research, 2019, 52, 1187-1195.	15.6	79
48	Cathodic Hydrogen Peroxide Electrosynthesis Using Anthraquinone Modified Carbon Nitride on Gas Diffusion Electrode. ACS Applied Energy Materials, 2019, 2, 7972-7979.	5.1	30
49	Electronic Tuning of Metal Nanoparticles for Highly Efficient Photocatalytic Hydrogen Peroxide Production. ACS Catalysis, 2019, 9, 626-631.	11.2	84
50	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. Environmental Science & Technology, 2019, 53, 2937-2947.	10.0	493
51	Asymmetric hydrogel-composite membranes with improved water permeability and self-healing property. Journal of Membrane Science, 2019, 578, 196-202.	8.2	25
52	Surface-loaded metal nanoparticles for peroxymonosulfate activation: Efficiency and mechanism reconnaissance. Applied Catalysis B: Environmental, 2019, 241, 561-569.	20.2	260
53	Improved stability of self-healing hydrogel pore-filled membranes with ionic cross-links. Journal of Membrane Science, 2018, 553, 1-9.	8.2	25
54	Reinventing Fenton Chemistry: Iron Oxychloride Nanosheet for pH-Insensitive H₂O₂ Activation. Environmental Science and Technology Letters, 2018, 5, 186-191.	8.7	202

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55	The role of nanotechnology in tackling global water challenges. Nature Sustainability, 2018, 1, 166-175.	23.7	377
56	Oxidation of Organic Compounds in Water by Unactivated Peroxymonosulfate. Environmental Science & Technology, 2018, 52, 5911-5919.	10.0	576
57	Flexible and Micropatternable Tripletâ€“Triplet Annihilation Upconversion Thin Films for Photonic Device Integration and Anticounterfeiting Applications. ACS Applied Materials & Interfaces, 2018, 10, 8985-8992.	8.0	43
58	The Myth of Visible Light Photocatalysis Using Lanthanide Upconversion Materials. Environmental Science & Technology, 2018, 52, 2973-2980.	10.0	42
59	Photocatalytic hydrogen peroxide production by anthraquinone-augmented polymeric carbon nitride. Applied Catalysis B: Environmental, 2018, 229, 121-129.	20.2	171
60	Porous Electrospun Fibers Embedding TiO₂ for Adsorption and Photocatalytic Degradation of Water Pollutants. Environmental Science & Technology, 2018, 52, 4285-4293.	10.0	286
61	Enhanced hole-dominated photocatalytic activity of doughnut-like porous g-C3N4 driven by down-shifted valance band maximum. Catalysis Today, 2018, 307, 147-153.	4.4	25
62	Chloride-enhanced oxidation of organic contaminants by Cu(II)-catalyzed Fenton-like reaction at neutral pH. Journal of Hazardous Materials, 2018, 344, 1174-1180.	12.4	81
63	Solar Photothermal Disinfection using Broadband-Light Absorbing Gold Nanoparticles and Carbon Black. Environmental Science & Technology, 2018, 52, 205-213.	10.0	107
64	Edible Dye-Enhanced Solar Disinfection with Safety Indication. Environmental Science & Technology, 2018, 52, 13361-13369.	10.0	27
65	Controlled TiO₂ Growth on Reverse Osmosis and Nanofiltration Membranes by Atomic Layer Deposition: Mechanisms and Potential Applications. Environmental Science & Technology, 2018, 52, 14311-14320.	10.0	40
66	High-Performance Capacitive Deionization via Manganese Oxide-Coated, Vertically Aligned Carbon Nanotubes. Environmental Science and Technology Letters, 2018, 5, 692-700.	8.7	69
67	Easily Recoverable, Micrometer-Sized TiO₂ Hierarchical Spheres Decorated with Cyclodextrin for Enhanced Photocatalytic Degradation of Organic Micropollutants. Environmental Science & Technology, 2018, 52, 12402-12411.	10.0	71
68	Single-Atom Pt Catalyst for Effective Câ€“F Bond Activation via Hydrodefluorination. ACS Catalysis, 2018, 8, 9353-9358.	11.2	70
69	Challenges and prospects of advanced oxidation water treatment processes using catalytic nanomaterials. Nature Nanotechnology, 2018, 13, 642-650.	31.5	745
70	3D hydrogel scaffold doped with 2D graphene materials for biosensors and bioelectronics. Biosensors and Bioelectronics, 2017, 89, 187-200.	10.1	112
71	LED revolution: fundamentals and prospects for UV disinfection applications. Environmental Science: Water Research and Technology, 2017, 3, 188-202.	2.4	202
72	Self-Healing Hydrogel Pore-Filled Water Filtration Membranes. Environmental Science & Technology, 2017, 51, 905-913.	10.0	74

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73	Toward microvascular network-embedded self-healing membranes. Journal of Membrane Science, 2017, 531, 94-102.	8.2	37
74	Response to Comment on â€œActivation of Persulfate by Graphitized Nanodiamonds for Removal of Organic Compoundsâ€• Environmental Science & Technology, 2017, 51, 5353-5354.	10.0	18
75	Enhanced Tripletâ€“Triplet Annihilation Upconversion in Dual-Sensitizer Systems: Translating Broadband Light Absorption to Practical Solid-State Materials. ACS Photonics, 2017, 4, 127-137.	6.6	25
76	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.	7.1	275
77	In Situ Healing of Compromised Membranes via Polyethylenimine-Functionalized Silica Microparticles. Environmental Science & Technology, 2017, 51, 12630-12637.	10.0	15
78	Coupling Light Emitting Diodes with Photocatalyst-Coated Optical Fibers Improves Quantum Yield of Pollutant Oxidation. Environmental Science & Technology, 2017, 51, 13319-13326.	10.0	39
79	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. Environmental Science & Technology, 2017, 51, 10274-10281.	10.0	129
80	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.	20.2	97
81	Activation of Oxygen and Hydrogen Peroxide by Copper(II) Coupled with Hydroxylamine for Oxidation of Organic Contaminants. Environmental Science & Technology, 2016, 50, 8231-8238.	10.0	166
82	Dual-Functionality Fullerene and Silver Nanoparticle Antimicrobial Composites via Block Copolymer Templates. ACS Applied Materials & Interfaces, 2016, 8, 33583-33591.	8.0	24
83	Photocurrent Enhancement from Solid-State Tripletâ€“Triplet Annihilation Upconversion of Low-Intensity, Low-Energy Photons. ACS Photonics, 2016, 3, 784-790.	6.6	68
84	Activation of Persulfates by Graphitized Nanodiamonds for Removal of Organic Compounds. Environmental Science & Technology, 2016, 50, 10134-10142.	10.0	546
85	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Tripletâ€“Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. Environmental Science & Technology, 2016, 50, 11184-11192.	10.0	53
86	Activation of Peroxymonosulfate by Surface-Loaded Noble Metal Nanoparticles for Oxidative Degradation of Organic Compounds. Environmental Science & Technology, 2016, 50, 10187-10197.	10.0	262
87	Temperature-boosted photocatalytic H2 production and charge transfer kinetics on TiO2 under UV and visible light. Photochemical and Photobiological Sciences, 2016, 15, 1247-1253.	2.9	23
88	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.	11.2	98
89	Porous Siliconâ€™s Photoactivity in Water: Insights into Environmental Fate. Environmental Science & Technology, 2016, 50, 756-764.	10.0	4
90	Harnessing low energy photons (635 nm) for the production of H₂O₂ using upconversion nanohybrid photocatalysts. Energy and Environmental Science, 2016, 9, 1063-1073.	30.8	160

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91	Toward Microcapsule-Embedded Self-Healing Membranes. Environmental Science and Technology Letters, 2016, 3, 216-221.	8.7	47
92	Beyond the Pipeline: Assessing the Efficiency Limits of Advanced Technologies for Solar Water Disinfection. Environmental Science and Technology Letters, 2016, 3, 73-80.	8.7	52
93	Dual-Color Emissive Upconversion Nanocapsules for Differential Cancer Bioimaging In Vivo. ACS Nano, 2016, 10, 1512-1521.	14.6	157
94	Restoring the virus removal capability of damaged hollow fiber membranes via chitosan-based in situ healing. Journal of Membrane Science, 2016, 497, 387-393.	8.2	20
95	Concentration-Based Decomposition of the Flow around a Confined Cylinder in a UV Disinfection Reactor. Journal of Engineering Mechanics - ASCE, 2015, 141, 04015050.	2.9	2
96	Bench-scale evaluation of water disinfection by visible-to-UVC upconversion under high-intensity irradiation. Journal of Photochemistry and Photobiology B: Biology, 2015, 153, 405-411.	3.8	13
97	Facet-Dependent Photoelectrochemical Performance of TiO₂ Nanostructures: An Experimental and Computational Study. Journal of the American Chemical Society, 2015, 137, 1520-1529.	13.7	242
98	Tripletâ€“Triplet Annihilation Upconversion in CdS-Decorated SiO₂ Nanocapsules for Sub-Bandgap Photocatalysis. ACS Applied Materials & Interfaces, 2015, 7, 318-325.	8.0	88
99	Functionalized Fullerenes in Water: A Closer Look. Environmental Science & Technology, 2015, 49, 2147-2155.	10.0	15
100	Interaction of C₆₀ with Water: First-Principles Modeling and Environmental Implications. Environmental Science & Technology, 2015, 49, 1529-1536.	10.0	37
101	Basic Principles of Simulating Boron Removal in Reverse Osmosis Processes. , 2015, , 285-296.		0
102	Effect of Elevated Temperature on Ceramic Ultrafiltration of Colloidal Suspensions. Journal of Environmental Engineering, ASCE, 2015, 141, .	1.4	9
103	Effects of Coagulation on the Ceramic Membrane Fouling during Surface Water Treatment. Journal of Environmental Engineering, ASCE, 2015, 141, 04014087.	1.4	1
104	Triple-Emulsion Microcapsules for Highly Efficient Multispectral Upconversion in the Aqueous Phase. ACS Photonics, 2015, 2, 633-638.	6.6	40
105	Improving the Visible Light Photoactivity of Supported Fullerene Photocatalysts through the Use of [C₇₀] Fullerene. Environmental Science & Technology, 2015, 49, 6190-6197.	10.0	39
106	Differential Photoactivity of Aqueous [C₆₀] and [C₇₀] Fullerene Aggregates. Environmental Science & Technology, 2015, 49, 5990-5998.	10.0	33
107	Visible-to-UVC upconversion efficiency and mechanisms of Lu7O6F9:Pr3+ and Y2SiO5:Pr3+ ceramics. Journal of Luminescence, 2015, 160, 202-209.	3.1	38
108	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, 133-140.	12.4	66

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109	Electron transfer mediation by aqueous C₆₀aggregates in H₂O₂/UV advanced oxidation of indigo carmine. Nanoscale, 2014, 6, 13579-13585.	5.6	25
110	Toward in Situ Healing of Compromised Polymeric Membranes. Environmental Science and Technology Letters, 2014, 1, 113-116.	8.7	15
111	Synthesis and Characterization of Visible-to-UVC Upconversion Antimicrobial Ceramics. Environmental Science & Technology, 2014, 48, 140205070115003.	10.0	14
112	Fluorinated TiO2 as an ambient light-activated virucidal surface coating material for the control of human norovirus. Journal of Photochemistry and Photobiology B: Biology, 2014, 140, 315-320.	3.8	59
113	Oxidizing Capacity of Periodate Activated with Iron-Based Bimetallic Nanoparticles. Environmental Science & Technology, 2014, 48, 8086-8093.	10.0	133
114	Cationic Fullerene Aggregates with Unprecedented Virus Photoinactivation Efficiencies in Water. Environmental Science and Technology Letters, 2014, 1, 290-294.	8.7	30
115	Red-to-Blue/Cyan/Green Upconverting Microcapsules for Aqueous- and Dry-Phase Color Tuning and Magnetic Sorting. ACS Photonics, 2014, 1, 382-388.	6.6	66
116	Differential natural organic matter fouling ofÂceramic versus polymeric ultrafiltration membranes. Water Research, 2014, 48, 43-51.	11.3	84
117	Simple Synthetic Method Toward Solid Supported C₆₀ Visible Light-Activated Photocatalysts. Environmental Science & Technology, 2014, 48, 2785-2791.	10.0	41
118	Upconversion under polychromatic excitation: Y2SiO5:Pr3+, Li+ converts violet, cyan, green, and yellow light into UVC. Optical Materials, 2013, 35, 2347-2351.	3.6	40
119	[C70] Fullerene-sensitized tripletâ€“triplet annihilation upconversion. Chemical Communications, 2013, 49, 10829.	4.1	30
120	Oxidation of dithiocarbamates to yield N-nitrosamines by water disinfection oxidants. Water Research, 2013, 47, 725-736.	11.3	49
121	Modeling aspects of flow and solute transport simulations in water disinfection tanks. Applied Mathematical Modelling, 2013, 37, 8039-8050.	4.2	25
122	Comparative analysis of fouling characteristics of ceramic and polymeric microfiltration membranes using filtration models. Journal of Membrane Science, 2013, 432, 97-105.	8.2	181
123	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.	1.7	49
124	Photochemical and Photophysical Properties of Sequentially Functionalized Fullerenes in the Aqueous Phase. Environmental Science & Technology, 2012, 46, 13227-13234.	10.0	15
125	Encapsulated Tripletâ€“Triplet Annihilation-Based Upconversion in the Aqueous Phase for Sub-Band-Gap Semiconductor Photocatalysis. Journal of the American Chemical Society, 2012, 134, 17478-17481.	13.7	267
126	Engineering Light: Advances in Wavelength Conversion Materials for Energy and Environmental Technologies. Environmental Science & Technology, 2012, 46, 12316-12328.	10.0	79

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127	Delineating Mechanisms of Upconversion Enhancement by Li⁺ Codoping in Y₂SiO₅:Pr³⁺. Journal of Physical Chemistry C, 2012, 116, 12772-12778.	3.1	66
128	Visualizing and Quantifying Dose Distribution in a UV Reactor Using Three-Dimensional Laser-Induced Fluorescence. Environmental Science & Technology, 2012, 46, 13220-13226.	10.0	8
129	Full-scale simulation of seawater reverse osmosis desalination processes for boron removal: Effect of membrane fouling. Water Research, 2012, 46, 3796-3804.	11.3	53
130	Transport behavior of functionalized multi-wall carbon nanotubes in water-saturated quartz sand as a function of tube length. Water Research, 2012, 46, 4521-4531.	11.3	59
131	High Efficiency Low-Power Upconverting Soft Materials. Chemistry of Materials, 2012, 24, 2250-2252.	6.7	184
132	Mechanisms of antibiotic removal by nanofiltration membranes: Model development and application. Journal of Membrane Science, 2012, 389, 234-244.	8.2	49
133	PolyDADMAC and Dimethylamine as Precursors of N-Nitrosodimethylamine during Ozonation: Reaction Kinetics and Mechanisms. Environmental Science & Technology, 2011, 45, 4353-4359.	10.0	116
134	Escherichia coli Inactivation by UVC-Irradiated C₆₀: Kinetics and Mechanisms. Environmental Science & Technology, 2011, 45, 9627-9633.	10.0	23
135	Photosensitized Oxidation of Emerging Organic Pollutants by Tetrakis C₆₀ Aminofullerene-Derivatized Silica under Visible Light Irradiation. Environmental Science & Technology, 2011, 45, 10598-10604.	10.0	107
136	Converting Visible Light into UVC: Microbial Inactivation by Pr³⁺-Activated Upconversion Materials. Environmental Science & Technology, 2011, 45, 3680-3686.	10.0	107
137	Investigating synergism during sequential inactivation of MS-2 phage and Bacillus subtilis spores with UV/H2O2 followed by free chlorine. Water Research, 2011, 45, 1063-1070.	11.3	53
138	Inactivation and surface interactions of MS-2 bacteriophage in a TiO2 photoelectrocatalytic reactor. Water Research, 2011, 45, 2104-2110.	11.3	79
139	UV reactor flow visualization and mixing quantification using three-dimensional laser-induced fluorescence. Water Research, 2011, 45, 3855-3862.	11.3	16
140	Tertiary amines enhance reactions of organic contaminants with aqueous chlorine. Water Research, 2011, 45, 6087-6096.	11.3	22
141	Ozoneâ€contactor flow visualization and quantification using threeâ€dimensional laserâ€induced fluorescence. Journal - American Water Works Association, 2010, 102, 90-99.	0.3	8
142	Stochastic cost estimation approach for full-scale reverse osmosis desalination plants. Journal of Membrane Science, 2010, 364, 52-64.	8.2	37
143	Using 3D LIF to investigate and improve performance of a multichamber ozone contactor. Journal - American Water Works Association, 2010, 102, 61-70.	0.3	26
144	Stability of Water-Stable C₆₀Clusters to OH Radical Oxidation and Hydrated Electron Reduction. Environmental Science & Technology, 2010, 44, 3786-3792.	10.0	30

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145	Visible Light Sensitized Inactivation of MS-2 Bacteriophage by a Cationic Amine-Functionalized C₆₀ Derivative. Environmental Science & Technology, 2010, 44, 6685-6691.	10.0	60
146	C₆₀ Aminofullerene Immobilized on Silica as a Visible-Light-Activated Photocatalyst. Environmental Science & Technology, 2010, 44, 9488-9495.	10.0	73
147	Mechanisms of Escherichia coli inactivation by several disinfectants. Water Research, 2010, 44, 3410-3418.	11.3	241
148	Large Eddy Simulation of Flow and Tracer Transport in Multichamber Ozone Contactors. Journal of Environmental Engineering, ASCE, 2010, 136, 22-31.	1.4	52
149	Removal of N-Nitrosamines and Their Precursors by Nanofiltration and Reverse Osmosis Membranes. Journal of Environmental Engineering, ASCE, 2009, 135, 788-795.	1.4	60
150	Modeling boron rejection in pilot- and full-scale reverse osmosis desalination processes. Journal of Membrane Science, 2009, 338, 119-127.	8.2	71
151	Photochemical and Antimicrobial Properties of Novel C₆₀ Derivatives in Aqueous Systems. Environmental Science & Technology, 2009, 43, 6604-6610.	10.0	127
152	Escherichia coli Inactivation by Water-Soluble, Ozonated C₆₀ Derivative: Kinetics and Mechanisms. Environmental Science & Technology, 2009, 43, 7410-7415.	10.0	41
153	Delineating Oxidative Processes of Aqueous C₆₀ Preparations: Role of THF Peroxide. Environmental Science & Technology, 2009, 43, 108-113.	10.0	56
154	Dispersion of C60 in natural water and removal by conventional drinking water treatment processes. Water Research, 2009, 43, 2463-2470.	11.3	95
155	Translocation of C₆₀ from Aqueous Stable Colloidal Aggregates into Surfactant Micelles. Environmental Science & Technology, 2009, 43, 9124-9129.	10.0	11
156	Transformation of Aggregated C₆₀ in the Aqueous Phase by UV Irradiation. Environmental Science & Technology, 2009, 43, 4878-4883.	10.0	79
157	Adsorption, desorption, and steady-state removal of 17Î²-estradiol by nanofiltration membranes. Journal of Membrane Science, 2008, 319, 38-43.	8.2	62
158	Natural Organic Matter (NOM) Adsorption to Multi-Walled Carbon Nanotubes: Effect of NOM Characteristics and Water Quality Parameters. Environmental Science & Technology, 2008, 42, 4416-4421.	10.0	428
159	Mechanism of C₆₀ Photoreactivity in Water: Fate of Triplet State and Radical Anion and Production of Reactive Oxygen Species. Environmental Science & Technology, 2008, 42, 3459-3464.	10.0	82
160	Effect of Encapsulating Agents on Dispersion Status and Photochemical Reactivity of C₆₀ in the Aqueous Phase. Environmental Science & Technology, 2008, 42, 1552-1557.	10.0	51
161	Plant conversion experience: ozone BAC process installation and disinfectant residual control. Journal - American Water Works Association, 2008, 100, 117-128.	0.3	5
162	A Multi-Channel Stopped-Flow Reactor for Measuring Ozone Decay Rate: Instrument Development and Application. Ozone: Science and Engineering, 2007, 29, 121-129.	2.5	9

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163	Modeling Cryptosporidium parvum oocyst inactivation and bromate in a flow-through ozone contactor treating natural water. Water Research, 2007, 41, 467-475.	11.3	36
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