

# John C Crittenden

## List of Publications by Year in descending order

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372  
papers

24,334  
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5430

85  
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15253

130  
g-index

375  
all docs

375  
docs citations

375  
times ranked

24682  
citing authors

#	ARTICLE	IF	CITATIONS
1	MWH's Water Treatment. , 2012, , .		575
2	Stability of commercial metal oxide nanoparticles in water. <i>Water Research</i> , 2008, 42, 2204-2212.	5.3	519
3	Impact of natural organic matter and divalent cations on the stability of aqueous nanoparticles. <i>Water Research</i> , 2009, 43, 4249-4257.	5.3	508
4	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2937-2947.	4.6	493
5	A kinetic model for H <sub>2</sub> O <sub>2</sub> /UV process in a completely mixed batch reactor. <i>Water Research</i> , 1999, 33, 2315-2328.	5.3	431
6	Surface chemistry of active carbon: Specific adsorption of phenols. <i>Journal of Colloid and Interface Science</i> , 1969, 31, 116-130.	5.0	420
7	Sustainability Science and Engineering: The Emergence of a New Metadiscipline. <i>Environmental Science &amp; Technology</i> , 2003, 37, 5314-5324.	4.6	355
8	A Critical Review on Energy Conversion and Environmental Remediation of Photocatalysts with Remodeling Crystal Lattice, Surface, and Interface. <i>ACS Nano</i> , 2019, 13, 9811-9840.	7.3	331
9	Perfluorooctanoic Acid Degradation Using UV-Persulfate Process: Modeling of the Degradation and Chlorate Formation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 772-781.	4.6	294
10	Efficient heavy metal removal from industrial melting effluent using fixed-bed process based on porous hydrogel adsorbents. <i>Water Research</i> , 2018, 131, 246-254.	5.3	291
11	Preparation of a Novel TiO <sub>2</sub> -Based p-n Junction Nanotube Photocatalyst. <i>Environmental Science &amp; Technology</i> , 2005, 39, 1201-1208.	4.6	283
12	Experimental and modeling investigations of ball-milled biochar for the removal of aqueous methylene blue. <i>Chemical Engineering Journal</i> , 2018, 335, 110-119.	6.6	262
13	Removal of Antimonite (Sb(III)) and Antimonate (Sb(V)) from Aqueous Solution Using Carbon Nanofibers That Are Decorated with Zirconium Oxide (ZrO <sub>2</sub> ). <i>Environmental Science &amp; Technology</i> , 2015, 49, 11115-11124.	4.6	233
14	Potential and implemented membrane-based technologies for the treatment and reuse of flowback and produced water from shale gas and oil plays: A review. <i>Desalination</i> , 2019, 455, 34-57.	4.0	233
15	Structural Changes of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> -Supported Catalysts in Hot Liquid Water. <i>ACS Catalysis</i> , 2011, 1, 552-561.	5.5	232
16	Transport of Organic Compounds With Saturated Groundwater Flow: Model Development and Parameter Sensitivity. <i>Water Resources Research</i> , 1986, 22, 271-284.	1.7	228
17	Self-Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7610-7614.	7.2	221
18	Electrochemical oxidation of ofloxacin using a TiO <sub>2</sub> -based SnO <sub>2</sub> -Sb/polytetrafluoroethylene resin-PbO <sub>2</sub> electrode: Reaction kinetics and mass transfer impact. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 515-525.	10.8	212

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19	Development of a Group Contribution Method To Predict Aqueous Phase Hydroxyl Radical (HO•) Reaction Rate Constants. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6220-6227.	4.6	211
20	Reinventing Fenton Chemistry: Iron Oxide Nanosheet for pH-Insensitive H <sub>2</sub> O <sub>2</sub> Activation. <i>Environmental Science and Technology Letters</i> , 2018, 5, 186-191.	3.9	202
21	Oxidation of organics in retentates from reverse osmosis wastewater reuse facilities. <i>Water Research</i> , 2009, 43, 3992-3998.	5.3	197
22	Prediction of multicomponent adsorption equilibria using ideal adsorbed solution theory. <i>Environmental Science &amp; Technology</i> , 1985, 19, 1037-1043.	4.6	193
23	Ball-Milled Carbon Nanomaterials for Energy and Environmental Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9568-9585.	3.2	187
24	Predicting GAC Performance With Rapid Small-Scale Column Tests. <i>Journal - American Water Works Association</i> , 1991, 83, 77-87.	0.2	183
25	Deactivation and regeneration of a commercial SCR catalyst: Comparison with alkali metals and arsenic. <i>Applied Catalysis B: Environmental</i> , 2015, 168-169, 195-202.	10.8	180
26	Toxicity and cellular responses of intestinal cells exposed to titanium dioxide. <i>Cell Biology and Toxicology</i> , 2010, 26, 225-238.	2.4	178
27	Impact of Chloride Ions on UV/H <sub>2</sub> O <sub>2</sub> and UV/Persulfate Advanced Oxidation Processes. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7380-7389.	4.6	178
28	Photocatalytic wastewater purification with simultaneous hydrogen production using MoS <sub>2</sub> QD-decorated hierarchical assembly of ZnIn <sub>2</sub> S <sub>4</sub> on reduced graphene oxide photocatalyst. <i>Water Research</i> , 2017, 121, 11-19.	5.3	176
29	pH Dependence of Arsenic Oxidation by Rice-Husk-Derived Biochar: Roles of Redox-Active Moieties. <i>Environmental Science &amp; Technology</i> , 2019, 53, 9034-9044.	4.6	175
30	Urban expansion simulation and the spatio-temporal changes of ecosystem services, a case study in Atlanta Metropolitan area, USA. <i>Science of the Total Environment</i> , 2018, 622-623, 974-987.	3.9	171
31	Correlation of Aqueous-Phase Adsorption Isotherms. <i>Environmental Science &amp; Technology</i> , 1999, 33, 2926-2933.	4.6	170
32	Fixed-bed photocatalysts for solar decontamination of water. <i>Environmental Science &amp; Technology</i> , 1994, 28, 435-442.	4.6	169
33	Mechanistic insights into adsorption and reduction of hexavalent chromium from water using magnetic biochar composite: Key roles of Fe <sub>3</sub> O <sub>4</sub> and persistent free radicals. <i>Environmental Pollution</i> , 2018, 243, 1302-1309.	3.7	162
34	Photocatalytic oxidation of chlorinated hydrocarbons in water. <i>Water Research</i> , 1997, 31, 429-438.	5.3	154
35	Enhanced photocatalytic ozonation of organic pollutants using an iron-based metal-organic framework. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 66-75.	10.8	154
36	Electrochemical oxidation and advanced oxidation processes using a 3D hexagonal Co <sub>3</sub> O <sub>4</sub> array anode for 4-nitrophenol decomposition coupled with simultaneous CO <sub>2</sub> conversion to liquid fuels via a flower-like CuO cathode. <i>Water Research</i> , 2019, 150, 330-339.	5.3	147

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37	Low-cost antifouling PVC ultrafiltration membrane fabrication with Pluronic F 127: Effect of additives on properties and performance. <i>Desalination</i> , 2012, 307, 26-33.	4.0	145
38	CO2 emissions embodied in China's exports from 2002 to 2008: A structural decomposition analysis. <i>Energy Policy</i> , 2011, 39, 7381-7388.	4.2	140
39	Accelerating Fe(IV)/Fe(III) cycle via Fe(III) substitution for enhancing Fenton-like performance of Fe-MOFs. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119859.	10.8	138
40	Recovery of Lithium from Wastewater Using Development of Li Ion-Imprinted Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 460-467.	3.2	133
41	Electrochemical degradation of methylisothiazolinone by using Ti/SnO <sub>2</sub> -Sb <sub>2</sub> O <sub>3</sub> /PbO <sub>2</sub> electrode: Kinetics, energy efficiency, oxidation mechanism and degradation pathway. <i>Chemical Engineering Journal</i> , 2019, 374, 626-636.	6.6	133
42	Enhanced Accumulation of Arsenate in Carp in the Presence of Titanium Dioxide Nanoparticles. <i>Water, Air, and Soil Pollution</i> , 2007, 178, 245-254.	1.1	132
43	Groundwater remediation from the past to the future: A bibliometric analysis. <i>Water Research</i> , 2017, 119, 114-125.	5.3	131
44	3D hierarchical porous-structured biochar aerogel for rapid and efficient phenicol antibiotics removal from water. <i>Chemical Engineering Journal</i> , 2019, 368, 639-648.	6.6	124
45	Arsenate Removal by Nanostructured ZrO <sub>2</sub> Spheres. <i>Environmental Science &amp; Technology</i> , 2008, 42, 3786-3790.	4.6	123
46	Attachment Efficiency of Nanoparticle Aggregation in Aqueous Dispersions: Modeling and Experimental Validation. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7054-7062.	4.6	121
47	Surface modification of UF membranes with functionalized MWCNTs to control membrane fouling by NOM fractions. <i>Journal of Membrane Science</i> , 2015, 492, 400-411.	4.1	121
48	Tuning Pb(II) Adsorption from Aqueous Solutions on Ultrathin Iron Oxide Nanosheets. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2075-2085.	4.6	121
49	Comparison of MoO <sub>3</sub> and WO <sub>3</sub> on arsenic poisoning V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> catalyst: DRIFTS and DFT study. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 692-698.	10.8	117
50	Multipollutant Control (MPC) of Flue Gas from Stationary Sources Using SCR Technology: A Critical Review. <i>Environmental Science &amp; Technology</i> , 2021, 55, 2743-2766.	4.6	117
51	Fouling characteristics of reverse osmosis membranes at different positions of a full-scale plant for municipal wastewater reclamation. <i>Water Research</i> , 2016, 90, 329-336.	5.3	114
52	Oxidation of Microcystin-LR via Activation of Peroxymonosulfate Using Ascorbic Acid: Kinetic Modeling and Toxicity Assessment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4305-4312.	4.6	114
53	Photocatalytic degradation of 2,4-dichlorophenol using nanoscale Fe/TiO <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2012, 181-182, 189-195.	6.6	113
54	Electrocatalytic nitrate reduction to ammonia on defective Au <sub>1</sub> Cu (111) single-atom alloys. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121346.	10.8	113

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55	User-Oriented Batch Reactor Solutions to the Homogeneous Surface Diffusion Model. Journal of Environmental Engineering, ASCE, 1983, 109, 82-101.	0.7	112
56	Kinetics and Modeling of Degradation of Ionophore Antibiotics by UV and UV/H <sub>2</sub> O <sub>2</sub> . Environmental Science & Technology, 2013, 47, 4581-4589.	4.6	111
57	Facile synthesis of AgI/BiOI-Bi <sub>2</sub> O <sub>3</sub> multi-heterojunctions with high visible light activity for Cr(VI) reduction. Journal of Hazardous Materials, 2016, 317, 8-16.	6.5	111
58	Sea-urchin-structure g-C <sub>3</sub> N <sub>4</sub> with narrow bandgap (E <sub>g</sub> = 2.0 eV) for efficient overall water splitting under visible light irradiation. Applied Catalysis B: Environmental, 2019, 249, 275-281.	10.8	110
59	Toward the Next Generation of Sustainable Membranes from Green Chemistry Principles. ACS Sustainable Chemistry and Engineering, 2021, 9, 50-75.	3.2	110
60	Surface Tuning of La <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3</sub> Perovskite Catalysts by Acetic Acid for NO <sub>x</sub> Storage and Reduction. Environmental Science & Technology, 2016, 50, 6442-6448.	4.6	108
61	Investigation of the Poisoning Mechanism of Lead on the CeO <sub>2</sub> -WO <sub>3</sub> Catalyst for the NH <sub>3</sub> -SCR Reaction via in Situ IR and Raman Spectroscopy Measurement. Environmental Science & Technology, 2016, 50, 9576-9582.	4.6	106
62	Arsenic adsorption on MnO <sub>2</sub> nanofibers and the significance of (1 0 0) facet as compared with (1 1 0). Chemical Engineering Journal, 2018, 331, 492-500.	6.6	106
63	Pb(II), Cu(II) and Cd(II) removal using a humic substance-based double network hydrogel in individual and multicomponent systems. Journal of Materials Chemistry A, 2018, 6, 20110-20120.	5.2	106
64	Critical Review of Advances in Engineering Nanomaterial Adsorbents for Metal Removal and Recovery from Water: Mechanism Identification and Engineering Design. Environmental Science & Technology, 2021, 55, 4287-4304.	4.6	106
65	A Critical Review of Membrane Wettability in Membrane Distillation from the Perspective of Interfacial Interactions. Environmental Science & Technology, 2021, 55, 1395-1418.	4.6	105
66	The role of reactive oxygen species and carbonate radical in oxcarbazepine degradation via UV, UV/H <sub>2</sub> O <sub>2</sub> : Kinetics, mechanisms and toxicity evaluation. Water Research, 2018, 147, 204-213.	5.3	103
67	Stability and Removal of Water Soluble CdTe Quantum Dots in Water. Environmental Science & Technology, 2008, 42, 321-325.	4.6	102
68	Capturing Lithium from Wastewater Using a Fixed Bed Packed with 3-D MnO <sub>2</sub> Ion Cages. Environmental Science & Technology, 2016, 50, 13002-13012.	4.6	102
69	Responses of the Microalga <i>Chlorophyta</i> sp. to Bacterial Quorum Sensing Molecules ( <i>N</i> -Acylhomoserine Lactones): Aromatic Protein-Induced Self-Aggregation. Environmental Science & Technology, 2017, 51, 3490-3498.	4.6	102
70	Unique applications and improvements of reverse electrodialysis: A review and outlook. Applied Energy, 2020, 262, 114482.	5.1	101
71	Chemical poison and regeneration of SCR catalysts for NO <sub>x</sub> removal from stationary sources. Frontiers of Environmental Science and Engineering, 2016, 10, 413-427.	3.3	100
72	Degradation of thiachlopid via unactivated peroxymonosulfate: The overlooked singlet oxygen oxidation. Chemical Engineering Journal, 2020, 388, 124264.	6.6	100

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73	Predictive Model for Design of Fixed-Bed Adsorbers: Parameter Estimation and Model Development. American Society of Civil Engineers, Journal of the Environmental Engineering Division, 1978, 104, 185-197.	0.3	100
74	Heterogeneous photocatalytic oxidation of hazardous organic contaminants in water. Water Environment Research, 1993, 65, 665-673.	1.3	99
75	Promoting effect of nitration modification on activated carbon in the catalytic ozonation of oxalic acid. Applied Catalysis B: Environmental, 2014, 146, 169-176.	10.8	99
76	Fabrication of the flower-flake-like CuBi <sub>2</sub> O <sub>4</sub> /Bi <sub>2</sub> WO <sub>6</sub> heterostructure as efficient visible-light driven photocatalysts: Performance, kinetics and mechanism insight. Applied Surface Science, 2019, 495, 143521.	3.1	99
77	Integration of a Photo-Fenton Reaction and a Membrane Filtration using CS/PAN@FeOOH/g-C <sub>3</sub> N <sub>4</sub> Electrospun Nanofibers: Synthesis, Characterization, Self-cleaning Performance and Mechanism. Applied Catalysis B: Environmental, 2021, 281, 119519.	10.8	99
78	Design of Rapid Fixed-Bed Adsorption Tests for Nonconstant Diffusivities. Journal of Environmental Engineering, ASCE, 1987, 113, 243-259.	0.7	97
79	Nanofluidic Membranes to Address the Challenges of Salinity Gradient Power Harvesting. ACS Nano, 2021, 15, 5838-5860.	7.3	97
80	Simplified Models for Design of Fixed-Bed Adsorption Systems. Journal of Environmental Engineering, ASCE, 1984, 110, 440-456.	0.7	93
81	Degradation of dyes by peroxymonosulfate activated by ternary CoFeNi-layered double hydroxide: Catalytic performance, mechanism and kinetic modeling. Journal of Colloid and Interface Science, 2018, 515, 92-100.	5.0	92
82	Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered Ti <sub>3</sub> C <sub>2</sub> O <sub>x</sub> MXene via Adsorption Coupled with Catalytic Reduction Mechanism. Environmental Science & Technology, 2020, 54, 16212-16220.	4.6	92
83	Highly enhanced photocatalytic reduction of Cr(VI) on AgI/TiO <sub>2</sub> under visible light irradiation: Influence of calcination temperature. Journal of Hazardous Materials, 2016, 307, 213-220.	6.5	90
84	Impacts of Pb and SO <sub>2</sub> Poisoning on CeO <sub>2</sub> -WO <sub>3</sub> /TiO <sub>2</sub> -SiO <sub>2</sub> SCR Catalyst. Environmental Science & Technology, 2017, 51, 11943-11949.	4.6	90
85	Stability of Pt/Al <sub>2</sub> O <sub>3</sub> Catalysts in Model Biomass Solutions. Topics in Catalysis, 2012, 55, 162-174.	1.3	89
86	Analyzing spatio-temporal changes and trade-offs to support the supply of multiple ecosystem services in Beijing, China. Ecological Indicators, 2018, 94, 117-129.	2.6	89
87	Efficient degradation of lomefloxacin by Co-Cu-LDH activating peroxymonosulfate process: Optimization, dynamics, degradation pathway and mechanism. Journal of Hazardous Materials, 2020, 399, 122966.	6.5	89
88	Remediation of Petroleum-Contaminated Soil and Simultaneous Recovery of Oil by Fast Pyrolysis. Environmental Science & Technology, 2018, 52, 5330-5338.	4.6	87
89	Trichloroethene Degradation by UV/H <sub>2</sub> O <sub>2</sub> Advanced Oxidation Process: A Product Study and Kinetic Modeling. Environmental Science & Technology, 2007, 41, 1696-1703.	4.6	86
90	Solar detoxification of fuel-contaminated groundwater using fixed-bed photocatalysts. Water Environment Research, 1996, 68, 270-278.	1.3	85

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91	Antimony Removal from Aqueous Solution Using Novel $\text{MnO}_2$ Nanofibers: Equilibrium, Kinetic, and Density Functional Theory Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2255-2264.	3.2	85
92	A bibliometric analysis of industrial wastewater treatments from 1998 to 2019. <i>Environmental Pollution</i> , 2021, 275, 115785.	3.7	84
93	Zirconia ( $\text{ZrO}_2$ ) Embedded in Carbon Nanowires via Electrospinning for Efficient Arsenic Removal from Water Combined with DFT Studies. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18912-18921.	4.0	83
94	High performance ultrafiltration membrane composed of PVDF blended with its derivative copolymer PVDF-g-PEGMA. <i>Journal of Membrane Science</i> , 2013, 445, 66-75.	4.1	82
95	Phase-Mediated Heavy Metal Adsorption from Aqueous Solutions Using Two-Dimensional Layered $\text{MoS}_2$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38789-38797.	4.0	82
96	Remediation of nitrate contamination by membrane hydrogenotrophic denitrifying biofilm integrated in microbial electrolysis cell. <i>Water Research</i> , 2021, 188, 116498.	5.3	82
97	Transport of Organic Compounds With Saturated Groundwater Flow: Experimental Results. <i>Water Resources Research</i> , 1986, 22, 285-295.	1.7	81
98	Distribution and source of microplastics in China's second largest reservoir - Danjiangkou Reservoir. <i>Journal of Environmental Sciences</i> , 2021, 102, 74-84.	3.2	81
99	Prediction of multicomponent adsorption equilibria in background mixtures of unknown composition. <i>Water Research</i> , 1985, 19, 1537-1548.	5.3	80
100	$\text{Cu}_2\text{O}$ nanocrystals/ $\text{TiO}_2$ microspheres film on a rotating disk containing long-afterglow phosphor for enhanced round-the-clock photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 239-248.	10.8	80
101	$\text{NH}_3$ -SCR performance of $\text{WO}_3$ blanketed $\text{CeO}_2$ with different morphology: Balance of surface reducibility and acidity. <i>Catalysis Today</i> , 2019, 332, 42-48.	2.2	79
102	The individual and Co-exposure degradation of benzophenone derivatives by UV/ $\text{H}_2\text{O}_2$ and UV/PDS in different water matrices. <i>Water Research</i> , 2019, 159, 102-110.	5.3	79
103	Efficient sulfadiazine degradation via in-situ epitaxial grow of Graphitic Carbon Nitride (g-C $_3\text{N}_4$ ) on carbon dots heterostructures under visible light irradiation: Synthesis, mechanisms and toxicity evaluation. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 696-707.	5.0	79
104	Decolorization of industrial wastewater by ozonation followed by adsorption on activated carbon. <i>Journal of Hazardous Materials</i> , 2010, 176, 181-185.	6.5	76
105	Infrastructure ecology: an evolving paradigm for sustainable urban development. <i>Journal of Cleaner Production</i> , 2017, 163, S19-S27.	4.6	76
106	Preparing future engineers for challenges of the 21st century: Sustainable engineering. <i>Journal of Cleaner Production</i> , 2010, 18, 698-701.	4.6	75
107	Deactivation Mechanism of Multipoisons in Cement Furnace Flue Gas on Selective Catalytic Reduction Catalysts. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6937-6944.	4.6	75
108	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater – a perspective. <i>Environmental Science: Nano</i> , 2020, 7, 2178-2194.	2.2	74

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109	Predictive Model for Design of Fixed-Bed Adsorbers: Single-Component Model Verification. American Society of Civil Engineers, Journal of the Environmental Engineering Division, 1978, 104, 433-443.	0.3	74
110	Effects of Chloride Ions on Dissolution, ROS Generation, and Toxicity of Silver Nanoparticles under UV Irradiation. Environmental Science & Technology, 2018, 52, 4842-4849.	4.6	73
111	Synergistic activation of peroxymonosulfate and persulfate by ferrous ion and molybdenum disulfide for pollutant degradation: Theoretical and experimental studies. Chemosphere, 2020, 240, 124979.	4.2	72
112	Decontamination of water using adsorption and photocatalysis. Water Research, 1997, 31, 411-418.	5.3	70
113	Viewpoint: Adding Sustainability to the Engineer's Toolbox: A Challenge for Engineering Educators. Environmental Science & Technology, 2007, 41, 4847-4849.	4.6	70
114	A comparison of pilot-scale photocatalysis and enhanced coagulation for disinfection byproduct mitigation. Water Research, 2009, 43, 1597-1610.	5.3	70
115	Mining of the association rules between industrialization level and air quality to inform high-quality development in China. Journal of Environmental Management, 2019, 246, 564-574.	3.8	70
116	Oxidation Mechanisms of the UV/Free Chlorine Process: Kinetic Modeling and Quantitative Structure Activity Relationships. Environmental Science & Technology, 2019, 53, 4335-4345.	4.6	70
117	Novel RGO/ $\pm$ -FeOOH supported catalyst for Fenton oxidation of phenol at a wide pH range using solar-light-driven irradiation. Journal of Hazardous Materials, 2017, 329, 321-329.	6.5	69
118	Life cycle assessment of small-scale greywater reclamation systems combined with conventional centralized water systems for the City of Atlanta, Georgia. Journal of Cleaner Production, 2018, 174, 333-342.	4.6	67
119	Performance of Modified La <sub>2</sub> Sr <sub>1</sub> MnO <sub>3</sub> Perovskite Catalysts for NH <sub>3</sub> Oxidation: TPD, DFT, and Kinetic Studies. Environmental Science & Technology, 2018, 52, 7443-7449.	4.6	67
120	Deep Dehalogenation of Florfenicol Using Crystalline CoP Nanosheet Arrays on a Ti Plate via Direct Cathodic Reduction and Atomic H. Environmental Science & Technology, 2019, 53, 11932-11940.	4.6	67
121	Heterogeneous degradation of carbamazepine by Prussian blue analogues in the interlayers of layered double hydroxides: performance, mechanism and toxicity evaluation. Journal of Materials Chemistry A, 2019, 7, 342-352.	5.2	67
122	Facilitating Redox Cycles of Copper Species by Pollutants in Peroxymonosulfate Activation. Environmental Science & Technology, 2022, 56, 2637-2646.	4.6	67
123	Excessive phosphorus enhances Chlorella regularis lipid production under nitrogen starvation stress during glucose heterotrophic cultivation. Chemical Engineering Journal, 2017, 330, 566-572.	6.6	65
124	Using the Green Solvent Dimethyl Sulfoxide To Replace Traditional Solvents Partly and Fabricating PVC/PVC-g-PEGMA Blended Ultrafiltration Membranes with High Permeability and Rejection. Industrial & Engineering Chemistry Research, 2019, 58, 6413-6423.	1.8	65
125	Photocatalytic inactivation of Cryptosporidium parvum with TiO <sub>2</sub> and low-pressure ultraviolet irradiation. Water Research, 2008, 42, 1523-1530.	5.3	64
126	Sustained molecular oxygen activation by solid iron doped silicon carbide under microwave irradiation: Mechanism and application to norfloxacin degradation. Water Research, 2017, 126, 274-284.	5.3	64



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127	Sustainability in Engineering Education and Research at U.S. Universities. <i>Environmental Science &amp; Technology</i> , 2009, 43, 5558-5564.	4.6	63
128	Blended PVC/PVC-g-PEGMA ultrafiltration membranes with enhanced performance and antifouling properties. <i>Applied Surface Science</i> , 2018, 455, 987-996.	3.1	62
129	Superselective Hg(II) Removal from Water Using a Thiol-Laced MOF-Based Sponge Monolith: Performance and Mechanism. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2677-2688.	4.6	62
130	Conductive and hydrophilic polypyrrole modified membrane cathodes and fouling reduction in MBR. <i>Journal of Membrane Science</i> , 2013, 429, 252-258.	4.1	61
131	Self-Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2017, 129, 7718-7722.	1.6	61
132	Quantitative structure-activity relationship models for predicting reaction rate constants of organic contaminants with hydrated electrons and their mechanistic pathways. <i>Water Research</i> , 2019, 151, 468-477.	5.3	61
133	Sulfadiazine destruction by chlorination in a pilot-scale water distribution system: Kinetics, pathway, and bacterial community structure. <i>Journal of Hazardous Materials</i> , 2019, 366, 88-97.	6.5	61
134	Review of Advances in Engineering Nanomaterial Adsorbents for Metal Removal and Recovery from Water: Synthesis and Microstructure Impacts. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 623-661.	3.7	61
135	Occurrence and risk assessment of selected phthalates in drinking water from waterworks in China. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10690-10698.	2.7	60
136	Simulating the performance of fixed-bed granular activated carbon adsorbents: Removal of synthetic organic chemicals in the presence of background organic matter. <i>Water Research</i> , 2005, 39, 2407-2421.	5.3	59
137	Can virtual water trade save water resources?. <i>Water Research</i> , 2019, 163, 114848.	5.3	59
138	Modeling the movement of volatile organic chemicals in columns of unsaturated soil. <i>Water Resources Research</i> , 1990, 26, 1529-1547.	1.7	57
139	Technology status and trends of industrial wastewater treatment: A patent analysis. <i>Chemosphere</i> , 2022, 288, 132483.	4.2	57
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