

John C Crittenden

List of Publications by Year in descending order

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372
papers

24,334
citations

4658

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13379

130
g-index

375
all docs

375
docs citations

375
times ranked

21998
citing authors

#	ARTICLE	IF	CITATIONS
1	MWH's Water Treatment. , 2012, , .		575
2	Stability of commercial metal oxide nanoparticles in water. Water Research, 2008, 42, 2204-2212.	11.3	519
3	Impact of natural organic matter and divalent cations on the stability of aqueous nanoparticles. Water Research, 2009, 43, 4249-4257.	11.3	508
4	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. Environmental Science & Technology, 2019, 53, 2937-2947.	10.0	493
5	A kinetic model for H ₂ O ₂ /UV process in a completely mixed batch reactor. Water Research, 1999, 33, 2315-2328.	11.3	431
6	Surface chemistry of active carbon: Specific adsorption of phenols. Journal of Colloid and Interface Science, 1969, 31, 116-130.	9.4	420
7	Sustainability Science and Engineering:Â The Emergence of a New Metadiscipline. Environmental Science & Technology, 2003, 37, 5314-5324.	10.0	355
8	A Critical Review on Energy Conversion and Environmental Remediation of Photocatalysts with Remodeling Crystal Lattice, Surface, and Interface. ACS Nano, 2019, 13, 9811-9840.	14.6	331
9	Perfluorooctanoic Acid Degradation Using UVâ€Persulfate Process: Modeling of the Degradation and Chlorate Formation. Environmental Science & Technology, 2016, 50, 772-781.	10.0	294
10	Efficient heavy metal removal from industrial melting effluent using fixed-bed process based on porous hydrogel adsorbents. Water Research, 2018, 131, 246-254.	11.3	291
11	Preparation of a Novel TiO ₂ -Based p~n Junction Nanotube Photocatalyst. Environmental Science & Technology, 2005, 39, 1201-1208.	10.0	283
12	Experimental and modeling investigations of ball-milled biochar for the removal of aqueous methylene blue. Chemical Engineering Journal, 2018, 335, 110-119.	12.7	262
13	Removal of Antimonite (Sb(III)) and Antimonate (Sb(V)) from Aqueous Solution Using Carbon Nanofibers That Are Decorated with Zirconium Oxide (ZrO ₂). Environmental Science & Technology, 2015, 49, 11115-11124.	10.0	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. Desalination, 2019, 455, 34-57.	8.2	233
15	Structural Changes of Î³-Al ₂ O ₃ -Supported Catalysts in Hot Liquid Water. ACS Catalysis, 2011, 1, 552-561.	11.2	232
16	Transport of Organic Compounds With Saturated Groundwater Flow: Model Development and Parameter Sensitivity. Water Resources Research, 1986, 22, 271-284.	4.2	228
17	Selfâ€Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2017, 56, 7610-7614.	13.8	221
18	Electrochemical oxidation of ofloxacin using a TiO ₂ -based SnO ₂ -Sb/polytetrafluoroethylene resin-PbO ₂ electrode: Reaction kinetics and mass transfer impact. Applied Catalysis B: Environmental, 2017, 203, 515-525.	20.2	212

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19	Development of a Group Contribution Method To Predict Aqueous Phase Hydroxyl Radical (HO•) Reaction Rate Constants. Environmental Science & Technology, 2009, 43, 6220-6227.	10.0	211
20	Reinventing Fenton Chemistry: Iron Oxide Nanosheet for pH-Insensitive H ₂ O ₂ Activation. Environmental Science and Technology Letters, 2018, 5, 186-191.	8.7	202
21	Oxidation of organics in retentates from reverse osmosis wastewater reuse facilities. Water Research, 2009, 43, 3992-3998.	11.3	197
22	Prediction of multicomponent adsorption equilibria using ideal adsorbed solution theory. Environmental Science & Technology, 1985, 19, 1037-1043.	10.0	193
23	Ball-Milled Carbon Nanomaterials for Energy and Environmental Applications. ACS Sustainable Chemistry and Engineering, 2017, 5, 9568-9585.	6.7	187
24	Predicting GAC Performance With Rapid Small-Scale Column Tests. Journal - American Water Works Association, 1991, 83, 77-87.	0.3	183
25	Deactivation and regeneration of a commercial SCR catalyst: Comparison with alkali metals and arsenic. Applied Catalysis B: Environmental, 2015, 168-169, 195-202.	20.2	180
26	Toxicity and cellular responses of intestinal cells exposed to titanium dioxide. Cell Biology and Toxicology, 2010, 26, 225-238.	5.3	178
27	Impact of Chloride Ions on UV/H ₂ O ₂ and UV/Persulfate Advanced Oxidation Processes. Environmental Science & Technology, 2018, 52, 7380-7389.	10.0	178
28	Photocatalytic wastewater purification with simultaneous hydrogen production using MoS ₂ QD-decorated hierarchical assembly of ZnIn ₂ S ₄ on reduced graphene oxide photocatalyst. Water Research, 2017, 121, 11-19.	11.3	176
29	pH Dependence of Arsenic Oxidation by Rice-Husk-Derived Biochar: Roles of Redox-Active Moieties. Environmental Science & Technology, 2019, 53, 9034-9044.	10.0	175
30	Urban expansion simulation and the spatio-temporal changes of ecosystem services, a case study in Atlanta Metropolitan area, USA. Science of the Total Environment, 2018, 622-623, 974-987.	8.0	171
31	Correlation of Aqueous-Phase Adsorption Isotherms. Environmental Science & Technology, 1999, 33, 2926-2933.	10.0	170
32	Fixed-bed photocatalysts for solar decontamination of water. Environmental Science & Technology, 1994, 28, 435-442.	10.0	169
33	Mechanistic insights into adsorption and reduction of hexavalent chromium from water using magnetic biochar composite: Key roles of Fe ₃ O ₄ and persistent free radicals. Environmental Pollution, 2018, 243, 1302-1309.	7.5	162
34	Photocatalytic oxidation of chlorinated hydrocarbons in water. Water Research, 1997, 31, 429-438.	11.3	154
35	Enhanced photocatalytic ozonation of organic pollutants using an iron-based metal-organic framework. Applied Catalysis B: Environmental, 2019, 251, 66-75.	20.2	154
36	Electrochemical oxidation and advanced oxidation processes using a 3D hexagonal Co ₃ O ₄ array anode for 4-nitrophenol decomposition coupled with simultaneous CO ₂ conversion to liquid fuels via a flower-like CuO cathode. Water Research, 2019, 150, 330-339.	11.3	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.	8.2	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.	8.8	140
39	Accelerating Fe(â€¢)/Fe(â€¢) cycle via Fe(â€¢) substitution for enhancing Fenton-like performance of Fe-MOFs. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119859.	20.2	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.	6.7	133
41	Electrochemical degradation of methylisothiazolinone by using Ti/SnO2-Sb2O3/Î±, Î²-PbO2 electrode: Kinetics, energy efficiency, oxidation mechanism and degradation pathway. <i>Chemical Engineering Journal</i> , 2019, 374, 626-636.	12.7	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.	2.4	132
43	Groundwater remediation from the past to the future: A bibliometric analysis. <i>Water Research</i> , 2017, 119, 114-125.	11.3	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.	12.7	124
45	Arsenate Removal by Nanostructured ZrO ₂ Spheres. <i>Environmental Science & Technology</i> , 2008, 42, 3786-3790.	10.0	123
46	Attachment Efficiency of Nanoparticle Aggregation in Aqueous Dispersions: Modeling and Experimental Validation. <i>Environmental Science & Technology</i> , 2012, 46, 7054-7062.	10.0	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.	8.2	121
48	Tuning Pb(II) Adsorption from Aqueous Solutions on Ultrathin Iron Oxychloride (FeOCl) Nanosheets. <i>Environmental Science & Technology</i> , 2019, 53, 2075-2085.	10.0	121
49	Comparison of MoO3 and WO3 on arsenic poisoning V2O5/TiO2 catalyst: DRIFTS and DFT study. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 692-698.	20.2	117
50	Multipollutant Control (MPC) of Flue Gas from Stationary Sources Using SCR Technology: A Critical Review. <i>Environmental Science & Technology</i> , 2021, 55, 2743-2766.	10.0	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.	11.3	114
52	Oxidation of Microcystin-LR via Activation of Peroxymonosulfate Using Ascorbic Acid: Kinetic Modeling and Toxicity Assessment. <i>Environmental Science & Technology</i> , 2018, 52, 4305-4312.	10.0	114
53	Photocatalytic degradation of 2,4-dichlorophenol using nanoscale Fe/TiO2. <i>Chemical Engineering Journal</i> , 2012, 181-182, 189-195.	12.7	113
54	Electrocatalytic nitrate reduction to ammonia on defective Au1Cu (111) single-atom alloys. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121346.	20.2	113

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55	Userâ€œOriented Batch Reactor Solutions to the Homogeneous Surface Diffusion Model. Journal of Environmental Engineering, ASCE, 1983, 109, 82-101.	1.4	112
56	Kinetics and Modeling of Degradation of Ionophore Antibiotics by UV and UV/H ₂ O ₂ . Environmental Science & Technology, 2013, 47, 4581-4589.	10.0	111
57	Facile synthesis of AgI/BiOI-Bi ₂ O ₃ multi-heterojunctions with high visible light activity for Cr(VI) reduction. Journal of Hazardous Materials, 2016, 317, 8-16.	12.4	111
58	Sea-urchin-structure g-C ₃ N ₄ with narrow bandgap (E _g 2.0â€œeV) for efficient overall water splitting under visible light irradiation. Applied Catalysis B: Environmental, 2019, 249, 275-281.	20.2	110
59	Toward the Next Generation of Sustainable Membranes from Green Chemistry Principles. ACS Sustainable Chemistry and Engineering, 2021, 9, 50-75.	6.7	110
60	Surface Tuning of La _{0.5} Sr _{0.5} CoO ₃ Perovskite Catalysts by Acetic Acid for NO _x Storage and Reduction. Environmental Science & Technology, 2016, 50, 6442-6448.	10.0	108
61	Investigation of the Poisoning Mechanism of Lead on the CeO ₂ â€œWO ₃ Catalyst for the NH ₃ â€œSCR Reaction via in Situ IR and Raman Spectroscopy Measurement. Environmental Science & Technology, 2016, 50, 9576-9582.	10.0	106
62	Arsenic adsorption on Î±-MnO ₂ nanofibers and the significance of (1 0 0) facet as compared with (1 1 0). Chemical Engineering Journal, 2018, 331, 492-500.	12.7	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.	10.3	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.	10.0	106
65	A Critical Review of Membrane Wettability in Membrane Distillation from the Perspective of Interfacial Interactions. Environmental Science & Technology, 2021, 55, 1395-1418.	10.0	105
66	The role of reactive oxygen species and carbonate radical in oxcarbazepine degradation via UV, UV/H ₂ O ₂ : Kinetics, mechanisms and toxicity evaluation. Water Research, 2018, 147, 204-213.	11.3	103
67	Stability and Removal of Water Soluble CdTe Quantum Dots in Water. Environmental Science & Technology, 2008, 42, 321-325.	10.0	102
68	Capturing Lithium from Wastewater Using a Fixed Bed Packed with 3-D MnO ₂ Ion Cages. Environmental Science & Technology, 2016, 50, 13002-13012.	10.0	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.	10.0	102
70	Unique applications and improvements of reverse electrodialysis: A review and outlook. Applied Energy, 2020, 262, 114482.	10.1	101
71	Chemical poison and regeneration of SCR catalysts for NO _x removal from stationary sources. Frontiers of Environmental Science and Engineering, 2016, 10, 413-427.	6.0	100
72	Degradation of thiachlopid via unactivated peroxymonosulfate: The overlooked singlet oxygen oxidation. Chemical Engineering Journal, 2020, 388, 124264.	12.7	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.	2.7	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.	20.2	99
76	Fabrication of the flower-flake-like CuBi ₂ O ₄ /Bi ₂ WO ₆ heterostructure as efficient visible-light driven photocatalysts: Performance, kinetics and mechanism insight. Applied Surface Science, 2019, 495, 143521.	6.1	99
77	Integration of a Photo-Fenton Reaction and a Membrane Filtration using CS/PAN@FeOOH/g-C ₃ N ₄ Electrospun Nanofibers: Synthesis, Characterization, Self-cleaning Performance and Mechanism. Applied Catalysis B: Environmental, 2021, 281, 119519.	20.2	99
78	Design of Rapid Fixed-Bed Adsorption Tests for Nonconstant Diffusivities. Journal of Environmental Engineering, ASCE, 1987, 113, 243-259.	1.4	97
79	Nanofluidic Membranes to Address the Challenges of Salinity Gradient Power Harvesting. ACS Nano, 2021, 15, 5838-5860.	14.6	97
80	Simplified Models for Design of Fixed-Bed Adsorption Systems. Journal of Environmental Engineering, ASCE, 1984, 110, 440-456.	1.4	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.	9.4	92
82	Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered Ti ₃ C ₂ O _x MXene via Adsorption Coupled with Catalytic Reduction Mechanism. Environmental Science & Technology, 2020, 54, 16212-16220.	10.0	92
83	Highly enhanced photocatalytic reduction of Cr(VI) on AgI/TiO ₂ under visible light irradiation: Influence of calcination temperature. Journal of Hazardous Materials, 2016, 307, 213-220.	12.4	90
84	Impacts of Pb and SO ₂ Poisoning on CeO ₂ -WO ₃ /TiO ₂ -SiO ₂ SCR Catalyst. Environmental Science & Technology, 2017, 51, 11943-11949.	10.0	90
85	Stability of Pt/Al ₂ O ₃ Catalysts in Model Biomass Solutions. Topics in Catalysis, 2012, 55, 162-174.	2.8	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.	6.3	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.	12.4	89
88	Remediation of Petroleum-Contaminated Soil and Simultaneous Recovery of Oil by Fast Pyrolysis. Environmental Science & Technology, 2018, 52, 5330-5338.	10.0	87
89	Trichloroethene Degradation by UV/H ₂ O ₂ Advanced Oxidation Process: A Product Study and Kinetic Modeling. Environmental Science & Technology, 2007, 41, 1696-1703.	10.0	86
90	Solar detoxification of fuel-contaminated groundwater using fixed-bed photocatalysts. Water Environment Research, 1996, 68, 270-278.	2.7	85

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91	Antimony Removal from Aqueous Solution Using Novel Fe-MnO_2 Nanofibers: Equilibrium, Kinetic, and Density Functional Theory Studies. ACS Sustainable Chemistry and Engineering, 2017, 5, 2255-2264.	6.7	85
92	A bibliometric analysis of industrial wastewater treatments from 1998 to 2019. Environmental Pollution, 2021, 275, 115785.	7.5	84
93	Zirconia (ZrO_2) Embedded in Carbon Nanowires via Electrospinning for Efficient Arsenic Removal from Water Combined with DFT Studies. ACS Applied Materials & Interfaces, 2016, 8, 18912-18921.	8.0	83
94	High performance ultrafiltration membrane composed of PVDF blended with its derivative copolymer PVDF-g-PEGMA. Journal of Membrane Science, 2013, 445, 66-75.	8.2	82
95	Phase-Mediated Heavy Metal Adsorption from Aqueous Solutions Using Two-Dimensional Layered MoS_2 . ACS Applied Materials & Interfaces, 2019, 11, 38789-38797.	8.0	82
96	Remediation of nitrate contamination by membrane hydrogenotrophic denitrifying biofilm integrated in microbial electrolysis cell. Water Research, 2021, 188, 116498.	11.3	82
97	Transport of Organic Compounds With Saturated Groundwater Flow: Experimental Results. Water Resources Research, 1986, 22, 285-295.	4.2	81
98	Distribution and source of microplastics in China's second largest reservoir - Danjiangkou Reservoir. Journal of Environmental Sciences, 2021, 102, 74-84.	6.1	81
99	Prediction of multicomponent adsorption equilibria in background mixtures of unknown composition. Water Research, 1985, 19, 1537-1548.	11.3	80
100	Cu_2O nanocrystals/ TiO_2 microspheres film on a rotating disk containing long-afterglow phosphor for enhanced round-the-clock photocatalysis. Applied Catalysis B: Environmental, 2018, 224, 239-248.	20.2	80
101	NH_3 -SCR performance of WO_3 blanketed CeO_2 with different morphology: Balance of surface reducibility and acidity. Catalysis Today, 2019, 332, 42-48.	4.4	79
102	The individual and Co-exposure degradation of benzophenone derivatives by UV/ H_2O_2 and UV/PDS in different water matrices. Water Research, 2019, 159, 102-110.	11.3	79
103	Efficient sulfadiazine degradation via in-situ epitaxial grow of Graphitic Carbon Nitride (g- C_3N_4) on carbon dots heterostructures under visible light irradiation: Synthesis, mechanisms and toxicity evaluation. Journal of Colloid and Interface Science, 2020, 561, 696-707.	9.4	79
104	Decolorization of industrial wastewater by ozonation followed by adsorption on activated carbon. Journal of Hazardous Materials, 2010, 176, 181-185.	12.4	76
105	Infrastructure ecology: an evolving paradigm for sustainable urban development. Journal of Cleaner Production, 2017, 163, S19-S27.	9.3	76
106	Preparing future engineers for challenges of the 21st century: Sustainable engineering. Journal of Cleaner Production, 2010, 18, 698-701.	9.3	75
107	Deactivation Mechanism of Multipoisons in Cement Furnace Flue Gas on Selective Catalytic Reduction Catalysts. Environmental Science & Technology, 2019, 53, 6937-6944.	10.0	75
108	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater – a perspective. Environmental Science: Nano, 2020, 7, 2178-2194.	4.3	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.	10.0	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.	8.2	72
112	Decontamination of water using adsorption and photocatalysis. Water Research, 1997, 31, 411-418.	11.3	70
113	Viewpoint: Adding Sustainability to the Engineer's Toolbox: A Challenge for Engineering Educators. Environmental Science & Technology, 2007, 41, 4847-4849.	10.0	70
114	A comparison of pilot-scale photocatalysis and enhanced coagulation for disinfection byproduct mitigation. Water Research, 2009, 43, 1597-1610.	11.3	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.	7.8	70
116	Oxidation Mechanisms of the UV/Free Chlorine Process: Kinetic Modeling and Quantitative Structure Activity Relationships. Environmental Science & Technology, 2019, 53, 4335-4345.	10.0	70
117	Novel RGO/ γ -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.	12.4	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.	9.3	67
119	Performance of Modified $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_{3-\delta}$ Perovskite Catalysts for NH_3 Oxidation: TPD, DFT, and Kinetic Studies. Environmental Science & Technology, 2018, 52, 7443-7449.	10.0	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.	10.0	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.	10.3	67
122	Facilitating Redox Cycles of Copper Species by Pollutants in Peroxymonosulfate Activation. Environmental Science & Technology, 2022, 56, 2637-2646.	10.0	67
123	Excessive phosphorus enhances <i>Chlorella regularis</i> lipid production under nitrogen starvation stress during glucose heterotrophic cultivation. Chemical Engineering Journal, 2017, 330, 566-572.	12.7	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.	3.7	65
125	Photocatalytic inactivation of <i>Cryptosporidium parvum</i> with TiO_2 and low-pressure ultraviolet irradiation. Water Research, 2008, 42, 1523-1530.	11.3	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.	11.3	64

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127	Sustainability in Engineering Education and Research at U.S. Universities. Environmental Science & Technology, 2009, 43, 5558-5564.	10.0	63
128	Blended PVC/PVC-g-PEGMA ultrafiltration membranes with enhanced performance and antifouling properties. Applied Surface Science, 2018, 455, 987-996.	6.1	62
129	Superselective Hg(II) Removal from Water Using a Thiol-Laced MOF-Based Sponge Monolith: Performance and Mechanism. Environmental Science & Technology, 2022, 56, 2677-2688.	10.0	62
130	Conductive and hydrophilic polypyrrole modified membrane cathodes and fouling reduction in MBR. Journal of Membrane Science, 2013, 429, 252-258.	8.2	61
131	Self-Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. Angewandte Chemie, 2017, 129, 7718-7722.	2.0	61
132	Quantitative structure-activity relationship models for predicting reaction rate constants of organic contaminants with hydrated electrons and their mechanistic pathways. Water Research, 2019, 151, 468-477.	11.3	61
133	Sulfadiazine destruction by chlorination in a pilot-scale water distribution system: Kinetics, pathway, and bacterial community structure. Journal of Hazardous Materials, 2019, 366, 88-97.	12.4	61
134	Review of Advances in Engineering Nanomaterial Adsorbents for Metal Removal and Recovery from Water: Synthesis and Microstructure Impacts. ACS ES&T Engineering, 2021, 1, 623-661.	7.6	61
135	Occurrence and risk assessment of selected phthalates in drinking water from waterworks in China. Environmental Science and Pollution Research, 2015, 22, 10690-10698.	5.3	60
136	Simulating the performance of fixed-bed granular activated carbon adsorbents: Removal of synthetic organic chemicals in the presence of background organic matter. Water Research, 2005, 39, 2407-2421.	11.3	59
137	Can virtual water trade save water resources?. Water Research, 2019, 163, 114848.	11.3	59
138	Modeling the movement of volatile organic chemicals in columns of unsaturated soil. Water Resources Research, 1990, 26, 1529-1547.	4.2	57
139	Technology status and trends of industrial wastewater treatment: A patent analysis. Chemosphere, 2022, 288, 132483.	8.2	57
140	Linear Free Energy Relationships between Aqueous phase Hydroxyl Radical Reaction Rate Constants and Free Energy of Activation. Environmental Science & Technology, 2011, 45, 3479-3486.	10.0	56
141	Insight into chloride effect on the UV/peroxymonosulfate process. Chemical Engineering Journal, 2018, 352, 477-489.	12.7	56
142	Tannic acid-metal complex modified MXene membrane for contaminants removal from water. Journal of Membrane Science, 2021, 622, 119042.	8.2	56
143	Does microplastic really represent a threat? A review of the atmospheric contamination sources and potential impacts. Science of the Total Environment, 2021, 777, 146020.	8.0	56
144	The influence of mass transfer on solute transport in column experiments with an aggregated soil. Journal of Contaminant Hydrology, 1987, 1, 375-393.	3.3	55

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145	Photochemical Transformation and Photoinduced Toxicity Reduction of Silver Nanoparticles in the Presence of Perfluorocarboxylic Acids under UV Irradiation. <i>Environmental Science & Technology</i> , 2014, 48, 4946-4953.	10.0	55
146	Life cycle assessment of low impact development technologies combined with conventional centralized water systems for the City of Atlanta, Georgia. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	6.0	55
147	Fabrication of visible-light active Fe ₂ O ₃ -GQDs/NF-TiO ₂ composite film with highly enhanced photoelectrocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 347-356.	20.2	54
148	Effective degradation of aqueous carbamazepine on a novel blue-colored TiO ₂ nanotube arrays membrane filter anode. <i>Journal of Hazardous Materials</i> , 2021, 402, 123530.	12.4	54
149	Environmental Impacts over the Life Cycle of Residential Buildings Using Different Exterior Wall Systems. <i>Journal of Infrastructure Systems</i> , 2009, 15, 211-221.	1.8	53
150	Closed-Loop Electrochemical Recycling of Spent Copper(II) from Etchant Wastewater Using a Carbon Nanotube Modified Graphite Felt Anode. <i>Environmental Science & Technology</i> , 2018, 52, 5940-5948.	10.0	53
151	Integration of microbial fuel cell with independent membrane cathode bioreactor for power generation, membrane fouling mitigation and wastewater treatment. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17865-17872.	7.1	52
152	Removal of dissolved organic carbon using granular activated carbon. <i>Water Research</i> , 1993, 27, 715-721.	11.3	51
153	Cd complexation with mercapto-functionalized attapulgite (MATP): Adsorption and DFT study. <i>Chemical Engineering Journal</i> , 2019, 366, 569-576.	12.7	51
154	Adsorption mechanism for removing different species of fluoride by designing of core-shell boehmite. <i>Journal of Hazardous Materials</i> , 2020, 394, 122555.	12.4	51
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