

Michael R. Hoffmann

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232
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34,557
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h-index

184
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240
ext. papers

36,901
ext. citations

8.1
avg, IF

7.31
L-index

#	Paper	IF	Citations
232	Environmental Applications of Semiconductor Photocatalysis. <i>Chemical Reviews</i> , 1995 , 95, 69-96	68.1	15722
231	Effects of Single Metal-Ion Doping on the Visible-Light Photoreactivity of TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 783-792	3.8	616
230	Photolysis of chloroform and other organic molecules in aqueous titanium dioxide suspensions. <i>Environmental Science & Technology</i> , 1991 , 25, 494-500	10.3	592
229	Oxidative Power of Nitrogen-Doped TiO ₂ Photocatalysts under Visible Illumination. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17269-17273	3.4	520
228	Photocatalytic production of hydrogen peroxides and organic peroxides in aqueous suspensions of titanium dioxide, zinc oxide, and desert sand. <i>Environmental Science & Technology</i> , 1988 , 22, 798-806	10.3	520
227	Optimization of Ultrasonic Irradiation as an Advanced Oxidation Technology. <i>Environmental Science & Technology</i> , 1997 , 31, 2237-2243	10.3	349
226	Effects of the preparation method of the ternary CdS/TiO ₂ /Pt hybrid photocatalysts on visible light-induced hydrogen production. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2379		344
225	Photocatalytic Production of H ₂ O ₂ and Organic Peroxides on Quantum-Sized Semiconductor Colloids. <i>Environmental Science & Technology</i> , 1994 , 28, 776-85	10.3	319
224	Infrared Spectra of Photoinduced Species on Hydroxylated Titania Surfaces. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 9842-9850	3.4	283
223	Treatment technologies for aqueous perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA). <i>Frontiers of Environmental Science and Engineering in China</i> , 2009 , 3, 129-151		282
222	Application of ultrasonic irradiation for the degradation of chemical contaminants in water. <i>Ultrasonics Sonochemistry</i> , 1996 , 3, S163-S172	8.9	282
221	Photocatalytic oxidation of organic acids on quantum-sized semiconductor colloids. <i>Environmental Science & Technology</i> , 1994 , 28, 786-93	10.3	275
220	The Sonochemical Degradation of Azobenzene and Related Azo Dyes: Rate Enhancements via Fenton [®] Reactions. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 301-307	2.8	273
219	Henry [®] law constants of some environmentally important aldehydes. <i>Environmental Science & Technology</i> , 1988 , 22, 1415-8	10.3	264
218	Time-resolved microwave conductivity. Part 1. TiO ₂ photoreactivity and size quantization. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994 , 90, 3315-3322		222
217	Aromatic Compound Degradation in Water Using a Combination of Sonolysis and Ozonolysis. <i>Environmental Science & Technology</i> , 1998 , 32, 2727-2733	10.3	216
216	Photocatalytic degradation of pentachlorophenol on titanium dioxide particles: identification of intermediates and mechanism of reaction. <i>Environmental Science & Technology</i> , 1993 , 27, 1681-1689	10.3	214

215	Development and Optimization of a TiO ₂ -Coated Fiber-Optic Cable Reactor: Photocatalytic Degradation of 4-Chlorophenol. <i>Environmental Science & Technology</i> , 1995 , 29, 2974-81	10.3	202
214	Sonochemical degradation of perfluorooctane sulfonate (PFOS) and perfluorooctanoate (PFOA) in landfill groundwater: environmental matrix effects. <i>Environmental Science & Technology</i> , 2008 , 42, 8057-63	10.3	201
213	Degradation and Removal Methods for Perfluoroalkyl and Polyfluoroalkyl Substances in Water. <i>Environmental Engineering Science</i> , 2016 , 33, 615-649	2	198
212	Reductive defluorination of aqueous perfluorinated alkyl surfactants: effects of ionic headgroup and chain length. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 690-6	2.8	187
211	Slow Surface Charge Trapping Kinetics on Irradiated TiO ₂ . <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2922-2927	3.4	185
210	TiO ₂ -photocatalyzed As(III) oxidation in aqueous suspensions: reaction kinetics and effects of adsorption. <i>Environmental Science & Technology</i> , 2005 , 39, 1880-6	10.3	184
209	Effects of Metal-Ion Dopants on the Photocatalytic Reactivity of Quantum-Sized TiO ₂ Particles. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 1091-1092		183
208	Kinetics and Mechanism of the Sonolytic Degradation of CCl ₄ : Intermediates and Byproducts. <i>Environmental Science & Technology</i> , 1996 , 30, 864-871	10.3	181
207	Photocatalytic Hydrogen Production with Visible Light over Pt-Interlinked Hybrid Composites of Cubic-Phase and Hexagonal-Phase CdS. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12069-12073	3.8	177
206	Chemical mechanism of inorganic oxidants in the TiO ₂ /UV process: increased rates of degradation of chlorinated hydrocarbons. <i>Environmental Science & Technology</i> , 1995 , 29, 2567-73	10.3	176
205	Atmospheric chemistry of peroxides: a review. <i>Atmospheric Environment Part A General Topics</i> , 1990 , 24, 1601-1633		176
204	Kinetics and Mechanism of the Sonolytic Destruction of Methyl tert-Butyl Ether by Ultrasonic Irradiation in the Presence of Ozone. <i>Environmental Science & Technology</i> , 1998 , 32, 3194-3199	10.3	173
203	Reductive dissolution of Fe(III) oxides by <i>Pseudomonas</i> sp. 200. <i>Biotechnology and Bioengineering</i> , 1988 , 32, 1081-96	4.9	171
202	Sonolytic Destruction of Methyltert-Butyl Ether by Ultrasonic Irradiation: The Role of O ₃ , H ₂ O ₂ , Frequency, and Power Density. <i>Environmental Science & Technology</i> , 1999 , 33, 3199-3205	10.3	169
201	Electrochemical Production of Hydroxyl Radical at Polycrystalline Nb-Doped TiO ₂ Electrodes and Estimation of the Partitioning between Hydroxyl Radical and Direct Hole Oxidation Pathways. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 2637-2643	3.4	164
200	Kinetics and mechanism of the sonolytic conversion of the aqueous perfluorinated surfactants, perfluorooctanoate (PFOA), and perfluorooctane sulfonate (PFOS) into inorganic products. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 4261-70	2.8	163
199	Photoreduction of iron oxyhydroxides in the presence of important atmospheric organic compounds. <i>Environmental Science & Technology</i> , 1993 , 27, 2056-2062	10.3	162
198	Kinetics and Mechanism of the Enhanced Reductive Degradation of Nitrobenzene by Elemental Iron in the Presence of Ultrasound. <i>Environmental Science & Technology</i> , 2000 , 34, 1758-1763	10.3	157

- 197 Photoreductive Mechanism of CCl₄ Degradation on TiO₂ Particles and Effects of Electron Donors. *Environmental Science & Technology*, **1995**, 29, 1646-54 10.3 154
- 196 Time-resolved microwave conductivity. Part 2. Quantum-sized TiO₂ and the effect of adsorbates and light intensity on charge-carrier dynamics. *Journal of the Chemical Society, Faraday Transactions*, **1994**, 90, 3323-3330 152
- 195 Kinetics and Mechanism of the Sonolytic Degradation of Chlorinated Hydrocarbons: Frequency Effects. *Journal of Physical Chemistry A*, **1999**, 103, 2734-2739 2.8 150
- 194 Chemical Bubble Dynamics and Quantitative Sonochemistry. *Journal of Physical Chemistry A*, **1998**, 102, 6927-6934 2.8 149
- 193 Kinetics and Mechanism of Pentachlorophenol Degradation by Sonication, Ozonation, and Sonolytic Ozonation. *Environmental Science & Technology*, **2000**, 34, 1280-1285 10.3 148
- 192 Kinetics and mechanism of oxidation of hydrogen sulfide by hydrogen peroxide in acidic solution. *Environmental Science & Technology*, **1977**, 11, 61-66 10.3 139
- 191 Activation of Peroxymonosulfate by Oxygen Vacancies-Enriched Cobalt-Doped Black TiO Nanotubes for the Removal of Organic Pollutants. *Environmental Science & Technology*, **2019**, 53, 6972-6980 10.3 135
- 190 Brüstled basicity of the air-water interface. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18679-83 11.5 135
- 189 Synthesis and Stabilization of Blue-Black TiO Nanotube Arrays for Electrochemical Oxidant Generation and Wastewater Treatment. *Environmental Science & Technology*, **2016**, 50, 11888-11894 10.3 133
- 188 Synergistic Effects of Sonolysis Combined with Ozonolysis for the Oxidation of Azobenzene and Methyl Orange. *Journal of Physical Chemistry A*, **2000**, 104, 8930-8935 2.8 132
- 187 Chemical composition of fogwater collected along the California coast. *Environmental Science & Technology*, **1985**, 19, 730-6 10.3 132
- 186 Surface Structures of 4-Chlorocatechol Adsorbed on Titanium Dioxide. *Environmental Science & Technology*, **1996**, 30, 2535-2542 10.3 131
- 185 Dynamics of Lithium Dendrite Growth and Inhibition: Pulse Charging Experiments and Monte Carlo Calculations. *Journal of Physical Chemistry Letters*, **2014**, 5, 1721-6 6.4 129
- 184 Chemical and Physical Characterization of a TiO₂-Coated Fiber Optic Cable Reactor. *Environmental Science & Technology*, **1996**, 30, 2806-2812 10.3 127
- 183 Electrochemical Water Splitting Coupled with Organic Compound Oxidation: The Role of Active Chlorine Species. *Journal of Physical Chemistry C*, **2009**, 113, 7935-7945 3.8 126
- 182 Photocatalytic Production of Hydrogen from Water with Visible Light Using Hybrid Catalysts of CdS Attached to Microporous and Mesoporous Silicas. *Journal of Physical Chemistry C*, **2007**, 111, 18195-18203 3.8 124
- 181 Sonochemical degradation of p-nitrophenol in a parallel-plate near-field acoustical processor. *Environmental Science & Technology*, **1995**, 29, 2790-6 10.3 124
- 180 Electrochemical disinfection of toilet wastewater using wastewater electrolysis cell. *Water Research*, **2016**, 92, 164-72 12.5 123

179	Sonochemical degradation of perfluorooctane sulfonate (PFOS) and perfluorooctanoate (PFOA) in groundwater: kinetic effects of matrix inorganics. <i>Environmental Science & Technology</i> , 2010 , 44, 445-50	10.3	119
178	Kinetics and Mechanism of the Enhanced Reductive Degradation of CCl ₄ by Elemental Iron in the Presence of Ultrasound. <i>Environmental Science & Technology</i> , 1998 , 32, 3011-3016	10.3	116
177	Photoinduced reductive dissolution of .alpha.-iron oxide (.alpha.-Fe ₂ O ₃) by bisulfite. <i>Environmental Science & Technology</i> , 1986 , 20, 943-8	10.3	110
176	Electron Traps and the Stark Effect on Hydroxylated Titania Photocatalysts. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7654-7658	3.4	109
175	Environmental photochemistry: Is iron oxide (hematite) an active photocatalyst? A comparative study: Fe ₂ O ₃ , ZnO, TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1989 , 48, 161-169	4.7	109
174	Sonolytic Decomposition of Ozone in Aqueous Solution: Mass Transfer Effects. <i>Environmental Science & Technology</i> , 1998 , 32, 3941-3947	10.3	108
173	Characterization of soluble and colloidal phase metal complexes in river water by ultrafiltration. A mass-balance approach. <i>Environmental Science & Technology</i> , 1981 , 15, 655-61	10.3	105
172	Toxic Byproduct Formation during Electrochemical Treatment of Latrine Wastewater. <i>Environmental Science & Technology</i> , 2017 , 51, 7111-7119	10.3	102
171	Degradation of Alkylphenol Ethoxylate Surfactants in Water with Ultrasonic Irradiation. <i>Environmental Science & Technology</i> , 2000 , 34, 311-317	10.3	101
170	Cobalt-Doped Black TiO Nanotube Array as a Stable Anode for Oxygen Evolution and Electrochemical Wastewater Treatment. <i>ACS Catalysis</i> , 2018 , 8, 4278-4287	13.1	100
169	Photocatalytic production of hydrogen on Ni/NiO/KNbO ₃ /CdS nanocomposites using visible light. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2371		100
168	Proton Availability at the Air/Water Interface. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1599-1604	6.4	97
167	Sonochemical decomposition of phenol: evidence for a synergistic effect of ozone and ultrasound for the elimination of total organic carbon from water. <i>Environmental Science & Technology</i> , 2006 , 40, 6818-23	10.3	97
166	Effects of anodic potential and chloride ion on overall reactivity in electrochemical reactors designed for solar-powered wastewater treatment. <i>Environmental Science & Technology</i> , 2014 , 48, 2377-84	10.3	96
165	Iron photochemistry of aqueous suspensions of ambient aerosol with added organic acids. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 3271-3279	5.5	94
164	Sonochemical degradation of perfluorooctanesulfonate in aqueous film-forming foams. <i>Environmental Science & Technology</i> , 2010 , 44, 432-8	10.3	93
163	Metal ion-sulfur(IV) chemistry. 3. Thermodynamics and kinetics of transient iron(III)-sulfur(IV) complexes. <i>Environmental Science & Technology</i> , 1988 , 22, 899-907	10.3	93
162	The H ₂ SO ₄ -HNO ₃ -NH ₃ system at high humidities and in fogs: 1. Spatial and temporal patterns in the San Joaquin Valley of California. <i>Journal of Geophysical Research</i> , 1986 , 91, 1073		91

161	Oxidation of Gas-Phase SO ₂ on the Surfaces of Acidic Microdroplets: Implications for Sulfate and Sulfate Radical Anion Formation in the Atmospheric Liquid Phase. <i>Environmental Science & Technology</i> , 2015 , 49, 13768-76	10.3	89
160	Kinetics and mechanism of the oxidation of sulfide by oxygen: catalysis by homogeneous metal-phthalocyanine complexes. <i>Environmental Science & Technology</i> , 1979 , 13, 1406-1414	10.3	88
159	Photoelectrochemical Degradation of 4-Chlorocatechol at TiO ₂ Electrodes: Comparison between Sorption and Photoreactivity. <i>Environmental Science & Technology</i> , 1997 , 31, 2298-2302	10.3	86
158	Protonation and oligomerization of gaseous isoprene on mildly acidic surfaces: implications for atmospheric chemistry. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 6027-32	2.8	85
157	Photoreductive dissolution of iron oxides trapped in ice and its environmental implications. <i>Environmental Science & Technology</i> , 2010 , 44, 4142-8	10.3	82
156	Kinetics of the removal of iron pyrite from coal by microbial catalysis. <i>Applied and Environmental Microbiology</i> , 1981 , 42, 259-71	4.8	82
155	Regulation of Dissimilatory Fe(III) Reduction Activity in <i>Shewanella putrefaciens</i> . <i>Applied and Environmental Microbiology</i> , 1990 , 56, 2811-7	4.8	81
154	Artificial photosynthesis of C ₁ -C ₃ hydrocarbons from water and CO ₂ on titanate nanotubes decorated with nanoparticle elemental copper and CdS quantum dots. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 4658-66	2.8	80
153	Simultaneous spectrophotometric measurement of iron(II) and iron(III) in atmospheric water. <i>Environmental Science & Technology</i> , 1992 , 26, 1731-1736	10.3	80
152	Solar-powered electrochemical oxidation of organic compounds coupled with the cathodic production of molecular hydrogen. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 7616-26	2.8	79
151	Urea degradation by electrochemically generated reactive chlorine species: products and reaction pathways. <i>Environmental Science & Technology</i> , 2014 , 48, 11504-11	10.3	78
150	Perfluorinated surfactant chain-length effects on sonochemical kinetics. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 9834-42	2.8	77
149	Adsorption and photodegradation of dimethyl methylphosphonate vapor at TiO ₂ surfaces. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19779-85	3.4	77
148	Visible-Light Photoactivity of Nitrogen-Doped TiO ₂ : Photo-oxidation of HCO ₂ H to CO ₂ and H ₂ O. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 15357-15362	3.8	75
147	Oxidation of hydrogen sulfide in aqueous solution by ultrasonic irradiation. <i>Environmental Science & Technology</i> , 1992 , 26, 2420-2428	10.3	74
146	Kinetics and mechanism of the oxidation of aqueous hydrogen sulfide by peroxymonosulfate. <i>Environmental Science & Technology</i> , 1990 , 24, 1819-1824	10.3	74
145	Mathematical Model of a Photocatalytic Fiber-Optic Cable Reactor for Heterogeneous Photocatalysis. <i>Environmental Science & Technology</i> , 1998 , 32, 398-404	10.3	73
144	Sonochemical Degradation Rates of Volatile Solutes. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 2696-2699	2.8	73

143	Analysis of aldehydes in cloud- and fogwater samples by HPLC with a postcolumn reaction detector. <i>Environmental Science & Technology</i> , 1989 , 23, 556-561	10.3	72
142	CO ₂ , water, and sunlight to hydrocarbon fuels: a sustained sunlight to fuel (Joule-to-Joule) photoconversion efficiency of 1%. <i>Energy and Environmental Science</i> , 2019 , 12, 2685-2696	35.4	71
141	Degradation of triethanolamine and chemical oxygen demand reduction in wastewater by photoactivated periodate. <i>Water Environment Research</i> , 1997 , 69, 1112-1119	2.8	71
140	Photocatalytic Production of H ₂ on Nanocomposite Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7476-7488	3.9	71
139	Scale-Up of Sonochemical Reactors for Water Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 3855-3860	3.9	71
138	Photochemical transformations in ice: Implications for the fate of chemical species. <i>Geophysical Research Letters</i> , 2000 , 27, 3321-3324	4.9	71
137	Degradation and Mineralization of Carbamazepine Using an Electro-Fenton Reaction Catalyzed by Magnetite Nanoparticles Fixed on an Electrocatalytic Carbon Fiber Textile Cathode. <i>Environmental Science & Technology</i> , 2018 , 52, 12667-12674	10.3	71
136	Multilayer Heterojunction Anodes for Saline Wastewater Treatment: Design Strategies and Reactive Species Generation Mechanisms. <i>Environmental Science & Technology</i> , 2016 , 50, 8780-7	10.3	68
135	Dry Deposition of Biogenic Terpenes via Cationic Oligomerization on Environmental Aqueous Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3102-8	6.4	66
134	Role of Nitrogen Dioxide in the Production of Sulfate during Chinese Haze-Aerosol Episodes. <i>Environmental Science & Technology</i> , 2018 , 52, 2686-2693	10.3	65
133	Solar-Powered Production of Molecular Hydrogen from Water. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 885-889	3.8	64
132	Impact of humic acid on the photoreductive degradation of perfluorooctane sulfonate (PFOS) by UV/Iodide process. <i>Water Research</i> , 2017 , 127, 50-58	12.5	63
131	Metal ion-sulfur(IV) chemistry. 2. Kinetic studies of the redox chemistry of copper(II)-sulfur(IV) complexes. <i>Environmental Science & Technology</i> , 1988 , 22, 891-8	10.3	63
130	Anion fractionation and reactivity at air/water:methanol interfaces. Implications for the origin of hofmeister effects. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7157-61	3.4	62
129	Electrolysis of urea and urine for solar hydrogen. <i>Catalysis Today</i> , 2013 , 199, 2-7	5.3	61
128	Catalytic autoxidation of hydrogen sulfide in wastewater. <i>Environmental Science & Technology</i> , 1991 , 25, 1153-1160	10.3	60
127	Electrochemical Transformation of Trace Organic Contaminants in Latrine Wastewater. <i>Environmental Science & Technology</i> , 2016 , 50, 10198-208	10.3	59
126	Superacid Chemistry on Mildly Acidic Water. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3488-3493	6.4	59

125	Combinatorial doping of TiO ₂ with platinum (Pt), chromium (Cr), vanadium (V), and nickel (Ni) to achieve enhanced photocatalytic activity with visible light irradiation. <i>Journal of Materials Research</i> , 2010 , 25, 149-158	2.5	59
124	Quantum Yields of the Photocatalytic Oxidation of Formate in Aqueous TiO ₂ Suspensions under Continuous and Periodic Illumination. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1351-1354	3.4	57
123	Electrochemical treatment of human waste coupled with molecular hydrogen production. <i>RSC Advances</i> , 2014 , 4, 4596-4608	3.7	56
122	Reductive degradation of perfluoroalkyl compounds with aquated electrons generated from iodide photolysis at 254 nm. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 1945-53	4.2	56
121	Sorption of perfluorochemicals to granular activated carbon in the presence of ultrasound. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 2250-7	2.8	56
120	Instrument to collect fogwater for chemical analysis. <i>Review of Scientific Instruments</i> , 1985 , 56, 1291-1293	7	54
119	Synthesis of g-C ₃ N ₄ /Bi ₂ O ₃ /TiO ₂ composite nanotubes: enhanced activity under visible light irradiation and improved photoelectrochemical activity. <i>RSC Advances</i> , 2015 , 5, 48983-48991	3.7	52
118	Multiphase Porous Electrochemical Catalysts Derived from Iron-Based Metal-Organic Framework Compounds. <i>Environmental Science & Technology</i> , 2019 , 53, 6474-6482	10.3	51
117	Thermal relaxation of lithium dendrites. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8000-5	3.6	51
116	Quantifying the dependence of dead lithium losses on the cycling period in lithium metal batteries. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24965-70	3.6	50
115	Heterogeneous reaction of gaseous ozone with aqueous iodide in the presence of aqueous organic species. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 6016-21	2.8	50
114	Photogeneration of distant radical pairs in aqueous pyruvic acid glasses. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 931-5	2.8	49
113	Digital Loop-Mediated Isothermal Amplification on a Commercial Membrane. <i>ACS Sensors</i> , 2019 , 4, 242-249	9	49
112	Criegee Intermediates React with Levoglucosan on Water. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3888-3894	6.4	48
111	Anions dramatically enhance proton transfer through aqueous interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 10228-32	11.5	48
110	Enhancing the activity of oxygen-evolution and chlorine-evolution electrocatalysts by atomic layer deposition of TiO. <i>Energy and Environmental Science</i> , 2019 , 12, 358-365	35.4	45
109	The chemical composition of intercepted cloudwater in the Sierra Nevada. <i>Atmospheric Environment Part A General Topics</i> , 1990 , 24, 959-972		45
108	Fogwater chemistry at Riverside, California. <i>Atmospheric Environment Part B Urban Atmosphere</i> , 1990 , 24, 185-205		44

107	Intensive studies of Sierra Nevada cloudwater chemistry and its relationship to precursor aerosol and gas concentrations. <i>Atmospheric Environment Part A General Topics</i> , 1990 , 24, 1741-1757		44
106	BixTi1Oz Functionalized Heterojunction Anode with an Enhanced Reactive Chlorine Generation Efficiency in Dilute Aqueous Solutions. <i>Chemistry of Materials</i> , 2015 , 27, 2224-2233	9.6	43
105	UV/Nitritotriacetic Acid Process as a Novel Strategy for Efficient Photoreductive Degradation of Perfluorooctanesulfonate. <i>Environmental Science & Technology</i> , 2018 , 52, 2953-2962	10.3	43
104	Photoreduction of iron oxyhydroxides and the photooxidation of halogenated acetic acids. <i>Environmental Science & Technology</i> , 1995 , 29, 1215-22	10.3	43
103	Hofmeister effects in micromolar electrolyte solutions. <i>Journal of Chemical Physics</i> , 2012 , 136, 154707	3.9	42
102	Sonolytic decomposition of aqueous bioxalate in the presence of ozone. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 4968-80	2.8	42
101	Prompt Formation of Organic Acids in Pulse Ozonation of Terpenes on Aqueous Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2374-2379	6.4	41
100	Photocatalytic conversion of carbon dioxide to methane on TiO ₂ /CdS in aqueous isopropanol solution. <i>Catalysis Today</i> , 2016 , 266, 153-159	5.3	40
99	In situ mass spectrometric detection of interfacial intermediates in the oxidation of RCOOH(aq) by gas-phase OH-radicals. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 4130-7	2.8	40
98	Applications of ultrasound in NAPL remediation: sonochemical degradation of TCE in aqueous surfactant solutions. <i>Environmental Science & Technology</i> , 2001 , 35, 3019-24	10.3	40
97	Photocatalytic oxidation of aqueous ammonia over platinized microwave-assisted titanate nanotubes. <i>Applied Catalysis B: Environmental</i> , 2010 , 99, 74-80	21.8	39
96	Cooperative hydration of pyruvic acid in ice. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10621-46.4	46.4	39
95	Hydrogen isotope effects and mechanism of aqueous ozone and peroxone decompositions. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4432-6	16.4	39
94	Phosphate Recovery from Human Waste via the Formation of Hydroxyapatite during Electrochemical Wastewater Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3135-3142	8.3	37
93	Annealing kinetics of electrodeposited lithium dendrites. <i>Journal of Chemical Physics</i> , 2015 , 143, 134701	3.9	37
92	Aldehyde-bisulfite adducts: prediction of some of their thermodynamic and kinetic properties. <i>Environmental Science & Technology</i> , 1988 , 22, 92-9	10.3	37
91	Stepwise Oxidation of Aqueous Dicarboxylic Acids by Gas-Phase OH Radicals. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 527-34	6.4	36
90	Conversion of gaseous nitrogen dioxide to nitrate and nitrite on aqueous surfactants. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5144-9	3.6	36

89	Stability, Stoichiometry, and Structure of Fe(II) and Fe(III) Complexes with Di-2-pyridyl Ketone Benzoylhydrazone: Environmental Applications. <i>Environmental Science & Technology</i> , 1994 , 28, 2080-6	10.3	36
88	Kinetics and mechanism of dissimilative Fe(III) reduction by <i>Pseudomonas</i> sp. 200. <i>Biotechnology and Bioengineering</i> , 1986 , 28, 1657-71	4.9	36
87	Facet-dependent performance of BiOBr for photocatalytic reduction of Cr(VI). <i>RSC Advances</i> , 2016 , 6, 2028-2031	3.7	35
86	Branched polymeric media: boron-chelating resins from hyperbranched polyethylenimine. <i>Environmental Science & Technology</i> , 2012 , 46, 8998-9004	10.3	35
85	Weak acids enhance halogen activation on atmospheric water@ surfaces. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 4935-40	2.8	35
84	Design and preliminary implementation of onsite electrochemical wastewater treatment and recycling toilets for the developing world. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1439-1450	4.2	34
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