

Michael R. Hoffmann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

232
papers

34,557
citations

80
h-index

184
g-index

240
ext. papers

36,901
ext. citations

8.1
avg, IF

7.31
L-index

#	Paper	IF	Citations
232	Diamond Electrode Facilitated Electrosynthesis of Water and Wastewater Treatment Oxidants. <i>Current Opinion in Electrochemistry</i> , 2021 , 100899	7.2	1
231	Progress and Prospect of Anodic Oxidation for the Remediation of Per- and Polyfluoroalkyl Substances in Water and Wastewater using Diamond Electrodes. <i>Current Opinion in Electrochemistry</i> , 2021 , 100865	7.2	1
230	Onsite Graywater Treatment in a Two-Stage Electro-Peroxone Reactor with a Partial Recycle of Treated Effluent.. <i>ACS ES&T Engineering</i> , 2021 , 1, 1659-1667		0
229	Removal of Antibiotic Resistant Bacteria and Genes by UV-Assisted Electrochemical Oxidation on Degenerative TiO ₂ Nanotube Arrays. <i>ACS ES&T Engineering</i> , 2021 , 1, 612-622		3
228	Development of a Mechanically Flexible 2D-MXene Membrane Cathode for Selective Electrochemical Reduction of Nitrate to N: Mechanisms and Implications. <i>Environmental Science & Technology</i> , 2021 , 55, 10695-10703	10.3	14
227	Application of Heterojunction Ni ₃ Bi ₂ SnO ₂ Anodes for Electrochemical Water Treatment. <i>ACS ES&T Engineering</i> , 2021 , 1, 1236-1245		3
226	Porous carbon monoliths for electrochemical removal of aqueous herbicides by "one-stop" catalysis of oxygen reduction and HO activation. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125592	12.8	4
225	Economically advantageous pathways for reducing greenhouse gas emissions from industrial hydrogen under common, current economic conditions. <i>Energy and Environmental Science</i> , 2021 , 14, 1517-1529 ¹²	35.4	12
224	Single-Cell Phenotypic Analysis and Digital Molecular Detection Linkable by a Hydrogel Bead-Based Platform. <i>ACS Applied Bio Materials</i> , 2021 , 4, 2664-2674	4.1	3
223	Role of Ferryl Ion Intermediates in Fast Fenton Chemistry on Aqueous Microdroplets. <i>Environmental Science & Technology</i> , 2021 , 55, 14370-14377	10.3	5
222	Carbon nitride nanotubes with in situ grafted hydroxyl groups for highly efficient spontaneous H ₂ O ₂ production. <i>Applied Catalysis B: Environmental</i> , 2021 , 288, 119993	21.8	24
221	Mixed Metal Oxide Electrodes and the Chlorine Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20745-20761	3.8	5
220	Membrane-Based In-Gel Loop-Mediated Isothermal Amplification (mgLAMP) System for SARS-CoV-2 Quantification in Environmental Waters.. <i>Environmental Science & Technology</i> , 2021 ,	10.3	4
219	In Situ-Generated Reactive Oxygen Species in Precharged Titania and Tungsten Trioxide Composite Catalyst Membrane Filters: Application to As(III) Oxidation in the Absence of Irradiation. <i>Environmental Science & Technology</i> , 2020 , 54, 9601-9608	10.3	10
218	Electrochemical cell lysis of gram-positive and gram-negative bacteria: DNA extraction from environmental water samples. <i>Electrochimica Acta</i> , 2020 , 338, 135864	6.7	7
217	Photochemical transformation of perfluoroalkyl acid precursors in water using engineered nanomaterials. <i>Water Research</i> , 2020 , 181, 115964	12.5	8
216	Electrocatalytic arsenite oxidation in bicarbonate solutions combined with CO ₂ reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118607	21.8	17

215	Proton-assisted electron transfer and hydrogen-atom diffusion in a model system for photocatalytic hydrogen production. <i>Communications Materials</i> , 2020 , 1, 66	6	10
214	Rapid Detection Methods for Bacterial Pathogens in Ambient Waters at the Point of Sample Collection: A Brief Review. <i>Clinical Infectious Diseases</i> , 2020 , 71, S84-S90	11.6	15
213	3D-Printed Flow Cells for Aptamer-Based Impedimetric Detection of Crooks Strain. <i>Sensors</i> , 2020 , 20,	3.8	11
212	Enhanced photoreductive degradation of perfluorooctanesulfonate by UV irradiation in the presence of ethylenediaminetetraacetic acid. <i>Chemical Engineering Journal</i> , 2020 , 379, 122338	14.7	13
211	Enhanced chlorine evolution from dimensionally stable anode by heterojunction with Ti and Bi based mixed metal oxide layers prepared from nanoparticle slurry. <i>Journal of Catalysis</i> , 2020 , 389, 1-8	7.3	5
210	Peroxymonosulfate (PMS) activation on cobalt-doped TiO ₂ nanotubes: degradation of organics under dark and solar light irradiation conditions. <i>Environmental Science: Nano</i> , 2020 , 7, 1602-1611	7.1	18
209	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
208	Membrane-separated electrochemical latrine wastewater treatment. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 51-59	4.2	16
207	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
206	Activation of Peroxymonosulfate by Oxygen Vacancies-Enriched Cobalt-Doped Black TiO Nanotubes for the Removal of Organic Pollutants. <i>Environmental Science & Technology</i> , 2019 , 53, 6972-6980	10.3	135
205	Multiphase Porous Electrochemical Catalysts Derived from Iron-Based Metal-Organic Framework Compounds. <i>Environmental Science & Technology</i> , 2019 , 53, 6474-6482	10.3	51
204	Iodide Accelerates the Processing of Biogenic Monoterpene Emissions on Marine Aerosols. <i>ACS Omega</i> , 2019 , 4, 7574-7580	3.9	4
203	High-Efficiency Solar Desalination Accompanying Electrocatalytic Conversions of Desalted Chloride and Captured Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15320-15328	8.3	18
202	Photoelectrochemical activity of CdS/Ag/TiO ₂ nanorod composites: Degradation of nitrobenzene coupled with the concomitant production of molecular hydrogen. <i>Electrochimica Acta</i> , 2019 , 328, 135124	6.7	11
201	Digital Loop-Mediated Isothermal Amplification on a Commercial Membrane. <i>ACS Sensors</i> , 2019 , 4, 242-249	3.9	49
200	3D Printed Microfluidic Mixers-A Comparative Study on Mixing Unit Performances. <i>Small</i> , 2019 , 15, e1804326	4.3	30
199	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
198	UV/Nitrilotriacetic Acid Process as a Novel Strategy for Efficient Photoreductive Degradation of Perfluorooctanesulfonate. <i>Environmental Science & Technology</i> , 2018 , 52, 2953-2962	10.3	43

197	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
196	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
195	Degradation of organic compounds in wastewater matrix by electrochemically generated reactive chlorine species: Kinetics and selectivity. <i>Catalysis Today</i> , 2018 , 313, 189-195	5.3	27
194	Incorporation of Quorum Sensing Inhibitors onto Reverse Osmosis Membranes for Biofouling Prevention in Seawater Desalination. <i>Environmental Engineering Science</i> , 2018 , 35, 261-269	2	13
193	Quantification of SO Oxidation on Interfacial Surfaces of Acidic Micro-Droplets: Implication for Ambient Sulfate Formation. <i>Environmental Science & Technology</i> , 2018 , 52, 9079-9086	10.3	32
192	Smartphone-Based in-Gel Loop-Mediated Isothermal Amplification (gLAMP) System Enables Rapid Coliphage MS2 Quantification in Environmental Waters. <i>Environmental Science & Technology</i> , 2018 , 52, 6399-6407	10.3	31
191	Urine microbial fuel cells in a semi-controlled environment for onsite urine pre-treatment and electricity production. <i>Journal of Power Sources</i> , 2018 , 400, 441-448	8.9	26
190	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
189	Propidium monoazide pretreatment on a 3D-printed microfluidic device for efficient PCR determination of live versus dead microbial cells. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 956-964	4.2	7
188	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
187	Asymmetric Membrane for Digital Detection of Single Bacteria in Milliliters of Complex Water Samples. <i>ACS Nano</i> , 2018 , 12, 10281-10290	16.7	26
186	Toxic Byproduct Formation during Electrochemical Treatment of Latrine Wastewater. <i>Environmental Science & Technology</i> , 2017 , 51, 7111-7119	10.3	102
185	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
184	Criegee Intermediates React with Levoglucosan on Water. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3888-3894	6.4	48
183	Molecular hydrogen production from wastewater electrolysis cell with multi-junction BiOx/TiO2 anode and stainless steel cathode: Current and energy efficiency. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 671-682	21.8	29
182	Photocatalytic H ₂ production on trititanate nanotubes coupled with CdS and platinum nanoparticles under visible light: revisiting H ₂ production and material durability. <i>Faraday Discussions</i> , 2017 , 198, 419-431	3.6	9
181	Electrochemical Transformation of Trace Organic Contaminants in Latrine Wastewater. <i>Environmental Science & Technology</i> , 2016 , 50, 10198-208	10.3	59
180	Degradation and Removal Methods for Perfluoroalkyl and Polyfluoroalkyl Substances in Water. <i>Environmental Engineering Science</i> , 2016 , 33, 615-649	2	198

179	Halogen Radical Chemistry at Aqueous Interfaces. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6242-8	2.8	7
178	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
177	Extensive H-atom abstraction from benzoate by OH-radicals at the air-water interface. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31505-31512	3.6	18
176	"Nanofiltration" Enabled by Super-Absorbent Polymer Beads for Concentrating Microorganisms in Water Samples. <i>Scientific Reports</i> , 2016 , 6, 20516	4.9	24
175	Trilayer CdS/carbon nanofiber (CNF) mat/Pt-TiO ₂ composite structures for solar hydrogen production: Effects of CNF mat thickness. <i>Applied Catalysis B: Environmental</i> , 2016 , 196, 216-222	21.8	25
174	Sunlight-Activated Propidium Monoazide Pretreatment for Differentiation of Viable and Dead Bacteria by Quantitative Real-Time Polymerase Chain Reaction. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 57-61	11	14
173	"Sizing" Heterogeneous Chemistry in the Conversion of Gaseous Dimethyl Sulfide to Atmospheric Particles. <i>Environmental Science & Technology</i> , 2016 , 50, 1834-43	10.3	18
172	Electrochemical disinfection of toilet wastewater using wastewater electrolysis cell. <i>Water Research</i> , 2016 , 92, 164-72	12.5	123
171	Facet-dependent performance of BiOBr for photocatalytic reduction of Cr(VI). <i>RSC Advances</i> , 2016 , 6, 2028-2031	3.7	35
170	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
169	Mixed-Metal Semiconductor Anodes for Electrochemical Water Splitting and Reactive Chlorine Species Generation: Implications for Electrochemical Wastewater Treatment. <i>Catalysts</i> , 2016 , 6, 59	4	11
168	Synthesis and Stabilization of Blue-Black TiO Nanotube Arrays for Electrochemical Oxidant Generation and Wastewater Treatment. <i>Environmental Science & Technology</i> , 2016 , 50, 11888-11894	10.3	133
167	Lithium batteries: Improving solid-electrolyte interphases via underpotential solvent electropolymerization. <i>Chemical Physics Letters</i> , 2016 , 661, 65-69	2.5	11
166	Thermal relaxation of lithium dendrites. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8000-5	3.6	51
165	BixTi1-xOz 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
164	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
163	OH-Radical Specific Addition to Glutathione S-Atom at the Air-Water Interface: Relevance to the Redox Balance of the Lung Epithelial Lining Fluid. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3935-43	6.4	29
162	Annealing kinetics of electrodeposited lithium dendrites. <i>Journal of Chemical Physics</i> , 2015 , 143, 134701	3.9	37

161	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
160	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
159	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
158	Dynamics of Lithium Dendrite Growth and Inhibition: Pulse Charging Experiments and Monte Carlo Calculations. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1721-6	6.4	129
157	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
156	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
155	Electrochemical treatment of human waste coupled with molecular hydrogen production. <i>RSC Advances</i> , 2014 , 4, 4596-4608	3.7	56
154	Electrochemical production of hydrogen coupled with the oxidation of arsenite. <i>Environmental Science & Technology</i> , 2014 , 48, 2059-66	10.3	31
153	Urea degradation by electrochemically generated reactive chlorine species: products and reaction pathways. <i>Environmental Science & Technology</i> , 2014 , 48, 11504-11	10.3	78
152	Lithium Dendrite Growth Control Using Local Temperature Variation. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1680, 13		3
151	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
150	Quantum chemical insights into the dissociation of nitric acid on the surface of aqueous electrolytes. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 413-417	2.1	11
149	Tropospheric aerosol as a reactive intermediate. <i>Faraday Discussions</i> , 2013 , 165, 407-20	3.6	22
148	Electrolysis of urea and urine for solar hydrogen. <i>Catalysis Today</i> , 2013 , 199, 2-7	5.3	61
147	Electroflotation clarifier to enhance nitrogen removal in a two-stage alternating aeration bioreactor. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 2765-72	2.6	5
146	Brønsted basicity of the air-water interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18679-83	11.5	135
145	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
144	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

143	Branched polymeric media: boron-chelating resins from hyperbranched polyethylenimine. <i>Environmental Science & Technology</i> , 2012 , 46, 8998-9004	10.3	35
142	Hofmeister effects in micromolar electrolyte solutions. <i>Journal of Chemical Physics</i> , 2012 , 136, 154707	3.9	42
141	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
140	Sonolytic degradation of dimethoate: kinetics, mechanisms and toxic intermediates controlling. <i>Water Research</i> , 2011 , 45, 5886-94	12.5	28
139	Kinetics of microwave-enhanced oxidation of phenol by hydrogen peroxide. <i>Frontiers of Environmental Science and Engineering in China</i> , 2011 , 5, 57-64		11
138	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
137	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
136	Weak acids enhance halogen activation on atmospheric water@ surfaces. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 4935-40	2.8	35
135	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
134	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
133	Confocal Fluorescence Microscopy of the Morphology and Composition of Interstitial Fluids in Freezing Electrolyte Solutions. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 374-378	6.4	34
132	Superacid Chemistry on Mildly Acidic Water. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3488-3493	6.4	59
131	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
130	Proton Availability at the Air/Water Interface. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1599-1604	6.4	97
129	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
128	Photoreductive dissolution of iron oxides trapped in ice and its environmental implications. <i>Environmental Science & Technology</i> , 2010 , 44, 4142-8	10.3	82
127	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
126	Sonolytic decomposition of aqueous bioxalate in the presence of ozone. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 4968-80	2.8	42

125	Sonochemical degradation of perfluorooctanesulfonate in aqueous film-forming foams. <i>Environmental Science & Technology</i> , 2010 , 44, 432-8	10.3	93
124	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
123	Photocatalytic oxidation of aqueous ammonia over platinized microwave-assisted titanate nanotubes. <i>Applied Catalysis B: Environmental</i> , 2010 , 99, 74-80	21.8	39
122	Treatment technologies for aqueous perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA). <i>Frontiers of Environmental Science and Engineering in China</i> , 2009 , 3, 129-151		282
121	Perfluorinated surfactant chain-length effects on sonochemical kinetics. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 9834-42	2.8	77
120	Absorption of inhaled NO(2). <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7977-81	3.4	26
119	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
118	How phenol and alpha-tocopherol react with ambient ozone at gas/liquid interfaces. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 7002-10	2.8	33
117	Electrochemical Water Splitting Coupled with Organic Compound Oxidation: The Role of Active Chlorine Species. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7935-7945	3.8	126
116	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
115	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
114	Solar-Powered Production of Molecular Hydrogen from Water. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 885-889	3.8	64
113	Photocatalytic production of hydrogen on Ni/NiO/KNbO ₃ /CdS nanocomposites using visible light. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2371		100
112	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
111	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
110	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
109	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
108	Heterogeneous photocatalytic degradation of ethylene glycol and propylene glycol. <i>Korean Journal of Chemical Engineering</i> , 2008 , 25, 89-94	2.8	22

107	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
106	Photocatalytic Production of H ₂ on Nanocomposite Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7476-7488	3.9	71
105	Photocatalytic Production of Hydrogen from Water with Visible Light Using Hybrid Catalysts of CdS Attached to Microporous and Mesoporous Silicas. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18195-18203	3.8	124
104	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
103	Photogeneration of distant radical pairs in aqueous pyruvic acid glasses. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 931-5	2.8	49
102	Cooperative hydration of pyruvic acid in ice. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10621-46.4	4.4	39
101	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
100	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
99	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
98	Chemical characterization of ambient aerosol collected during the northeast monsoon season over the Arabian Sea: Anions and cations. <i>Journal of Geophysical Research</i> , 2004 , 109,		18
97	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
96	Chemical characterization of ambient aerosol collected during the northeast monsoon season over the Arabian Sea: Labile-Fe(II) and other trace metals. <i>Journal of Geophysical Research</i> , 2003 , 108,		24
95	Molecular structure effects on the kinetics of hydroxyl radical addition to azo dyes. <i>Journal of Physical Organic Chemistry</i> , 2002 , 15, 287-292	2.1	18
94	The sonolytic destruction of methyl tert-butyl ether present in contaminated groundwater. <i>Water Environment Research</i> , 2002 , 74, 545-56	2.8	13
93	Electron Traps and the Stark Effect on Hydroxylated Titania Photocatalysts. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7654-7658	3.4	109
92	Slow Surface Charge Trapping Kinetics on Irradiated TiO ₂ . <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2922-2927	3.4	185
91	Isotopic fractionation of carbonyl sulfide in the atmosphere: Implications for the source of background stratospheric sulfate aerosol. <i>Geophysical Research Letters</i> , 2002 , 29, 112-1-112-4	4.9	28
90	Scale-Up of Sonochemical Reactors for Water Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 3855-3860	3.9	71

89	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
88	Applications of ultrasound in NAPL remediation: sonochemical degradation of TCE in aqueous surfactant solutions. <i>Environmental Science & Technology</i> , 2001 , 35, 2019-24	10.3	40
87	R. M. Harrison and S. J. De Mora: Introductory Chemistry for the Environmental Sciences. <i>Journal of Atmospheric Chemistry</i> , 2000 , 35, 322-324	3.2	
86	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
85	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
84	Synergistic Effects of Sonolysis Combined with Ozonolysis for the Oxidation of Azobenzene and Methyl Orange. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8930-8935	2.8	132
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