

Urs von Gunten

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257
papers

31,597
citations

89
h-index

174
g-index

263
ext. papers

35,967
ext. citations

10.3
avg, IF

7.85
L-index

#	Paper	IF	Citations
257	The challenge of micropollutants in aquatic systems. <i>Science</i> , 2006 , 313, 1072-7	33.3	2376
256	Ozonation of drinking water: part I. Oxidation kinetics and product formation. <i>Water Research</i> , 2003 , 37, 1443-67	12.5	1671
255	Oxidation of pharmaceuticals during ozonation and advanced oxidation processes. <i>Environmental Science & Technology</i> , 2003 , 37, 1016-24	10.3	1191
254	Reactions of chlorine with inorganic and organic compounds during water treatment-Kinetics and mechanisms: a critical review. <i>Water Research</i> , 2008 , 42, 13-51	12.5	1188
253	Global Water Pollution and Human Health. <i>Annual Review of Environment and Resources</i> , 2010 , 35, 109-136.2	13.2	973
252	Ozonation of drinking water: part II. Disinfection and by-product formation in presence of bromide, iodide or chlorine. <i>Water Research</i> , 2003 , 37, 1469-87	12.5	952
251	Oxidation of pharmaceuticals during ozonation of municipal wastewater effluents: a pilot study. <i>Environmental Science & Technology</i> , 2005 , 39, 4290-9	10.3	632
250	Elimination of organic micropollutants in a municipal wastewater treatment plant upgraded with a full-scale post-ozonation followed by sand filtration. <i>Environmental Science & Technology</i> , 2009 , 43, 7862-9	10.3	622
249	Persulfate-Based Advanced Oxidation: Critical Assessment of Opportunities and Roadblocks. <i>Environmental Science & Technology</i> , 2020 , 54, 3064-3081	10.3	605
248	Oxidative transformation of micropollutants during municipal wastewater treatment: comparison of kinetic aspects of selective (chlorine, chlorine dioxide, ferrate VI, and ozone) and non-selective oxidants (hydroxyl radical). <i>Water Research</i> , 2010 , 44, 555-66	12.5	519
247	Hydroxyl Radical/Ozone Ratios During Ozonation Processes. I. The Rct Concept. <i>Ozone: Science and Engineering</i> , 1999 , 21, 239-260	2.4	498
246	Bromate Formation during Ozonation of Bromide-Containing Waters: Interaction of Ozone and Hydroxyl Radical Reactions. <i>Environmental Science & Technology</i> , 1994 , 28, 1234-42	10.3	450
245	Oxidation of antibacterial molecules by aqueous ozone: moiety-specific reaction kinetics and application to ozone-based wastewater treatment. <i>Environmental Science & Technology</i> , 2006 , 40, 1969-77	10.3	359
244	Comparison of the efficiency of *OH radical formation during ozonation and the advanced oxidation processes O ₃ /H ₂ O ₂ and UV/H ₂ O ₂ . <i>Water Research</i> , 2006 , 40, 3695-704	12.5	350
243	Chlorination of natural organic matter: kinetics of chlorination and of THM formation. <i>Water Research</i> , 2002 , 36, 65-74	12.5	343
242	Photosensitizer method to determine rate constants for the reaction of carbonate radical with organic compounds. <i>Environmental Science & Technology</i> , 2005 , 39, 9182-8	10.3	333
241	Effect of dissolved organic matter on the transformation of contaminants induced by excited triplet states and the hydroxyl radical. <i>Environmental Science & Technology</i> , 2011 , 45, 1334-40	10.3	318

240	Oxidative treatment of bromide-containing waters: formation of bromine and its reactions with inorganic and organic compounds--a critical review. <i>Water Research</i> , 2014 , 48, 15-42	12.5	304
239	Chlorination of phenols: kinetics and formation of chloroform. <i>Environmental Science & Technology</i> , 2002 , 36, 884-90	10.3	291
238	Formation of Iodo-Trihalomethanes during Disinfection and Oxidation of Iodide-Containing Waters. <i>Environmental Science & Technology</i> , 2000 , 34, 2784-2791	10.3	289
237	Phototransformation of selected pharmaceuticals during UV treatment of drinking water. <i>Water Research</i> , 2008 , 42, 121-8	12.5	288
236	Degradation Kinetics of Atrazine and Its Degradation Products with Ozone and OH Radicals: A Predictive Tool for Drinking Water Treatment. <i>Environmental Science & Technology</i> , 2000 , 34, 591-597	10.3	284
235	Prediction of micropollutant elimination during ozonation of municipal wastewater effluents: use of kinetic and water specific information. <i>Environmental Science & Technology</i> , 2013 , 47, 5872-81	10.3	278
234	Solar oxidation and removal of arsenic at circumneutral pH in iron containing waters. <i>Environmental Science & Technology</i> , 2001 , 35, 2114-21	10.3	274
233	Oxidation of Iodide and Hypoiodous Acid in the Disinfection of Natural Waters. <i>Environmental Science & Technology</i> , 1999 , 33, 4040-4045	10.3	274
232	Oxidation Processes in Water Treatment: Are We on Track?. <i>Environmental Science & Technology</i> , 2018 , 52, 5062-5075	10.3	262
231	Evaluation of a full-scale wastewater treatment plant upgraded with ozonation and biological post-treatments: Abatement of micropollutants, formation of transformation products and oxidation by-products. <i>Water Research</i> , 2018 , 129, 486-498	12.5	258
230	Ferrate (Fe(VI)) application for Municipal wastewater treatment: a novel process for simultaneous micropollutant oxidation and phosphate removal. <i>Environmental Science & Technology</i> , 2009 , 43, 3831-8	10.3	254
229	Advanced Oxidation of Bromide-Containing Waters: Bromate Formation Mechanisms. <i>Environmental Science & Technology</i> , 1998 , 32, 63-70	10.3	253
228	Chemistry. The chlorine dilemma. <i>Science</i> , 2011 , 331, 42-3	33.3	251
227	Efficiency and energy requirements for the transformation of organic micropollutants by ozone, O ₃ /H ₂ O ₂ and UV/H ₂ O ₂ . <i>Water Research</i> , 2011 , 45, 3811-22	12.5	244
226	Elimination of micropollutants during post-treatment of hospital wastewater with powdered activated carbon, ozone, and UV. <i>Environmental Science & Technology</i> , 2013 , 47, 7899-908	10.3	241
225	Oxidation of pharmaceuticals during water treatment with chlorine dioxide. <i>Water Research</i> , 2005 , 39, 3607-17	12.5	235
224	Efficiency of activated carbon to transform ozone into *OH radicals: influence of operational parameters. <i>Water Research</i> , 2005 , 39, 3189-98	12.5	233
223	Quantitative structure-activity relationships (QSARs) for the transformation of organic micropollutants during oxidative water treatment. <i>Water Research</i> , 2012 , 46, 6177-95	12.5	228

222	Kinetics of the oxidation of phenols and phenolic endocrine disruptors during water treatment with ferrate (Fe(VI)). <i>Environmental Science & Technology</i> , 2005 , 39, 8978-84	10.3	226
221	Bromate minimization during ozonation: mechanistic considerations. <i>Environmental Science & Technology</i> , 2001 , 35, 2525-31	10.3	222
220	Kinetic assessment and modeling of an ozonation step for full-scale municipal wastewater treatment: micropollutant oxidation, by-product formation and disinfection. <i>Water Research</i> , 2011 , 45, 605-17	12.5	221
219	Hydroxyl Radical/Ozone Ratios During Ozonation Processes. II. The Effect of Temperature, pH, Alkalinity, and DOM Properties. <i>Ozone: Science and Engineering</i> , 2000 , 22, 123-150	2.4	219
218	Ozonation of carbamazepine in drinking water: identification and kinetic study of major oxidation products. <i>Environmental Science & Technology</i> , 2005 , 39, 8014-22	10.3	216
217	Ozonation of reverse osmosis concentrate: kinetics and efficiency of beta blocker oxidation. <i>Water Research</i> , 2008 , 42, 3003-12	12.5	215
216	Removal of estrogenic activity and formation of oxidation products during ozonation of 17alpha-ethinylestradiol. <i>Environmental Science & Technology</i> , 2004 , 38, 5177-86	10.3	213
215	Interactions of fluoroquinolone antibacterial agents with aqueous chlorine: reaction kinetics, mechanisms, and transformation pathways. <i>Environmental Science & Technology</i> , 2005 , 39, 7065-76	10.3	212
214	Oxidation of antibacterial compounds by ozone and hydroxyl radical: elimination of biological activity during aqueous ozonation processes. <i>Environmental Science & Technology</i> , 2009 , 43, 2498-504	10.3	208
213	Oxidation of N-nitrosodimethylamine (NDMA) precursors with ozone and chlorine dioxide: kinetics and effect on NDMA formation potential. <i>Environmental Science & Technology</i> , 2007 , 41, 2056-63	10.3	193
212	Oxidative degradation of N-nitrosodimethylamine by conventional ozonation and the advanced oxidation process ozone/hydrogen peroxide. <i>Water Research</i> , 2007 , 41, 581-90	12.5	187
211	Oxidative elimination of cyanotoxins: comparison of ozone, chlorine, chlorine dioxide and permanganate. <i>Water Research</i> , 2007 , 41, 3381-93	12.5	184
210	Chemical oxidation of dissolved organic matter by chlorine dioxide, chlorine, and ozone: effects on its optical and antioxidant properties. <i>Environmental Science & Technology</i> , 2013 , 47, 11147-56	10.3	179
209	Reaction of bromine and chlorine with phenolic compounds and natural organic matter extracts--Electrophilic aromatic substitution and oxidation. <i>Water Research</i> , 2015 , 85, 476-86	12.5	173
208	Mechanistic and kinetic evaluation of organic disinfection by-product and assimilable organic carbon (AOC) formation during the ozonation of drinking water. <i>Water Research</i> , 2006 , 40, 2275-86	12.5	171
207	Measurement of the initial phase of ozone decomposition in water and wastewater by means of a continuous quench-flow system: application to disinfection and pharmaceutical oxidation. <i>Water Research</i> , 2006 , 40, 1884-94	12.5	167
206	Reaction of ferrate(VI) with ABTS and self-decay of ferrate(VI): kinetics and mechanisms. <i>Environmental Science & Technology</i> , 2014 , 48, 5154-62	10.3	163
205	Chemistry of Ozone in Water and Wastewater Treatment: From Basic Principles to Applications 2012 ,		162

204	Prediction of micropollutant elimination during ozonation of a hospital wastewater effluent. <i>Water Research</i> , 2014 , 64, 134-148	12.5	158
203	Characterization of natural organic matter adsorption in granular activated carbon adsorbers. <i>Water Research</i> , 2011 , 45, 3951-9	12.5	158
202	Ozonation and Advanced Oxidation of Wastewater: Effect of O ₃ Dose, pH, DOM and HO ₂ scavengers on Ozone Decomposition and HO ₂ Generation. <i>Ozone: Science and Engineering</i> , 2006 , 28, 247-259	2.4	155
201	Spectrophotometric determination of ferrate (Fe(VI)) in water by ABTS. <i>Water Research</i> , 2005 , 39, 1946-53	12.5	152
200	Development of surrogate correlation models to predict trace organic contaminant oxidation and microbial inactivation during ozonation. <i>Water Research</i> , 2012 , 46, 6257-72	12.5	147
199	Determination of Iodide and Iodate by Ion Chromatography with Postcolumn Reaction and UV/Visible Detection. <i>Analytical Chemistry</i> , 1999 , 71, 34-8	7.8	144
198	Phenols and amine induced HO* generation during the initial phase of natural water ozonation. <i>Environmental Science & Technology</i> , 2006 , 40, 3057-63	10.3	142
197	Methods for the photometric determination of reactive bromine and chlorine species with ABTS. <i>Water Research</i> , 2000 , 34, 4343-4350	12.5	142
196	Evaluation of the persistence of transformation products from ozonation of trace organic compounds - a critical review. <i>Water Research</i> , 2015 , 68, 150-70	12.5	133
195	Kinetics of membrane damage to high (HNA) and low (LNA) nucleic acid bacterial clusters in drinking water by ozone, chlorine, chlorine dioxide, monochloramine, ferrate(VI), and permanganate. <i>Water Research</i> , 2011 , 45, 1490-500	12.5	133
194	Oxidation kinetics of selected taste and odor compounds during ozonation of drinking water. <i>Environmental Science & Technology</i> , 2007 , 41, 626-31	10.3	132
193	Selective oxidation of key functional groups in cyanotoxins during drinking water ozonation. <i>Environmental Science & Technology</i> , 2007 , 41, 4397-404	10.3	131
192	Kinetics and mechanisms of formation of bromophenols during drinking water chlorination: assessment of taste and odor development. <i>Water Research</i> , 2005 , 39, 2979-93	12.5	131
191	MTBE oxidation by conventional ozonation and the combination ozone/hydrogen peroxide: efficiency of the processes and bromate formation. <i>Environmental Science & Technology</i> , 2001 , 35, 4252-9	10.3	131
190	Trade-offs in disinfection byproduct formation associated with precursor preoxidation for control of N-nitrosodimethylamine formation. <i>Environmental Science & Technology</i> , 2012 , 46, 4809-18	10.3	130
189	Kinetics and mechanistic aspects of As(III) oxidation by aqueous chlorine, chloramines, and ozone: relevance to drinking water treatment. <i>Environmental Science & Technology</i> , 2006 , 40, 3285-92	10.3	127
188	Inactivation of Antibiotic Resistant Bacteria and Resistance Genes by Ozone: From Laboratory Experiments to Full-Scale Wastewater Treatment. <i>Environmental Science & Technology</i> , 2016 , 50, 11862-11871	10.3	123
187	Kinetics and mechanisms of N-nitrosodimethylamine formation upon ozonation of N,N-dimethylsulfamide-containing waters: bromide catalysis. <i>Environmental Science & Technology</i> , 2010 , 44, 5762-8	10.3	123

186	Efficient removal of estrogenic activity during oxidative treatment of waters containing steroid estrogens. <i>Environmental Science & Technology</i> , 2008 , 42, 6333-9	10.3	119
185	Enhanced bromate control during ozonation: the chlorine-ammonia process. <i>Environmental Science & Technology</i> , 2004 , 38, 5187-95	10.3	112
184	Kinetics of triclosan oxidation by aqueous ozone and consequent loss of antibacterial activity: relevance to municipal wastewater ozonation. <i>Water Research</i> , 2007 , 41, 2481-90	12.5	111
183	Kinetic and mechanistic investigations of the oxidation of tramadol by ferrate and ozone. <i>Environmental Science & Technology</i> , 2012 , 46, 876-84	10.3	109
182	Adsorption as a cause for iron isotope fractionation in reduced groundwater. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 4175-4185	5.5	105
181	Implications of sequential use of UV and ozone for drinking water quality. <i>Water Research</i> , 2006 , 40, 1864-76	12.5	105
180	Characterization of Oxidation processes: ozonation and the AOP O ₃ /H ₂ O ₂ . <i>Journal - American Water Works Association</i> , 2001 , 93, 90-100	0.5	105
179	Biogeochemical changes in groundwater-infiltration systems: Column studies. <i>Geochimica Et Cosmochimica Acta</i> , 1993 , 57, 3895-3906	5.5	105
178	Advances in predicting organic contaminant abatement during ozonation of municipal wastewater effluent: reaction kinetics, transformation products, and changes of biological effects. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 421-442	4.2	103
177	Fingerprinting the reactive toxicity pathways of 50 drinking water disinfection by-products. <i>Water Research</i> , 2016 , 91, 19-30	12.5	102
176	Organic Contaminant Abatement in Reclaimed Water by UV/H ₂ O ₂ and a Combined Process Consisting of O ₃ /H ₂ O ₂ Followed by UV/H ₂ O ₂ : Prediction of Abatement Efficiency, Energy Consumption, and Byproduct Formation. <i>Environmental Science & Technology</i> , 2016 , 50, 3809-19	10.3	102
175	Kinetics of the reaction between hydrogen peroxide and hypobromous acid: Implication on water treatment and natural systems. <i>Water Research</i> , 1997 , 31, 900-906	12.5	101
174	Effect of operational and water quality parameters on conventional ozonation and the advanced oxidation process O/HO: Kinetics of micropollutant abatement, transformation product and bromate formation in a surface water. <i>Water Research</i> , 2017 , 122, 234-245	12.5	100
173	Mechanistic Study on the Formation of Cl-/Br-/I-Trihalomethanes during Chlorination/Chloramination Combined with a Theoretical Cytotoxicity Evaluation. <i>Environmental Science & Technology</i> , 2015 , 49, 11105-14	10.3	100
172	Iodate and iodo-trihalomethane formation during chlorination of iodide-containing waters: role of bromide. <i>Environmental Science & Technology</i> , 2012 , 46, 7350-7	10.3	100
171	Formation of assimilable organic carbon during oxidation of natural waters with ozone, chlorine dioxide, chlorine, permanganate, and ferrate. <i>Water Research</i> , 2011 , 45, 2002-10	12.5	96
170	Sunlight-induced transformation of sulfadiazine and sulfamethoxazole in surface waters and wastewater effluents. <i>Water Research</i> , 2014 , 57, 183-92	12.5	94
169	Emerging risks from ballast water treatment: the run-up to the International Ballast Water Management Convention. <i>Chemosphere</i> , 2014 , 112, 256-66	8.4	93

168	How do you like your tap water?. <i>Science</i> , 2016 , 351, 912-4	33.3	88
167	Bromide Sources and Loads in Swiss Surface Waters and Their Relevance for Bromate Formation during Wastewater Ozonation. <i>Environmental Science & Technology</i> , 2016 , 50, 9825-34	10.3	88
166	Differences in the chlorine reactivity of four microcystin analogues. <i>Water Research</i> , 2006 , 40, 1200-9	12.5	86
165	Influence of Carbonate on the Ozone/Hydrogen Peroxide Based Advanced Oxidation Process for Drinking Water Treatment. <i>Ozone: Science and Engineering</i> , 2000 , 22, 305-328	2.4	86
164	Formation of assimilable organic carbon (AOC) and specific natural organic matter (NOM) fractions during ozonation of phytoplankton. <i>Water Research</i> , 2007 , 41, 1447-54	12.5	85
163	Transformation of beta-lactam antibacterial agents during aqueous ozonation: reaction pathways and quantitative bioassay of biologically-active oxidation products. <i>Environmental Science & Technology</i> , 2010 , 44, 5940-8	10.3	84
162	Degradation rates of benzotriazoles and benzothiazoles under UV-C irradiation and the advanced oxidation process UV/H ₂ O ₂ . <i>Water Research</i> , 2015 , 74, 143-54	12.5	82
161	Mechanisms of Phenol Ozonation Kinetics of Formation of Primary and Secondary Reaction Products. <i>Ozone: Science and Engineering</i> , 2009 , 31, 201-215	2.4	82
160	Oxidation of suspected N-nitrosodimethylamine (NDMA) precursors by ferrate (VI): kinetics and effect on the NDMA formation potential of natural waters. <i>Water Research</i> , 2008 , 42, 433-41	12.5	82
159	Ozonation of iodide-containing waters: selective oxidation of iodide to iodate with simultaneous minimization of bromate and I-THMs. <i>Water Research</i> , 2013 , 47, 1953-60	12.5	81
158	Occurrence of dissolved and particle-bound taste and odor compounds in Swiss lake waters. <i>Water Research</i> , 2009 , 43, 2191-200	12.5	81
157	Formation and reactivity of inorganic and organic chloramines and bromamines during oxidative water treatment. <i>Water Research</i> , 2017 , 110, 91-101	12.5	78
156	Enhanced N-nitrosamine formation in pool water by UV irradiation of chlorinated secondary amines in the presence of monochloramine. <i>Water Research</i> , 2013 , 47, 79-90	12.5	77
155	Simultaneous determination of bromide, bromate and nitrite in low µM levels by ion chromatography without sample pretreatment. <i>Water Research</i> , 1999 , 33, 3239-3244	12.5	75
154	Options and limitations for bromate control during ozonation of wastewater. <i>Water Research</i> , 2017 , 116, 76-85	12.5	72
153	Combination of UV absorbance and electron donating capacity to assess degradation of micropollutants and formation of bromate during ozonation of wastewater effluents. <i>Water Research</i> , 2015 , 81, 388-97	12.5	72
152	Novel test procedure to evaluate the treatability of wastewater with ozone. <i>Water Research</i> , 2015 , 75, 324-35	12.5	72
151	Iron isotope fractionation and atom exchange during sorption of ferrous iron to mineral surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 1795-1812	5.5	72

150	Oxidation of iodide and iodine on birnessite (δ -MnO ₂) in the pH range 4-8. <i>Water Research</i> , 2009 , 43, 3417-26	12.5	71
149	Reductive Dissolution of Fe(III) (Hydr)oxides by Cysteine: Kinetics and Mechanism. <i>Journal of Colloid and Interface Science</i> , 1997 , 194, 194-206	9.3	71
148	Formation of iodinated organic compounds by oxidation of iodide-containing waters with manganese dioxide. <i>Environmental Science & Technology</i> , 2009 , 43, 7003-9	10.3	70
147	Bromate formation in advanced oxidation processes. <i>Journal - American Water Works Association</i> , 1996 , 88, 53-65	0.5	70
146	Permeability of low molecular weight organics through nanofiltration membranes. <i>Water Research</i> , 2007 , 41, 3968-76	12.5	69
145	Comparison of methylisoborneol and geosmin abatement in surface water by conventional ozonation and an electro-peroxone process. <i>Water Research</i> , 2017 , 108, 373-382	12.5	66
144	A Tale of Two Treatments: The Multiple Barrier Approach to Removing Chemical Contaminants During Potable Water Reuse. <i>Accounts of Chemical Research</i> , 2019 , 52, 615-622	24.3	64
143	Formation of N-nitrosamines from chlorination and chloramination of molecular weight fractions of natural organic matter. <i>Water Research</i> , 2013 , 47, 535-46	12.5	63
142	DNA degradation by the mixture of copper and catechol is caused by DNA-copper-hydroperoxo complexes, probably DNA-Cu(I)OOH. <i>Environmental and Molecular Mutagenesis</i> , 2000 , 36, 5-12	3.2	62
141	Hypoiodous acid: kinetics of the buffer-catalyzed disproportionation. <i>Water Research</i> , 2000 , 34, 3197-3203	3.5	62
140	Development of Prediction Models for the Reactivity of Organic Compounds with Ozone in Aqueous Solution by Quantum Chemical Calculations: The Role of Delocalized and Localized Molecular Orbitals. <i>Environmental Science & Technology</i> , 2015 , 49, 9925-35	10.3	60
139	Trihalomethane formation by chlorination of ammonium- and bromide-containing groundwater in water supplies of Hanoi, Vietnam. <i>Water Research</i> , 2003 , 37, 3242-52	12.5	60
138	By-products formation during drinking water disinfection: a tool to assess disinfection efficiency?. <i>Water Research</i> , 2001 , 35, 2095-9	12.5	60
137	Photosensitizing and Inhibitory Effects of Ozonated Dissolved Organic Matter on Triplet-Induced Contaminant Transformation. <i>Environmental Science & Technology</i> , 2015 , 49, 8541-9	10.3	59
136	Oxidation of cetirizine, fexofenadine and hydrochlorothiazide during ozonation: Kinetics and formation of transformation products. <i>Water Research</i> , 2016 , 94, 350-362	12.5	59
135	Sulfamethoxazole and isoproterenol degradation and detoxification by a laccase-mediator system: Influence of treatment conditions and mechanistic aspects. <i>Biochemical Engineering Journal</i> , 2015 , 103, 47-59	4.2	58
134	Ozonation of Para-Substituted Phenolic Compounds Yields p-Benzoquinones, Other Cyclic Unsaturated Ketones, and Substituted Catechols. <i>Environmental Science & Technology</i> , 2018 , 52, 4763-4773	10.3	58
133	Enhanced bromate formation during chlorination of bromide-containing waters in the presence of CuO: catalytic disproportionation of hypobromous acid. <i>Environmental Science & Technology</i> , 2012 , 46, 11054-61	10.3	58

132	Inactivation of <i>Bacillus subtilis</i> spores and formation of bromate during ozonation. <i>Water Research</i> , 2001 , 35, 2950-60	12.5	58
131	Non-target screening to trace ozonation transformation products in a wastewater treatment train including different post-treatments. <i>Water Research</i> , 2018 , 142, 267-278	12.5	58
130	Removal of bromide and iodide anions from drinking water by silver-activated carbon aerogels. <i>Journal of Colloid and Interface Science</i> , 2006 , 300, 437-41	9.3	57
129	Ag-doped carbon aerogels for removing halide ions in water treatment. <i>Water Research</i> , 2007 , 41, 1031-7	12.5	55
128	Transformation of 17 α -ethinylestradiol during water chlorination: effects of bromide on kinetics, products, and transformation pathways. <i>Environmental Science & Technology</i> , 2009 , 43, 480-7	10.3	54
127	Metal-doped carbon aerogels as catalysts during ozonation processes in aqueous solutions. <i>Water Research</i> , 2006 , 40, 3375-84	12.5	52
126	Mechanistic Aspects of the Formation of Adsorbable Organic Bromine during Chlorination of Bromide-containing Synthetic Waters. <i>Environmental Science & Technology</i> , 2017 , 51, 5146-5155	10.3	51
125	Kinetics of Inactivation of Waterborne Enteric Viruses by Ozone. <i>Environmental Science & Technology</i> , 2018 , 52, 2170-2177	10.3	51
124	Evaluation of functional groups responsible for chloroform formation during water chlorination using compound specific isotope analysis. <i>Environmental Science & Technology</i> , 2008 , 42, 7778-85	10.3	51
123	Primary products of the oxygenation of iron(II) at an oxidizing boundary: Nucleation, aggregation, and aging. <i>Journal of Colloid and Interface Science</i> , 1991 , 145, 127-139	9.3	51
122	Reactions of Ferrate(VI) with Iodide and Hypoiodous Acid: Kinetics, Pathways, and Implications for the Fate of Iodine during Water Treatment. <i>Environmental Science & Technology</i> , 2018 , 52, 7458-7467	10.3	51
121	Ozonation of source-separated urine for resource recovery and waste minimization: process modeling, reaction chemistry, and operational considerations. <i>Environmental Science & Technology</i> , 2008 , 42, 9329-37	10.3	50
120	Inactivation efficiency of <i>Escherichia coli</i> and autochthonous bacteria during ozonation of municipal wastewater effluents quantified with flow cytometry and adenosine tri-phosphate analyses. <i>Water Research</i> , 2016 , 101, 617-627	12.5	49
119	Peracetic acid oxidation of saline waters in the absence and presence of H ₂ O ₂ secondary oxidant and disinfection byproduct formation. <i>Environmental Science & Technology</i> , 2015 , 49, 1698-705	10.3	49
118	Formation of disinfection by-products during ballast water treatment with ozone, chlorine, and peracetic acid: influence of water quality parameters. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 465-480	4.2	47
117	Kinetics and mechanisms of nitrate and ammonium formation during ozonation of dissolved organic nitrogen. <i>Water Research</i> , 2017 , 108, 451-461	12.5	46
116	Combination of Ozone with Activated Carbon as an Alternative to Conventional Advanced Oxidation Processes. <i>Ozone: Science and Engineering</i> , 2006 , 28, 237-245	2.4	46
115	Formation of N-Nitrosodimethylamine during Chloramination of Secondary and Tertiary Amines: Role of Molecular Oxygen and Radical Intermediates. <i>Environmental Science & Technology</i> , 2017 , 51, 280-290	10.3	45

114	Ozone and chlorine reactions with dissolved organic matter - Assessment of oxidant-reactive moieties by optical measurements and the electron donating capacities. <i>Water Research</i> , 2018 , 144, 64-75	12.5	43
113	Oxidation of manganese(II) during chlorination: role of bromide. <i>Environmental Science & Technology</i> , 2013 , 47, 8716-23	10.3	42
112	Sample Enrichment for Bioanalytical Assessment of Disinfected Drinking Water: Concentrating the Polar, the Volatiles, and the Unknowns. <i>Environmental Science & Technology</i> , 2016 , 50, 6495-505	10.3	42
111	Reactions of aliphatic amines with ozone: Kinetics and mechanisms. <i>Water Research</i> , 2019 , 157, 514-528	12.5	41
110	Photolysis of inorganic chloramines and efficiency of trichloramine abatement by UV treatment of swimming pool water. <i>Water Research</i> , 2014 , 56, 280-91	12.5	41
109	Molecular mechanism of NDMA formation from N,N-dimethylsulfamide during ozonation: quantum chemical insights into a bromide-catalyzed pathway. <i>Environmental Science & Technology</i> , 2015 , 49, 4163-75	10.3	40
108	Evolution of algal toxicity during (photo)oxidative degradation of diuron. <i>Aquatic Toxicology</i> , 2011 , 101, 466-73	5.1	39
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