

# Urs von Gunten

## List of Publications by Year in descending order

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260  
papers

40,942  
citations

2322

98  
h-index

2509

196  
g-index

263  
all docs

263  
docs citations

263  
times ranked

21397  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Challenge of Micropollutants in Aquatic Systems. <i>Science</i> , 2006, 313, 1072-1077.	12.6	2,873
2	Ozonation of drinking water: Part I. Oxidation kinetics and product formation. <i>Water Research</i> , 2003, 37, 1443-1467.	11.3	1,960
3	Persulfate-Based Advanced Oxidation: Critical Assessment of Opportunities and Roadblocks. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3064-3081.	10.0	1,779
4	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.	11.3	1,557
5	Global Water Pollution and Human Health. <i>Annual Review of Environment and Resources</i> , 2010, 35, 109-136.	13.4	1,381
6	Oxidation of Pharmaceuticals during Ozonation and Advanced Oxidation Processes. <i>Environmental Science &amp; Technology</i> , 2003, 37, 1016-1024.	10.0	1,370
7	Ozonation of drinking water: Part II. Disinfection and by-product formation in presence of bromide, iodide or chlorine. <i>Water Research</i> , 2003, 37, 1469-1487.	11.3	1,122
8	Elimination of Organic Micropollutants in a Municipal Wastewater Treatment Plant Upgraded with a Full-Scale Post-Ozonation Followed by Sand Filtration. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7862-7869.	10.0	726
9	Oxidation of Pharmaceuticals during Ozonation of Municipal Wastewater Effluents: A Pilot Study. <i>Environmental Science &amp; Technology</i> , 2005, 39, 4290-4299.	10.0	713
10	Oxidative transformation of micropollutants during municipal wastewater treatment: Comparison of kinetic aspects of selective (chlorine, chlorine dioxide, ferrateVI, and ozone) and non-selective oxidants (hydroxyl radical). <i>Water Research</i> , 2010, 44, 555-566.	11.3	632
11	Hydroxyl Radical/Ozone Ratios During Ozonation Processes. I. The Reaction Concept. <i>Ozone: Science and Engineering</i> , 1999, 21, 239-260.	2.5	610
12	Bromate Formation during Ozonation of Bromide-Containing Waters: Interaction of Ozone and Hydroxyl Radical Reactions. <i>Environmental Science &amp; Technology</i> , 1994, 28, 1234-1242.	10.0	508
13	Oxidation Processes in Water Treatment: Are We on Track?. <i>Environmental Science &amp; Technology</i> , 2018, 52, 5062-5075.	10.0	452
14	Oxidation of Antibacterial Molecules by Aqueous Ozone: Molybdenum-Specific Reaction Kinetics and Application to Ozone-Based Wastewater Treatment. <i>Environmental Science &amp; Technology</i> , 2006, 40, 1969-1977.	10.0	416
15	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.	11.3	412
16	Photosensitizer Method to Determine Rate Constants for the Reaction of Carbonate Radical with Organic Compounds. <i>Environmental Science &amp; Technology</i> , 2005, 39, 9182-9188.	10.0	407
17	Comparison of the efficiency of OH radical formation during ozonation and the advanced oxidation processes O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and UV/H <sub>2</sub> O <sub>2</sub> . <i>Water Research</i> , 2006, 40, 3695-3704.	11.3	407
18	Chlorination of natural organic matter: kinetics of chlorination and of THM formation. <i>Water Research</i> , 2002, 36, 65-74.	11.3	402

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19	Effect of Dissolved Organic Matter on the Transformation of Contaminants Induced by Excited Triplet States and the Hydroxyl Radical. <i>Environmental Science &amp; Technology</i> , 2011, 45, 1334-1340.	10.0	388
20	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.	11.3	361
21	Prediction of Micropollutant Elimination during Ozonation of Municipal Wastewater Effluents: Use of Kinetic and Water Specific Information. <i>Environmental Science &amp; Technology</i> , 2013, 47, 5872-5881.	10.0	355
22	Degradation Kinetics of Atrazine and Its Degradation Products with Ozone and OH Radicals: A Predictive Tool for Drinking Water Treatment. <i>Environmental Science &amp; Technology</i> , 2000, 34, 591-597.	10.0	350
23	Chlorination of Phenols: Kinetics and Formation of Chloroform. <i>Environmental Science &amp; Technology</i> , 2002, 36, 884-890.	10.0	343
24	The Chlorine Dilemma. <i>Science</i> , 2011, 331, 42-43.	12.6	338
25	Phototransformation of selected pharmaceuticals during UV treatment of drinking water. <i>Water Research</i> , 2008, 42, 121-128.	11.3	335
26	Formation of Iodo-Trihalomethanes during Disinfection and Oxidation of Iodide-Containing Waters. <i>Environmental Science &amp; Technology</i> , 2000, 34, 2784-2791.	10.0	333
27	Oxidation of Iodide and Hypoiodous Acid in the Disinfection of Natural Waters. <i>Environmental Science &amp; Technology</i> , 1999, 33, 4040-4045.	10.0	327
28	Advanced Oxidation of Bromide-Containing Waters: Bromate Formation Mechanisms. <i>Environmental Science &amp; Technology</i> , 1998, 32, 63-70.	10.0	309
29	Elimination of Micropollutants during Post-Treatment of Hospital Wastewater with Powdered Activated Carbon, Ozone, and UV. <i>Environmental Science &amp; Technology</i> , 2013, 47, 7899-7908.	10.0	309
30	Quantitative structure-activity relationships (QSARs) for the transformation of organic micropollutants during oxidative water treatment. <i>Water Research</i> , 2012, 46, 6177-6195.	11.3	305
31	Solar Oxidation and Removal of Arsenic at Circumneutral pH in Iron Containing Waters. <i>Environmental Science &amp; Technology</i> , 2001, 35, 2114-2121.	10.0	304
32	Ferrate (Fe(VI)) Application for Municipal Wastewater Treatment: A Novel Process for Simultaneous Micropollutant Oxidation and Phosphate Removal. <i>Environmental Science &amp; Technology</i> , 2009, 43, 3831-3838.	10.0	296
33	Efficiency and energy requirements for the transformation of organic micropollutants by ozone, O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and UV/H <sub>2</sub> O <sub>2</sub> . <i>Water Research</i> , 2011, 45, 3811-3822.	11.3	288
34	Oxidation of pharmaceuticals during water treatment with chlorine dioxide. <i>Water Research</i> , 2005, 39, 3607-3617.	11.3	280
35	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.	2.5	269
36	Kinetics of the Oxidation of Phenols and Phenolic Endocrine Disruptors during Water Treatment with Ferrate (Fe(VI)). <i>Environmental Science &amp; Technology</i> , 2005, 39, 8978-8984.	10.0	265

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37	Efficiency of activated carbon to transform ozone into OH radicals: Influence of operational parameters. <i>Water Research</i> , 2005, 39, 3189-3198.	11.3	265
38	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, 605-617.	11.3	261
39	Ozonation of Carbamazepine in Drinking Water: Identification and Kinetic Study of Major Oxidation Products. <i>Environmental Science &amp; Technology</i> , 2005, 39, 8014-8022.	10.0	259
40	Bromate Minimization during Ozonation: Mechanistic Considerations. <i>Environmental Science &amp; Technology</i> , 2001, 35, 2525-2531.	10.0	253
41	Reaction of Ferrate(VI) with ABTS and Self-Decay of Ferrate(VI): Kinetics and Mechanisms. <i>Environmental Science &amp; Technology</i> , 2014, 48, 5154-5162.	10.0	248
42	Ozonation of reverse osmosis concentrate: Kinetics and efficiency of beta blocker oxidation. <i>Water Research</i> , 2008, 42, 3003-3012.	11.3	244
43	Chemical Oxidation of Dissolved Organic Matter by Chlorine Dioxide, Chlorine, And Ozone: Effects on Its Optical and Antioxidant Properties. <i>Environmental Science &amp; Technology</i> , 2013, 47, 11147-11156.	10.0	244
44	Chemistry of Ozone in Water and Wastewater Treatment: From Basic Principles to Applications. , 2012, , ,		236
45	Removal of Estrogenic Activity and Formation of Oxidation Products during Ozonation of 17 $\beta$ -Ethinylestradiol. <i>Environmental Science &amp; Technology</i> , 2004, 38, 5177-5186.	10.0	235
46	Interactions of Fluoroquinolone Antibacterial Agents with Aqueous Chlorine: Reaction Kinetics, Mechanisms, and Transformation Pathways. <i>Environmental Science &amp; Technology</i> , 2005, 39, 7065-7076.	10.0	235
47	Reaction of bromine and chlorine with phenolic compounds and natural organic matter extracts "Electrophilic aromatic substitution and oxidation. <i>Water Research</i> , 2015, 85, 476-486.	11.3	235
48	Oxidation of Antibacterial Compounds by Ozone and Hydroxyl Radical: Elimination of Biological Activity during Aqueous Ozonation Processes. <i>Environmental Science &amp; Technology</i> , 2009, 43, 2498-2504.	10.0	233
49	Oxidation of N-Nitrosodimethylamine (NDMA) Precursors with Ozone and Chlorine Dioxide: Kinetics and Effect on NDMA Formation Potential. <i>Environmental Science &amp; Technology</i> , 2007, 41, 2056-2063.	10.0	223
50	Oxidative elimination of cyanotoxins: Comparison of ozone, chlorine, chlorine dioxide and permanganate. <i>Water Research</i> , 2007, 41, 3381-3393.	11.3	222
51	Oxidative degradation of N-nitrosodimethylamine by conventional ozonation and the advanced oxidation process ozone/hydrogen peroxide. <i>Water Research</i> , 2007, 41, 581-590.	11.3	216
52	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, 2275-2286.	11.3	214
53	Spectrophotometric determination of ferrate (Fe(VI)) in water by ABTS. <i>Water Research</i> , 2005, 39, 1946-1953.	11.3	211
54	Ozonation and Advanced Oxidation of Wastewater: Effect of O <sub>3</sub> Dose, pH, DOM and HO $\cdot$ -Scavengers on Ozone Decomposition and HO $\cdot$ Generation. <i>Ozone: Science and Engineering</i> , 2006, 28, 247-259.	2.5	199

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55	Prediction of micropollutant elimination during ozonation of a hospital wastewater effluent. <i>Water Research</i> , 2014, 48, 134-148.	11.3	198
56	Ozonation of organic compounds in water and wastewater: A critical review. <i>Water Research</i> , 2022, 213, 118053.	11.3	193
57	Characterization of natural organic matter adsorption in granular activated carbon adsorbers. <i>Water Research</i> , 2011, 45, 3951-3959.	11.3	191
58	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, 1884-1894.	11.3	186
59	Phenols and Amine Induced HO• Generation During the Initial Phase of Natural Water Ozonation. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3057-3063.	10.0	177
60	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, 1490-1500.	11.3	175
61	Development of surrogate correlation models to predict trace organic contaminant oxidation and microbial inactivation during ozonation. <i>Water Research</i> , 2012, 46, 6257-6272.	11.3	175
62	Inactivation of Antibiotic Resistant Bacteria and Resistance Genes by Ozone: From Laboratory Experiments to Full-Scale Wastewater Treatment. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11862-11871.	10.0	175
63	Evaluation of the persistence of transformation products from ozonation of trace organic compounds – A critical review. <i>Water Research</i> , 2015, 68, 150-170.	11.3	174
64	Methods for the photometric determination of reactive bromine and chlorine species with ABTS. <i>Water Research</i> , 2000, 34, 4343-4350.	11.3	173
65	Kinetics and mechanisms of formation of bromophenols during drinking water chlorination: Assessment of taste and odor development. <i>Water Research</i> , 2005, 39, 2979-2993.	11.3	170
66	Determination of Iodide and Iodate by Ion Chromatography with Postcolumn Reaction and UV/Visible Detection. <i>Analytical Chemistry</i> , 1999, 71, 34-38.	6.5	167
67	Oxidation Kinetics of Selected Taste and Odor Compounds During Ozonation of Drinking Water. <i>Environmental Science &amp; Technology</i> , 2007, 41, 626-631.	10.0	163
68	Kinetics and Mechanistic Aspects of As(III) Oxidation by Aqueous Chlorine, Chloramines, and Ozone: Relevance to Drinking Water Treatment. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3285-3292.	10.0	155
69	MTBE Oxidation by Conventional Ozonation and the Combination Ozone/Hydrogen Peroxide: Efficiency of the Processes and Bromate Formation. <i>Environmental Science &amp; Technology</i> , 2001, 35, 4252-4259.	10.0	153
70	Selective Oxidation of Key Functional Groups in Cyanotoxins during Drinking Water Ozonation. <i>Environmental Science &amp; Technology</i> , 2007, 41, 4397-4404.	10.0	152
71	Trade-Offs in Disinfection Byproduct Formation Associated with Precursor Preoxidation for Control of N-Nitrosodimethylamine Formation. <i>Environmental Science &amp; Technology</i> , 2012, 46, 4809-4818.	10.0	152
72	Kinetics and Mechanisms of N-Nitrosodimethylamine Formation upon Ozonation of N-Dimethylsulfamide-Containing Waters: Bromide Catalysis. <i>Environmental Science &amp; Technology</i> , 2010, 44, 5762-5768.	10.0	147

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73	Organic Contaminant Abatement in Reclaimed Water by UV/H <sub>2</sub> O <sub>2</sub> and a Combined Process Consisting of O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> Followed by UV/H <sub>2</sub> O <sub>2</sub> : Prediction of Abatement Efficiency, Energy Consumption, and Byproduct Formation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3809-3819.	10.0	146
74	Fingerprinting the reactive toxicity pathways of 50 drinking water disinfection by-products. <i>Water Research</i> , 2016, 91, 19-30.	11.3	144
75	Efficient Removal of Estrogenic Activity during Oxidative Treatment of Waters Containing Steroid Estrogens. <i>Environmental Science &amp; Technology</i> , 2008, 42, 6333-6339.	10.0	136
76	Characterization of Oxidation processes: ozonation and the AOP O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> . <i>Journal - American Water Works Association</i> , 2001, 93, 90-100.	0.3	133
77	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.	11.3	132
78	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.	2.4	131
79	Kinetic and Mechanistic Investigations of the Oxidation of Tramadol by Ferrate and Ozone. <i>Environmental Science &amp; Technology</i> , 2012, 46, 876-884.	10.0	129
80	Effect of operational and water quality parameters on conventional ozonation and the advanced oxidation process O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> : Kinetics of micropollutant abatement, transformation product and bromate formation in a surface water. <i>Water Research</i> , 2017, 122, 234-245.	11.3	129
81	Bromide Sources and Loads in Swiss Surface Waters and Their Relevance for Bromate Formation during Wastewater Ozonation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9825-9834.	10.0	127
82	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.	2.5	124
83	Enhanced Bromate Control during Ozonation: The Chlorine-Ammonia Process. <i>Environmental Science &amp; Technology</i> , 2004, 38, 5187-5195.	10.0	124
84	Kinetics of triclosan oxidation by aqueous ozone and consequent loss of antibacterial activity: Relevance to municipal wastewater ozonation. <i>Water Research</i> , 2007, 41, 2481-2490.	11.3	124
85	Implications of sequential use of UV and ozone for drinking water quality. <i>Water Research</i> , 2006, 40, 1864-1876.	11.3	123
86	Sunlight-induced transformation of sulfadiazine and sulfamethoxazole in surface waters and wastewater effluents. <i>Water Research</i> , 2014, 57, 183-192.	11.3	121
87	Mechanistic Study on the Formation of Cl-/Br-/I-Trihalomethanes during Chlorination/Chloramination Combined with a Theoretical Cytotoxicity Evaluation. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11105-11114.	10.0	119
88	Adsorption as a cause for iron isotope fractionation in reduced groundwater. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4175-4185.	3.9	118
89	Iodate and Iodo-Trihalomethane Formation during Chlorination of Iodide-Containing Waters: Role of Bromide. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7350-7357.	10.0	117
90	How do you like your tap water?. <i>Science</i> , 2016, 351, 912-914.	12.6	115

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91	Formation of assimilable organic carbon during oxidation of natural waters with ozone, chlorine dioxide, chlorine, permanganate, and ferrate. <i>Water Research</i> , 2011, 45, 2002-2010.	11.3	113
92	Formation and reactivity of inorganic and organic chloramines and bromamines during oxidative water treatment. <i>Water Research</i> , 2017, 110, 91-101.	11.3	113
93	Biogeochemical changes in groundwater-infiltration systems: Column studies. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 3895-3906.	3.9	112
94	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.	15.6	112
95	Emerging risks from ballast water treatment: The run-up to the International Ballast Water Management Convention. <i>Chemosphere</i> , 2014, 112, 256-266.	8.2	108
96	Degradation rates of benzotriazoles and benzothiazoles under UV-C irradiation and the advanced oxidation process UV/H <sub>2</sub> O <sub>2</sub> . <i>Water Research</i> , 2015, 74, 143-154.	11.3	108
97	Options and limitations for bromate control during ozonation of wastewater. <i>Water Research</i> , 2017, 116, 76-85.	11.3	105
98	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.	11.3	105
99	Formation of assimilable organic carbon (AOC) and specific natural organic matter (NOM) fractions during ozonation of phytoplankton. <i>Water Research</i> , 2007, 41, 1447-1454.	11.3	102
100	Mechanisms of Phenol Ozonation Kinetics of Formation of Primary and Secondary Reaction Products. <i>Ozone: Science and Engineering</i> , 2009, 31, 201-215.	2.5	101
101	Differences in the chlorine reactivity of four microcystin analogues. <i>Water Research</i> , 2006, 40, 1200-1209.	11.3	100
102	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, 433-441.	11.3	98
103	Occurrence of dissolved and particle-bound taste and odor compounds in Swiss lake waters. <i>Water Research</i> , 2009, 43, 2191-2200.	11.3	97
104	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.	11.3	97
105	Formation of Iodinated Organic Compounds by Oxidation of Iodide-Containing Waters with Manganese Dioxide. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7003-7009.	10.0	95
106	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, 388-397.	11.3	95
107	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.	11.3	95
108	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, 1953-1960.	11.3	93

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109	Molecular-Level Transformation of Dissolved Organic Matter during Oxidation by Ozone and Hydroxyl Radical. <i>Environmental Science &amp; Technology</i> , 2020, 54, 10351-10360.	10.0	93
110	Simultaneous determination of bromide, bromate and nitrite in low $\mu\text{g l}^{-1}$ levels by ion chromatography without sample pretreatment. <i>Water Research</i> , 1999, 33, 3239-3244.	11.3	92
111	Transformation of $\beta$ -Lactam Antibacterial Agents during Aqueous Ozonation: Reaction Pathways and Quantitative Bioassay of Biologically-Active Oxidation Products. <i>Environmental Science &amp; Technology</i> , 2010, 44, 5940-5948.	10.0	92
112	Peracetic Acid Oxidation of Saline Waters in the Absence and Presence of $\text{H}_2\text{O}_2$ : Secondary Oxidant and Disinfection Byproduct Formation. <i>Environmental Science &amp; Technology</i> , 2015, 49, 1698-1705.	10.0	91
113	Ozonation of <i>para</i> -Substituted Phenolic Compounds Yields <i>p</i> -Benzoquinones, Other Cyclic $\alpha,\beta$ -Unsaturated Ketones, and Substituted Catechols. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4763-4773.	10.0	91
114	Reactions of Ferrate(VI) with Iodide and Hypoiodous Acid: Kinetics, Pathways, and Implications for the Fate of Iodine during Water Treatment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7458-7467.	10.0	89
115	Oxidation of iodide and iodine on birnessite ( $\beta\text{-MnO}_2$ ) in the pH range 4–8. <i>Water Research</i> , 2009, 43, 3417-3426.	11.3	87
116	Novel test procedure to evaluate the treatability of wastewater with ozone. <i>Water Research</i> , 2015, 75, 324-335.	11.3	87
117	Kinetics of Inactivation of Waterborne Enteric Viruses by Ozone. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2170-2177.	10.0	84
118	Reductive Dissolution of Fe(III) (Hydr)oxides by Cysteine: Kinetics and Mechanism. <i>Journal of Colloid and Interface Science</i> , 1997, 194, 194-206.	9.4	83
119	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 &amp; Technology</i> , 2015, 49, 9925-9935.	10.0	83
120	Iron isotope fractionation and atom exchange during sorption of ferrous iron to mineral surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1795-1812.	3.9	82
121	Formation of N-nitrosamines from chlorination and chloramination of molecular weight fractions of natural organic matter. <i>Water Research</i> , 2013, 47, 535-546.	11.3	80
122	Photosensitizing and Inhibitory Effects of Ozonated Dissolved Organic Matter on Triplet-Induced Contaminant Transformation. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8541-8549.	10.0	80
123	Bromate formation in advanced oxidation processes. <i>Journal - American Water Works Association</i> , 1996, 88, 53-65.	0.3	79
124	Enhanced Bromate Formation during Chlorination of Bromide-Containing Waters in the Presence of CuO: Catalytic Disproportionation of Hypobromous Acid. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11054-11061.	10.0	79
125	Sulfamethoxazole and isoproturon degradation and detoxification by a laccase-mediator system: Influence of treatment conditions and mechanistic aspects. <i>Biochemical Engineering Journal</i> , 2015, 103, 47-59.	3.6	79
126	Permeability of low molecular weight organics through nanofiltration membranes. <i>Water Research</i> , 2007, 41, 3968-3976.	11.3	76



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127	Oxidation of cetirizine, fexofenadine and hydrochlorothiazide during ozonation: Kinetics and formation of transformation products. <i>Water Research</i> , 2016, 94, 350-362.	11.3	75
128	Trihalomethane formation by chlorination of ammonium- and bromide-containing groundwater in water supplies of Hanoi, Vietnam. <i>Water Research</i> , 2003, 37, 3242-3252.	11.3	74
129	Reactions of aliphatic amines with ozone: Kinetics and mechanisms. <i>Water Research</i> , 2019, 157, 514-528.	11.3	74
130	Hypoiodous acid: kinetics of the buffer-catalyzed disproportionation. <i>Water Research</i> , 2000, 34, 3197-3203.	11.3	73
131	Mechanistic Aspects of the Formation of Adsorbable Organic Bromine during Chlorination of Bromide-containing Synthetic Waters. <i>Environmental Science &amp; Technology</i> , 2017, 51, 5146-5155.	10.0	71
132	By-products formation during drinking water disinfection: a tool to assess disinfection efficiency?. <i>Water Research</i> , 2001, 35, 2095-2099.	11.3	70
133	Ag-doped carbon aerogels for removing halide ions in water treatment. <i>Water Research</i> , 2007, 41, 1031-1037.	11.3	69
134	Removal of bromide and iodide anions from drinking water by silver-activated carbon aerogels. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 437-441.	9.4	68
135	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.	11.3	68
136	Inactivation of <i>Bacillus subtilis</i> spores and formation of bromate during ozonation. <i>Water Research</i> , 2001, 35, 2950-2960.	11.3	67
137	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.	11.3	67
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