

Susan D Richardson

List of Publications by Year in descending order

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104
papers

16,615
citations

39113

52
h-index

35168

102
g-index

105
all docs

105
docs citations

105
times ranked

10670
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Analysis: Emerging Contaminants and Current Issues. <i>Analytical Chemistry</i> , 2022, 94, 382-416.	3.2	92
2	One planet: one health. A call to support the initiative on a global science policy body on chemicals and waste. <i>Environmental Sciences Europe</i> , 2022, 34, 21.	2.6	39
3	A catalyst for integrating analytical biology, analytical chemistry, and engineering to improve drinking water safety: The groundbreaking work of Dr. Michael Plewa. <i>Journal of Environmental Sciences</i> , 2022, , .	3.2	0
4	Planet Contamination with Chemical Compounds. <i>Molecules</i> , 2022, 27, 1621.	1.7	0
5	<i>Microseira wollei</i> and <i>Phormidium</i> algae more than doubles DBP concentrations and calculated toxicity in drinking water. <i>Water Research</i> , 2022, 216, 118316.	5.3	19
6	Drivers of Disinfection Byproduct Cytotoxicity in U.S. Drinking Water: Should Other DBPs Be Considered for Regulation?. <i>Environmental Science & Technology</i> , 2022, 56, 392-402.	4.6	77
7	Relationships between regulated DBPs and emerging DBPs of health concern in U.S. drinking water. <i>Journal of Environmental Sciences</i> , 2022, 117, 161-172.	3.2	10
8	Disinfection byproducts in chlorinated or brominated swimming pools and spas: Role of brominated DBPs and association with mutagenicity. <i>Journal of Environmental Sciences</i> , 2022, 117, 253-263.	3.2	9
9	Do DBPs swim in salt water pools? Comparison of 60 DBPs formed by electrochemically generated chlorine vs. conventional chlorine. <i>Journal of Environmental Sciences</i> , 2022, 117, 232-241.	3.2	8
10	A balancing act: Optimizing free chlorine contact time to minimize iodo-DBPs, NDMA, and regulated DBPs in chloraminated drinking water. <i>Journal of Environmental Sciences</i> , 2022, 117, 315-325.	3.2	9
11	Feel the Burn: Disinfection Byproduct Formation and Cytotoxicity during Chlorine Burn Events. <i>Environmental Science & Technology</i> , 2022, 56, 8245-8254.	4.6	10
12	How well does XAD resin extraction recover halogenated disinfection byproducts for comprehensive identification and toxicity testing?. <i>Journal of Environmental Sciences</i> , 2022, 117, 264-275.	3.2	3
13	Non-target screening and novel methods based on mass spectrometry detection for identification of unknown disinfection byproducts. <i>Comprehensive Analytical Chemistry</i> , 2021, , 1-29.	0.7	3
14	Inability of GSTT1 to activate iodinated halomethanes to mutagens in <i>Salmonella</i> . <i>Environmental and Molecular Mutagenesis</i> , 2021, 62, 168-176.	0.9	2
15	Making Swimming Pools Safer: Does Copper Silver Ionization with Chlorine Lower the Toxicity and Disinfection Byproduct Formation?. <i>Environmental Science & Technology</i> , 2021, 55, 2908-2918.	4.6	36
16	In vitro effects-based method and water quality screening model for use in pre- and post-distribution treated waters. <i>Science of the Total Environment</i> , 2021, 768, 144750.	3.9	11
17	Are Disinfection Byproducts (DBPs) Formed in My Cup of Tea? Regulated, Priority, and Unknown DBPs. <i>Environmental Science & Technology</i> , 2021, 55, 12994-13004.	4.6	12
18	Tackling unknown disinfection by-products: Lessons learned. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100041.	2.0	14

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19	Disinfection Byproduct Recovery during Extraction and Concentration in Preparation for Chemical Analyses or Toxicity Assays. <i>Environmental Science & Technology</i> , 2021, 55, 14136-14145.	4.6	23
20	Chloramination of iopamidol- and bromide-spiked waters containing natural organic matter. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 886-898.	1.0	2
21	A novel automated method for the quantification of ten halobenzoquinones in drinking water using online solid-phase extraction coupled with liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1612, 460642.	1.8	24
22	Ultrafast photodegradation of isoxazole and isothiazolinones by UV254 and UV254/H2O2 photolysis in a microcapillary reactor. <i>Water Research</i> , 2020, 169, 115203.	5.3	15
23	GAC to BAC: Does it make chloraminated drinking water safer?. <i>Water Research</i> , 2020, 172, 115432.	5.3	53
24	Water Analysis: Emerging Contaminants and Current Issues. <i>Analytical Chemistry</i> , 2020, 92, 473-505.	3.2	264
25	Disinfection byproducts and halogen-specific total organic halogen speciation in chlorinated source waters – The impact of iopamidol and bromide. <i>Journal of Environmental Sciences</i> , 2020, 89, 90-101.	3.2	17
26	Controlling disinfection byproducts from treated wastewater using adsorption with granular activated carbon: Impact of pre-ozonation and pre-chlorination. <i>Water Research X</i> , 2020, 9, 100068.	2.8	14
27	Treating water containing elevated bromide and iodide levels with granular activated carbon and free chlorine: impacts on disinfection byproduct formation and calculated toxicity. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 3460-3475.	1.2	7
28	Tracking the formation of new brominated disinfection by-products during the seawater desalination process. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2521-2541.	1.2	12
29	High-Resolution Mass Spectrometry Identification of Novel Surfactant-Derived Sulfur-Containing Disinfection Byproducts from Gas Extraction Wastewater. <i>Environmental Science & Technology</i> , 2020, 54, 9374-9386.	4.6	27
30	Mixed organic and inorganic tapwater exposures and potential effects in greater Chicago area, USA. <i>Science of the Total Environment</i> , 2020, 719, 137236.	3.9	32
31	Transformation potential of cannabinoids during their passage through engineered water treatment systems: A perspective. <i>Environment International</i> , 2020, 137, 105586.	4.8	7
32	Coming to academia through the “back door”. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1719-1720.	1.9	0
33	Trace Analysis of 61 Emerging Br-, Cl-, and I-DBPs: New Methods to Achieve Part-Per-Trillion Quantification in Drinking Water. <i>Analytical Chemistry</i> , 2020, 92, 3058-3068.	3.2	53
34	Effect-Directed Analysis (EDA): A Promising Tool for Nontarget Identification of Unknown Disinfection Byproducts in Drinking Water. <i>Environmental Science & Technology</i> , 2020, 54, 1290-1292.	4.6	39
35	Degradation of contaminants of emerging concern by UV/H2O2 for water reuse: Kinetics, mechanisms, and cytotoxicity analysis. <i>Water Research</i> , 2020, 174, 115587.	5.3	66
36	To regulate or not to regulate? What to do with more toxic disinfection by-products?. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103939.	3.3	120

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37	Probing the Formation of Reactive Oxygen Species by a Porous Self-Assembled Benzophenone Bis-Urea Host. <i>ACS Omega</i> , 2019, 4, 8290-8298.	1.6	7
38	Does Granular Activated Carbon with Chlorination Produce Safer Drinking Water? From Disinfection Byproducts and Total Organic Halogen to Calculated Toxicity. <i>Environmental Science & Technology</i> , 2019, 53, 5987-5999.	4.6	125
39	Formation of Iodinated Disinfection Byproducts (I-DBPs) in Drinking Water: Emerging Concerns and Current Issues. <i>Accounts of Chemical Research</i> , 2019, 52, 896-905.	7.6	144
40	Exposure Characterization of Haloacetic Acids in Humans for Exposure and Risk Assessment Applications: An Exploratory Study. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 471.	1.2	26
41	Emerging <i>Lyngbya wollei</i> toxins: A new high resolution mass spectrometry method to elucidate a potential environmental threat. <i>Harmful Algae</i> , 2019, 90, 101700.	2.2	9
42	The DBP exposome: Development of a new method to simultaneously quantify priority disinfection by-products and comprehensively identify unknowns. <i>Water Research</i> , 2019, 148, 324-333.	5.3	64
43	Predominant <i>N</i> -Haloacetamide and Haloacetonitrile Formation in Drinking Water via the Aldehyde Reaction Pathway. <i>Environmental Science & Technology</i> , 2019, 53, 850-859.	4.6	34
44	Impact of chlorine exposure time on disinfection byproduct formation in the presence of iopamidol and natural organic matter during chloramination. <i>Journal of Environmental Sciences</i> , 2019, 78, 204-214.	3.2	9
45	Formation of DBPs and halogen-specific TOX in the presence of iopamidol and chlorinated oxidants. <i>Chemosphere</i> , 2018, 202, 349-357.	4.2	19
46	Water Analysis: Emerging Contaminants and Current Issues. <i>Analytical Chemistry</i> , 2018, 90, 398-428.	3.2	465
47	Effects of HCO ₃ ⁻ on Degradation of Toxic Contaminants of Emerging Concern by UV/NO ₃ ⁻ . <i>Environmental Science & Technology</i> , 2018, 52, 12697-12707.	4.6	129
48	Chlorination of Source Water Containing Iodinated X-ray Contrast Media: Mutagenicity and Identification of New Iodinated Disinfection Byproducts. <i>Environmental Science & Technology</i> , 2018, 52, 13047-13056.	4.6	45
49	Emerging environmental contaminants: Challenges facing our next generation and potential engineering solutions. <i>Environmental Technology and Innovation</i> , 2017, 8, 40-56.	3.0	224
50	TIC-Tox: A preliminary discussion on identifying the forcing agents of DBP-mediated toxicity of disinfected water. <i>Journal of Environmental Sciences</i> , 2017, 58, 208-216.	3.2	184
51	Formation of iodo-trihalomethanes, iodo-haloacetic acids, and haloacetaldehydes during chlorination and chloramination of iodine containing waters in laboratory controlled reactions. <i>Journal of Environmental Sciences</i> , 2017, 58, 127-134.	3.2	44
52	Halogenated Organic Compounds Identified in Hydraulic Fracturing Wastewaters Using Ultrahigh Resolution Mass Spectrometry. <i>Environmental Science & Technology</i> , 2017, 51, 5377-5385.	4.6	71
53	Method to assess component contribution to toxicity of complex mixtures: Assessment of puberty acquisition in rats exposed to disinfection byproducts. <i>Journal of Environmental Sciences</i> , 2017, 58, 311-321.	3.2	8
54	Total organic halogen (TOX) in human urine: A halogen-specific method for human exposure studies. <i>Journal of Environmental Sciences</i> , 2017, 58, 285-295.	3.2	39

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55	The impact of iodinated X-ray contrast agents on formation and toxicity of disinfection by-products in drinking water. <i>Journal of Environmental Sciences</i> , 2017, 58, 173-182.	3.2	46
56	Exposome-Scale Investigations Guided by Global Metabolomics, Pathway Analysis, and Cognitive Computing. <i>Analytical Chemistry</i> , 2017, 89, 11505-11513.	3.2	106
57	Showering in Flint, MI: Is there a DBP problem?. <i>Journal of Environmental Sciences</i> , 2017, 58, 271-284.	3.2	43
58	Disinfection By-Products in Drinking Water, Recycled Water and Wastewater: Formation, Detection, Toxicity and Health Effects: Preface. <i>Journal of Environmental Sciences</i> , 2017, 58, 1.	3.2	18
59	Identification and Comparative Mammalian Cell Cytotoxicity of New Iodo-Phenolic Disinfection Byproducts in Chloraminated Oil and Gas Wastewaters. <i>Environmental Science and Technology Letters</i> , 2017, 4, 475-480.	3.9	83
60	Progressive Increase in Disinfection Byproducts and Mutagenicity from Source to Tap to Swimming Pool and Spa Water: Impact of Human Inputs. <i>Environmental Science & Technology</i> , 2016, 50, 6652-6662.	4.6	116
61	A new technique helps to uncover unknown peptides and disinfection by-products in water. <i>Journal of Environmental Sciences</i> , 2016, 42, 6-8.	3.2	13
62	Exposure science in an age of rapidly changing climate: challenges and opportunities. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2016, 26, 529-538.	1.8	11
63	Characterization of iodinated disinfection by-products in chlorinated and chloraminated waters using Orbitrap based gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3401-3411.	1.9	60
64	Comparative Toxicity of High-Molecular Weight Iopamidol Disinfection Byproducts. <i>Environmental Science and Technology Letters</i> , 2016, 3, 81-84.	3.9	40
65	Water Analysis: Emerging Contaminants and Current Issues. <i>Analytical Chemistry</i> , 2016, 88, 546-582.	3.2	348
66	Investigation on the removal of the major cocaine metabolite (benzoylecgonine) in water matrices by UV 254 /H ₂ O ₂ process by using a flow microcapillary film array photoreactor as an efficient experimental tool. <i>Water Research</i> , 2016, 89, 375-383.	5.3	25
67	Occurrence and Comparative Toxicity of Haloacetaldehyde Disinfection Byproducts in Drinking Water. <i>Environmental Science & Technology</i> , 2015, 49, 13749-13759.	4.6	167
68	Estimating Potential Increased Bladder Cancer Risk Due to Increased Bromide Concentrations in Sources of Disinfected Drinking Waters. <i>Environmental Science & Technology</i> , 2015, 49, 13094-13102.	4.6	88
69	Formation of DBPs: State of the Science. <i>ACS Symposium Series</i> , 2015, , 189-214.	0.5	48
70	Bromination of Marine Dissolved Organic Matter following Full Scale Electrochemical Ballast Water Disinfection. <i>Environmental Science & Technology</i> , 2015, 49, 9048-9055.	4.6	62
71	Comparative Toxicity of Chlorinated Saline and Freshwater Wastewater Effluents to Marine Organisms. <i>Environmental Science & Technology</i> , 2015, 49, 14475-14483.	4.6	81
72	Transformation of pharmaceuticals during oxidation/disinfection processes in drinking water treatment. <i>Journal of Hazardous Materials</i> , 2014, 279, 461-475.	6.5	197

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73	Changes in Dissolved Organic Matter during the Treatment Processes of a Drinking Water Plant in Sweden and Formation of Previously Unknown Disinfection Byproducts. <i>Environmental Science & Technology</i> , 2014, 48, 12714-12722.	4.6	155
74	Transformation of Iopamidol during Chlorination. <i>Environmental Science & Technology</i> , 2014, 48, 12689-12697.	4.6	127
75	Water Analysis: Emerging Contaminants and Current Issues. <i>Analytical Chemistry</i> , 2014, 86, 2813-2848.	3.2	740
76	Emerging risks from ballast water treatment: The run-up to the International Ballast Water Management Convention. <i>Chemosphere</i> , 2014, 112, 256-266.	4.2	108
77	Occurrence and Toxicity of Disinfection Byproducts in European Drinking Waters in Relation with the HIWATE Epidemiology Study. <i>Environmental Science & Technology</i> , 2012, 46, 12120-12128.	4.6	143
78	Investigation of the degradation of cresols in the treatments with ozone. <i>Water Research</i> , 2012, 46, 2795-2804.	5.3	49
79	Formation of Toxic Iodinated Disinfection By-Products from Compounds Used in Medical Imaging. <i>Environmental Science & Technology</i> , 2011, 45, 6845-6854.	4.6	242
80	Water Analysis: Emerging Contaminants and Current Issues. <i>Analytical Chemistry</i> , 2011, 83, 4614-4648.	3.2	804
81	Mammalian cell cytotoxicity and genotoxicity of the haloacetic acids, a major class of drinking water disinfection by-products. <i>Environmental and Molecular Mutagenesis</i> , 2010, 51, 871-878.	0.9	266
82	Comparison of Byproduct Formation in Waters Treated with Chlorine and Iodine: Relevance to Point-of-Use Treatment. <i>Environmental Science & Technology</i> , 2010, 44, 8446-8452.	4.6	111
83	Concentration, Chlorination, and Chemical Analysis of Drinking Water for Disinfection Byproduct Mixtures Health Effects Research: U.S. EPA's Four Lab Study. <i>Environmental Science & Technology</i> , 2010, 44, 7184-7192.	4.6	122
84	What's in the Pool? A Comprehensive Identification of Disinfection By-products and Assessment of Mutagenicity of Chlorinated and Brominated Swimming Pool Water. <i>Environmental Health Perspectives</i> , 2010, 118, 1523-1530.	2.8	269
85	Occurrence, Synthesis, and Mammalian Cell Cytotoxicity and Genotoxicity of Haloacetamides: An Emerging Class of Nitrogenous Drinking Water Disinfection Byproducts. <i>Environmental Science & Technology</i> , 2008, 42, 955-961.	4.6	452
86	Occurrence and Mammalian Cell Toxicity of Iodinated Disinfection Byproducts in Drinking Water. <i>Environmental Science & Technology</i> , 2008, 42, 8330-8338.	4.6	830
87	Integrated Disinfection By-Products Mixtures Research: Comprehensive Characterization of Water Concentrates Prepared from Chlorinated and Ozonated/Postchlorinated Drinking Water. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2008, 71, 1165-1186.	1.1	99
88	Comparative Mammalian Cell Toxicity of N-DBPs and C-DBPs. <i>ACS Symposium Series</i> , 2008, , 36-50.	0.5	164
89	Occurrence, genotoxicity, and carcinogenicity of regulated and emerging disinfection by-products in drinking water: A review and roadmap for research. <i>Mutation Research - Reviews in Mutation Research</i> , 2007, 636, 178-242.	2.4	2,531
90	Drowning in Disinfection Byproducts? Assessing Swimming Pool Water. <i>Environmental Science & Technology</i> , 2007, 41, 363-372.	4.6	318

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91	Haloacetonitriles vs. Regulated Haloacetic Acids: Are Nitrogen-Containing DBPs More Toxic?. Environmental Science & Technology, 2007, 41, 645-651.	4.6	597
92	Occurrence of a New Generation of Disinfection Byproducts. Environmental Science & Technology, 2006, 40, 7175-7185.	4.6	1,633
93	Comparative mutagenicity of halomethanes and halonitromethanes in Salmonella TA100: structure-activity analysis and mutation spectra. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2004, 554, 335-350.	0.4	41
94	Halonitromethane Drinking Water Disinfection Byproducts: Chemical Characterization and Mammalian Cell Cytotoxicity and Genotoxicity. Environmental Science & Technology, 2004, 38, 62-68.	4.6	446
95	Chemical and Biological Characterization of Newly Discovered Iodoacid Drinking Water Disinfection Byproducts. Environmental Science & Technology, 2004, 38, 4713-4722.	4.6	433
96	Mutagenicity in Salmonella of halonitromethanes: a recently recognized class of disinfection by-products in drinking water. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2004, 562, 39-65.	0.9	36
97	Disinfection by-products and other emerging contaminants in drinking water. TrAC - Trends in Analytical Chemistry, 2003, 22, 666-684.	5.8	607
98	Tribromopyrrole, Brominated Acids, and Other Disinfection Byproducts Produced by Disinfection of Drinking Water Rich in Bromide. Environmental Science & Technology, 2003, 37, 3782-3793.	4.6	247
99	Hydrogen Abstraction and Decomposition of Bromopicrin and Other Trihalogenated Disinfection Byproducts by GC/MS. Environmental Science & Technology, 2002, 36, 3362-3371.	4.6	45
100	The role of GC-MS and LC-MS in the discovery of drinking water disinfection by-products. Journal of Environmental Monitoring, 2002, 4, 1-9.	2.1	113
101	Assessing exposure in epidemiologic studies to disinfection by-products in drinking water: report from an international workshop.. Environmental Health Perspectives, 2002, 110, 53-60.	2.8	79
102	Identification of New Ozone Disinfection Byproducts in Drinking Water. Environmental Science & Technology, 1999, 33, 3368-3377.	4.6	227
103	Identification of New Drinking Water Disinfection Byproducts Formed in the Presence of Bromide. Environmental Science & Technology, 1999, 33, 3378-3383.	4.6	150
104	Multispectral Identification of Chlorine Dioxide Disinfection Byproducts in Drinking Water. Environmental Science & Technology, 1994, 28, 592-599.	4.6	103