Ernest R Blatchley

List of Publications by Year
in descending order

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85 papers	3,282 citations	109321 35 h-index	155660 55 g-index
86 all docs	86 docs citations	86 times ranked	2447 citing authors

#	Article	IF	Citations
1	Far UV-C radiation: An emerging tool for pandemic control. Critical Reviews in Environmental Science and Technology, 2023, 53, 733-753.	12.8	41
2	Long-Term Monitoring of Water and Air Quality at an Indoor Pool Facility during Modifications of Water Treatment. Water (Switzerland), 2022, 14, 335.	2.7	7
3	Novel sustainable filter for virus filtration and inactivation. Scientific Reports, 2022, 12, .	3.3	5
4	Effects of fulvic acid size on microcystin-LR photodegradation and detoxification in the chlorine/UV process. Water Research, 2021, 193, 116893.	11.3	13
5	Real-Time Measurements of Gas-Phase Trichloramine (NCl₃) in an Indoor Aquatic Center. Environmental Science & Technology, 2021, 55, 8097-8107.	10.0	14
6	Photolysis of N-chlorourea and its effect on urea removal in a combined pre-chlorination and UV254 process. Journal of Hazardous Materials, 2021, 411, 125111.	12.4	11
7	Modeling the energy consumption of potable water reuse schemes. Water Research X, 2021, 13, 100126.	6.1	25
8	Methyl chloride produced during UV254 irradiation of saline water. Journal of Hazardous Materials, 2020, 384, 121263.	12.4	12
9	Volatile organic chloramines formation during ClO2 treatment. Journal of Environmental Sciences, 2020, 92, 256-263.	6.1	10
10	UV Photolysis of Mono- and Dichloramine Using UV-LEDs as Radiation Sources: Photodecay Rates and Radical Concentrations. Environmental Science & Technology, 2020, 54, 8420-8429.	10.0	74
11	Chlorine/UV treatment of anatoxin-a by activation of the secondary amine functional group. Environmental Science: Water Research and Technology, 2020, 6, 1412-1420.	2.4	12
12	Using Algal Virus Paramecium bursaria Chlorella Virus as a Human Adenovirus Surrogate for Validation of UV Treatment Systems. Environmental Science & Technology, 2020, 54, 15507-15515.	10.0	7
13	A Dialectical and Dialogical Approach to Health Policies and Programs: The Case of Open Defecation in India. Health Communication, 2019, 34, 1231-1241.	3.1	2
14	Stochastic Evaluation of Disinfection Performance in Large-Scale Open-Channel UV Photoreactors. Journal of Environmental Engineering, ASCE, 2019, 145, .	1.4	6
15	Assessing the Impact of Cyanuric Acid on Batherâ€™s Risk of Gastrointestinal Illness at Swimming Pools. Water (Switzerland), 2019, 11, 1314.	2.7	6
16	CH₃NCl₂ Formation from Chlorination of Carbamate Insecticides. Environmental Science & Technology, 2019, 53, 13098-13106.	10.0	14
17	Synergistic removal of ammonium by monochloramine photolysis. Water Research, 2019, 152, 226-233.	11.3	56
18	Responses of Salmonella typhimurium LT2, Vibrio harveyi, and Cryptosporidium parvum to UVB and UVA radiation. Chemical Engineering Journal, 2019, 371, 647-656.	12.7	18

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19	Micropollutant Degradation by the UV/H₂O₂ Process: Kinetic Comparison among Various Radiation Sources. Environmental Science & Technology, 2019, 53, 5241-5248.	10.0	27
20	Organic Pollutant Degradation in Water by the Vacuum-Ultraviolet/Ultraviolet/H₂O₂ Process: Inhibition and Enhancement Roles of H₂O₂. Environmental Science & Technology, 2019, 53, 912-918.	10.0	42
21	Ray Tracing for Fluence Rate Simulations in Ultraviolet Photoreactors. Environmental Science & Technology, 2018, 52, 4738-4745.	10.0	19
22	Who is being left behind? An analysis of improved drinking water and basic sanitation access in the Vietnamese Mekong Delta. Journal of Water Sanitation and Hygiene for Development, 2018, 8, 508-519.	1.8	8
23	Trace Organic Pollutant Removal by VUV/UV/chlorine Process: Feasibility Investigation for Drinking Water Treatment on a Mini-Fluidic VUV/UV Photoreaction System and a Pilot Photoreactor. Environmental Science & Technology, 2018, 52, 7426-7433.	10.0	35
24	The Biological Basis for Ballast Water Performance Standards: â€œViable/Non-Viableâ€•or â€œLive/Deadâ€?. Environmental Science & Technology, 2018, 52, 8075-8086.	10.0	22
25	A qualitative study of communication, cultural identity, and open defecation. Qualitative Research Reports in Communication, 2018, 19, 51-61.	1.5	6
26	Experimental Assessment of Photon Fluence Rate Distributions in a Medium-Pressure UV Photoreactor. Environmental Science & Technology, 2017, 51, 3453-3460.	10.0	8
27	Effects of Concrete Composition on Resistance to Microbially Induced Corrosion. Journal of Environmental Engineering, ASCE, 2017, 143, .	1.4	15
28	UV-induced effects on toxicity of model disinfection byproducts. Science of the Total Environment, 2017, 599-600, 94-97.	8.0	13
29	Integrated electrocoagulation-electrooxidation process for the treatment of soluble coffee effluent: Optimization of COD degradation and operation time analysis. Journal of Environmental Management, 2017, 200, 530-538.	7.8	48
30	Tetraselmis as a challenge organism for validation of ballast water UV systems. Water Research, 2017, 121, 311-319.	11.3	29
31	Experimental Evaluation of Turbidity Impact on the Fluence Rate Distribution in a UV Reactor Using a Microfluorescent Silica Detector. Environmental Science & Technology, 2017, 51, 13241-13247.	10.0	5
32	On-Site Determination and Monitoring of Real-Time Fluence Delivery for an Operating UV Reactor Based on a True Fluence Rate Detector. Environmental Science & Technology, 2017, 51, 8094-8100.	10.0	11
33	Chlorine/UV Process for Decomposition and Detoxification of Microcystin-LR. Environmental Science & Technology, 2016, 50, 7671-7678.	10.0	45
34	Progressive Increase in Disinfection Byproducts and Mutagenicity from Source to Tap to Swimming Pool and Spa Water: Impact of Human Inputs. Environmental Science & Technology, 2016, 50, 6652-6662.	10.0	116
35	Effects of UV-based treatment on volatile disinfection byproducts in a chlorinated, indoor swimming pool. Water Research, 2016, 105, 167-177.	11.3	51
36	Effect of chloride on the formation of volatile disinfection byproducts in chlorinated swimming pools. Water Research, 2016, 105, 413-420.	11.3	43

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37	UV/chlorine process for ammonia removal and disinfection by-product reduction: Comparison with chlorination. Water Research, 2015, 68, 804-811.	11.3	139
38	Seasonal dynamics of water and air chemistry in an indoor chlorinated swimming pool. Water Research, 2015, 68, 771-783.	11.3	51
39	The Presence of Pharmaceuticals and Personal Care Products in Swimming Pools. Environmental Science and Technology Letters, 2014, 1, 495-498.	8.7	52
40	Volatile Disinfection Byproducts Resulting from Chlorination of Uric Acid: Implications for Swimming Pools. Environmental Science & Technology, 2014, 48, 3210-3217.	10.0	44
41	UV-induced effects on chlorination of creatinine. Water Research, 2013, 47, 4948-4956.	11.3	28
42	Ultraviolet-Induced Effects on Chloramine and Cyanogen Chloride Formation from Chlorination of Amino Acids. Environmental Science & Technology, 2013, 47, 4269-4276.	10.0	44
43	Dynamic Behavior of Volatile DBPs and their Precursors in Chlorinated, Indoor Swimming Pools. Proceedings of the Water Environment Federation, 2013, 2013, 543-556.	0.0	0
44	UV Dose-Response Behavior of Air-Exposed Microorganisms. Journal of Environmental Engineering, ASCE, 2012, 138, 780-785.	1.4	12
45	Comparison of CFD, Biodosimetry and Lagrangian Actinometry to Assess UV Reactor Performance. Ozone: Science and Engineering, 2012, 34, 81-91.	2.5	14
46	Continuous-flow solar UVB disinfection reactor for drinking water. Water Research, 2012, 46, 2344-2354.	11.3	41
47	Effects of UV254 irradiation on residual chlorine and DBPs in chlorination of model organic-N precursors in swimming pools. Water Research, 2012, 46, 2674-2682.	11.3	86
48	Ozone and UV₂₅₄ Radiation for Municipal Wastewater Disinfection. Water Environment Research, 2012, 84, 2017-2029.	2.7	18
49	Disinfection by-product dynamics in a chlorinated, indoor swimming pool under conditions of heavy use: National swimming competition. Water Research, 2011, 45, 5241-5248.	11.3	56
50	Application of Ozone and UV₂₅₄ Radiation for Effluent Disinfection at Municipal Wastewater Treatment Facilities. Proceedings of the Water Environment Federation, 2011, 2011, 328-349.	0.0	0
51	Model of Radiation Transmittance by Inorganic Fouling on UV Reactor Lamp Sleeves. Water Environment Research, 2010, 82, 2272-2278.	2.7	11
52	Reaction Mechanism for Chlorination of Urea. Environmental Science & Technology, 2010, 44, 8529-8534.	10.0	71
53	UV disinfection system for cabin air. Advances in Space Research, 2009, 44, 942-948.	2.6	7
54	UV Photodegradation of Inorganic Chloramines. Environmental Science & Technology, 2009, 43, 60-65.	10.0	184

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55	Validation of medium-pressure UV disinfection reactors by Lagrangian actinometry using dyed microspheres. Water Research, 2009, 43, 1370-1380.	11.3	16
56	Volatile disinfection by-product analysis from chlorinated indoor swimming pools. Water Research, 2009, 43, 3308-3318.	11.3	149
57	Childhood Asthma and Environmental Exposures at Swimming Pools: State of the Science and Research Recommendations. Environmental Health Perspectives, 2009, 117, 500-507.	6.0	128
58	Validation of large-scale, monochromatic UV disinfection systems for drinking water using dyed microspheres. Water Research, 2008, 42, 677-688.	11.3	45
59	Investigation of microbial inactivation efficiency of a UV disinfection system employing an excimer lamp. Water Research, 2008, 42, 4838-4846.	11.3	38
60	Development and Performance of a Fluence Rate Distribution Model for a Cylindrical Excimer Lamp. Environmental Science & Technology, 2008, 42, 1605-1614.	10.0	7
61	Formation of Volatile Disinfection Byproducts from Chlorination of Organic-N Precursors in Recreational Water. ACS Symposium Series, 2008, , 172-181.	0.5	4
62	COMBINED APPLICATION OF UV RADIATION AND CHLORINE: IMPLICATIONS WITH RESPECT TO DBP FORMATION AND DESTRUCTION IN RECREATIONAL WATER APPLICATIONS. Proceedings of the Water Environment Federation, 2007, 2007, 128-133.	0.0	4
63	Effects of Wastewater Disinfection on Waterborne Bacteria and Viruses. Water Environment Research, 2007, 79, 81-92.	2.7	77
64	The influence of oxidation reduction potential and water treatment processes on quartz lamp sleeve fouling in ultraviolet disinfection reactors. Water Research, 2007, 41, 2427-2436.	11.3	37
65	Volatile Disinfection Byproduct Formation Resulting from Chlorination of Organicâ^'Nitrogen Precursors in Swimming Pools. Environmental Science & Technology, 2007, 41, 6732-6739.	10.0	150
66	Dyed Microspheres for Quantification of UV Dose Distributions: Photochemical Reactor Characterization by Lagrangian Actinometry. Journal of Environmental Engineering, ASCE, 2006, 132, 1390-1403.	1.4	36
67	Inactivation of Bacillus Spores by Ultraviolet or Gamma Radiation. Journal of Environmental Engineering, ASCE, 2005, 131, 1245-1252.	1.4	55
68	(E)-5-[2-(Methoxycarbonyl)ethenyl]cytidine as a Chemical Actinometer for Germicidal UV Radiation. Environmental Science & Technology, 2005, 39, 3826-3832.	10.0	20
69	TOXICITY OF MODEL ALIPHATIC AMINES AND THEIR CHLORINATED FORMS. Environmental Toxicology and Chemistry, 2004, 23, 239.	4.3	27
70	Transport behavior of 3,3â€²-dichlorobenzidine in a freshwater estuary. Environmental Toxicology and Chemistry, 2003, 22, 20-25.	4.3	1
71	Disinfection efficacy of organic chloramines. Water Research, 2003, 37, 1557-1570.	11.3	105
72	Copper catalysis in chloroform formation during water chlorination. Water Research, 2003, 37, 4385-4394.	11.3	68

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73	Development of a Nucleoside Analog UV Light Sensor. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 703-705.	1.1	3
74	NUMERICAL MODELING OF PROCESS BEHAVIOR IN ULTRAVIOLET DISINFECTION SYSTEMS. Proceedings of the Water Environment Federation, 2002, 2002, 358-372.	0.0	3
75	Photodechlorination of 3,3â€²-dichlorobenzidine in water. Environmental Toxicology and Chemistry, 2002, 21, 500-506.	4.3	6
76	PHOTODECHLORINATION OF 3,3â€²-DICHLOROBENZIDINE IN WATER. Environmental Toxicology and Chemistry, 2002, 21, 500.	4.3	1
77	Breakpoint Chemistry and Volatile Byproduct Formation Resulting from Chlorination of Model Organic-N Compounds. Environmental Science & Technology, 2000, 34, 1721-1728.	10.0	77
78	Effect of UV System Modifications on Disinfection Performance. Journal of Environmental Engineering, ASCE, 1999, 125, 459-469.	1.4	33
79	Differentiation and Quantification of Free Chlorine and Inorganic Chloramines in Aqueous Solution by MIMS. Environmental Science & Technology, 1999, 33, 2218-2223.	10.0	133
80	Inorganic fouling at quartz:water interfaces in ultraviolet photoreactorsâ€”I. Chemical characterization. Water Research, 1999, 33, 3321-3329.	11.3	33
81	Inorganic fouling at quartz:water interfaces in ultraviolet photoreactors: II. Temporal and spatial distributions. Water Research, 1999, 33, 3330-3338.	11.3	28
82	Process modeling of ultraviolet disinfection. Water Science and Technology, 1998, 38, 63-69.	2.5	42
83	Effects of disinfectants on wastewater effluent toxicity. Water Research, 1997, 31, 1581-1588.	11.3	47
84	Numerical modelling of UV intensity: Application to collimated-beam reactors and continuous-flow systems. Water Research, 1997, 31, 2205-2218.	11.3	144
85	Effective henry's law constants for free chlorine and free bromine. Water Research, 1992, 26, 99-106.	11.3	31