Marc Edwards

List of Publications by Year
in descending order

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127 papers	6,801 citations	41258 49 h-index	69108 77 g-index
127 all docs	127 docs citations	127 times ranked	4568 citing authors

#	Article	IF	Citations
1	Iron Clogging of Lead-Certified Point-of-Use Pitcher Filters. Environmental Engineering Science, 2022, 39, 587-597.	0.8	3
2	Developing early warning systems to predict water lead levels in tap water for private systems. Water Research, 2022, 221, 118787.	5.3	6
3	Bottled and Well Water Quality in a Small Central Appalachian Community: Household-Level Analysis of Enteric Pathogens, Inorganic Chemicals, and Health Outcomes in Rural Southwest Virginia. International Journal of Environmental Research and Public Health, 2022, 19, 8610.	1.2	4
4	Developing a framework for classifying water lead levels at private drinking water systems: A Bayesian Belief Network approach. Water Research, 2021, 189, 116641.	5.3	23
5	Evaluation of Preparedness and Recovery Needs of Private Well Users After the Great Louisiana Flood of 2016. Journal of Public Health Management and Practice, 2021, 27, 577-587.	0.7	7
6	A Standardized Test Protocol for Evaluation of Scale Reduction Technologies. Environmental Engineering Science, 2021, 38, 1109-1119.	0.8	3
7	Disparities in well water outreach and assistance offered by local health departments: A North Carolina case study. Science of the Total Environment, 2020, 747, 141173.	3.9	11
8	Improving state-level emergency well disinfection strategies in the United States. Science of the Total Environment, 2020, 720, 137451.	3.9	4
9	Evaluating â€œLead-Freeâ€•Brass Performance in Potable Water. Corrosion, 2019, 75, 865-875.	0.5	6
10	Americaâ€™s Path to Drinking Water Infrastructure Inequality and Environmental Injustice: The Case of Flint, Michigan. , 2018, , 79-97.		7
11	The Relationship Between Discolored Water from Corrosion of Old Iron Pipe and Source Water Conditions. Environmental Engineering Science, 2018, 35, 943-952.	0.8	19
12	In Situ Remediation of Iron Pipe Leaks with Calcium Carbonate, Silica, and Wood Ash Particles in Potable Water Systems. Environmental Engineering Science, 2018, 35, 11-18.	0.8	2
13	Effectiveness of Prevailing Flush Guidelines to Prevent Exposure to Lead in Tap Water. International Journal of Environmental Research and Public Health, 2018, 15, 1537.	1.2	26
14	Potential Challenges Meeting the American Academy of Pediatricsâ€™ Lead in School Drinking Water Goal of 1ÂÎ¼g/L. Corrosion, 2018, 74, 914-917.	0.5	16
15	Intake of lead (Pb) from tap water of homes with leaded and low lead plumbing systems. Science of the Total Environment, 2018, 644, 1346-1356.	3.9	48
16	Impact of Leak Size, Pipe Wall Thickness, Water Pressure, and Leak Orientation on Autogenous Metallic Pipe Leak Repair. Corrosion, 2017, 73, 868-879.	0.5	3
17	Water Chemistry Impact on Autogenous Metallic Pipe Leak Repair in Simulated Potable Water Systems. Corrosion, 2017, 73, 1017-1029.	0.5	3
18	Role of Calcium in the Coagulation of NOM with Ferric Chloride. Environmental Science & Technology, 2017, 51, 11652-11659.	4.6	47

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19	Convective Mixing in Distal Pipes Exacerbates Legionella pneumophila Growth in Hot Water Plumbing. Pathogens, 2016, 5, 29.	1.2	29
20	Seasonal Variations in Lead Release to Potable Water. Environmental Science & Technology, 2016, 50, 5269-5277.	4.6	61
21	Quantifying Leadâ€Leaching Potential From Plumbing Exposed to Aggressive Waters. Journal - American Water Works Association, 2016, 108, E458.	0.2	14
22	A human exposome framework for guiding risk management and holistic assessment of recycled water quality. Environmental Science: Water Research and Technology, 2016, 2, 580-598.	1.2	44
23	Long-Term Behavior of Simulated Partial Lead Service Line Replacements. Environmental Engineering Science, 2016, 33, 53-64.	0.8	37
24	Flow Electrification and Non-Uniform Corrosion in Low Conductivity Potable Waters. Journal of the Electrochemical Society, 2016, 163, C139-C144.	1.3	1
25	Incidence of waterborne lead in private drinking water systems in Virginia. Journal of Water and Health, 2015, 13, 897-908.	1.1	78
26	Profiling Private Water Systems to Identify Patterns of Waterborne Lead Exposure. Environmental Science & Technology, 2015, 49, 12697-12704.	4.6	31
27	Copper Deposition Corrosion Elevates Lead Release to Potable Water. Journal - American Water Works Association, 2015, 107, E627.	0.2	15
28	Relationship between Organic Carbon and Opportunistic Pathogens in Simulated Glass Water Heaters. Pathogens, 2015, 4, 355-372.	1.2	31
29	Increased Lead in Water Associated with Iron Corrosion. Environmental Engineering Science, 2015, 32, 361-369.	0.8	68
30	Deposition Corrosion of Galvanized Steel in the Presence of Copper. Corrosion, 2015, , .	0.5	3
31	Issues associated with use of dielectrics in drinking water systems. Journal - American Water Works Association, 2014, 106, E328.	0.2	0
32	Coagulation With Hydrolyzing Metal Salts: Mechanisms and Water Quality Impacts. Critical Reviews in Environmental Science and Technology, 2014, 44, 303-347.	6.6	47
33	Assessing risk with increasingly stringent public health goals: the case of water lead and blood lead in children. Journal of Water and Health, 2014, 12, 57-68.	1.1	39
34	Fetal Death and Reduced Birth Rates Associated with Exposure to Lead-Contaminated Drinking Water. Environmental Science & Technology, 2014, 48, 739-746.	4.6	119
35	Profile Sampling To Characterize Particulate Lead Risks in Potable Water. Environmental Science & Technology, 2014, 48, 6836-6843.	4.6	76
36	Reduced risk estimations after remediation of lead (Pb) in drinking water at two US school districts. Science of the Total Environment, 2014, 466-467, 1011-1021.	3.9	39

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37	In situ remediation of leaks in potable water supply systems. Corrosion Reviews, 2013, 31, 105-122.	1.0	11
38	Impact of treatment on Pb release from full and partially replaced harvested Lead Service Lines (LSLs). Water Research, 2013, 47, 661-671.	5.3	40
39	Effect of connection type on galvanic corrosion between lead and copper pipes. Journal - American Water Works Association, 2013, 105, E576.	0.2	14
40	Effect of zinc and orthophosphate corrosion inhibitors on cementâ€based pipes. Journal - American Water Works Association, 2012, 104, E1.	0.2	8
41	Lead (Pb) in Tap Water and in Blood: Implications for Lead Exposure in the United States. Critical Reviews in Environmental Science and Technology, 2012, 42, 1297-1352.	6.6	164
42	Potential Reversal and the Effects of Flow Pattern on Galvanic Corrosion of Lead. Environmental Science & Technology, 2012, 46, 10941-10947.	4.6	44
43	Impact of advanced water conservation features and new copper pipe on rapid chloramine decay and microbial regrowth. Water Research, 2012, 46, 611-621.	5.3	97
44	Understanding how brass ball valves passing certification testing can cause elevated lead in water when installed. Water Research, 2012, 46, 3240-3250.	5.3	19
45	Effect of Flow Rate and Lead/Copper Pipe Sequence on Lead Release from Service Lines. Water Research, 2012, 46, 4142-4152.	5.3	68
46	Molecular Survey of the Occurrence of Legionella spp., Mycobacterium spp., Pseudomonas aeruginosa, and Amoeba Hosts in Two Chloraminated Drinking Water Distribution Systems. Applied and Environmental Microbiology, 2012, 78, 6285-6294.	1.4	233
47	Experimental determination of the oral bioavailability and bioaccessibility of lead particles. Chemistry Central Journal, 2012, 6, 138.	2.6	68
48	Inhibition of Copper Pitting Corrosion in Aggressive Potable Waters. International Journal of Corrosion, 2012, 2012, 1-16.	0.6	17
49	Controlling copper corrosion in new construction by organic matter removal. Journal - American Water Works Association, 2012, 104, E310.	0.2	9
50	Effects of flow, brass location, tube materials and temperature on corrosion of brass plumbing devices. Corrosion Science, 2011, 53, 1813-1824.	3.0	43
51	Investigating dissolved lead at the tap using various sampling protocols. Journal - American Water Works Association, 2011, 103, 55-67.	0.2	57
52	Galvanic corrosion after simulated smallâ€scale partial lead service line replacements. Journal - American Water Works Association, 2011, 103, 85-99.	0.2	54
53	Zinc content in brass and its influence on lead leaching. Journal - American Water Works Association, 2011, 103, 76-83.	0.2	17
54	Effects of pH, chloride, bicarbonate, and phosphate on brass dezincification. Journal - American Water Works Association, 2011, 103, 90-102.	0.2	20

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55	Copper pitting in chlorinated, highâ€pH potable water. Journal - American Water Works Association, 2011, 103, 86-98.	0.2	21
56	Failing Our Children: Lead in U.S. School Drinking Water. New Solutions, 2010, 20, 25-47.	0.6	28
57	Leadâ€contaminated water from brass plumbing devices in new buildings. Journal - American Water Works Association, 2010, 102, 66-76.	0.2	66
58	Lead removal from tap water using POU devices. Journal - American Water Works Association, 2010, 102, 91-105.	0.2	29
59	Nutrients and metals effects on nitrification in drinking water systems. Journal - American Water Works Association, 2010, 102, 56-66.	0.2	12
60	Effect of nitrification on corrosion of galvanized iron, copper, and concrete. Journal - American Water Works Association, 2010, 102, 83-93.	0.2	21
61	Effects of Bulk Water Chemistry on Autogenous Healing of Concrete. Journal of Materials in Civil Engineering, 2010, 22, 515-524.	1.3	44
62	The presence of trace phosphine in Lake Taihu water. International Journal of Environmental Analytical Chemistry, 2010, 90, 737-746.	1.8	11
63	Lead Contamination of Potable Water Due to Nitrification. Environmental Science & Technology, 2009, 43, 1890-1895.	4.6	41
64	Elevated Blood Lead in Young Children Due to Lead-Contaminated Drinking Water: Washington, DC, 2001â˜2004. Environmental Science & Technology, 2009, 43, 1618-1623.	4.6	245
65	Nitrification in Drinking Water Systems. Critical Reviews in Environmental Science and Technology, 2009, 39, 153-208.	6.6	150
66	Accelerated chloramine decay and microbial growth by nitrification in premise plumbing. Journal - American Water Works Association, 2009, 101, 51-62.	0.2	65
67	Effect of Nitrification and GAC Filtration on Copper and Lead Leaching in Home Plumbing Systems. Journal of Environmental Engineering, ASCE, 2008, 134, 521-530.	0.7	21
68	Nitrification in Premise Plumbing: Role of Phosphate, pH and Pipe Corrosion. Environmental Science & Technology, 2008, 42, 4280-4284.	4.6	51
69	Secondary effects of implementing arsenic removal treatmentâ€”focus on corrosion and microbial regrowth. Journal - American Water Works Association, 2008, 100, 108-121.	0.2	5
70	Anticipating effects of water quality changes on iron corrosion and red water. Journal of Water Supply: Research and Technology - AQUA, 2007, 56, 55-68.	0.6	22
71	Boron Removal via Formation of Magnesium Silicate Solids during Precipitative Softening. Journal of Environmental Engineering, ASCE, 2007, 133, 149-156.	0.7	18
72	Critical evaluation of the NSF 61 Section 9 test water for Lead. Journal - American Water Works Association, 2007, 99, 133-143.	0.2	25

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73	Chlorideâ€toâ€sulfate mass ratio and lead leaching to water. Journal - American Water Works Association, 2007, 99, 96-109.	0.2	109
74	Lead Particles in Potable Water. Journal - American Water Works Association, 2007, 99, 107-117.	0.2	103
75	Precipitative Removal of As, Ba, B, Cr, Sr, and V Using Sodium Carbonate. Journal of Environmental Engineering, ASCE, 2006, 132, 489-496.	0.7	17
76	Unintended Consequences of Chloramine Hit Home. Proceedings of the Water Environment Federation, 2005, 2005, 240-256.	0.0	10
77	Phosphine in soils, sludges, biogases and atmospheric implicationsâ€"a review. Ecological Engineering, 2005, 24, 457-463.	1.6	80
78	Matrix bound phosphine formation and depletion in eutrophic lake sediment fermentationâ€"simulation of different environmental factors. Anaerobe, 2005, 11, 273-279.	1.0	40
79	Simultaneous Monitoring of Phosphine and of Phosphorus Species in Taihu Lake Sediments and Phosphine Emission from Lake Sediments. Biogeochemistry, 2005, 76, 283-298.	1.7	49
80	Lead leaching from inline brass devices: A critical evaluation of the existing standard. Journal - American Water Works Association, 2005, 97, 66-78.	0.2	21
81	The influence of silica and calcium on arsenate sorption to oxide surfaces. Journal of Water Supply: Research and Technology - AQUA, 2005, 54, 201-211.	0.6	45
82	Boron in the Environment. Critical Reviews in Environmental Science and Technology, 2005, 35, 81-114.	6.6	204
83	Phosphine from Rocks: Mechanically Driven Phosphate Reduction?. Environmental Science & Technology, 2005, 39, 8295-8299.	4.6	37
84	Reduced Phosphorus Compounds in the Environment. Critical Reviews in Environmental Science and Technology, 2005, 35, 333-364.	6.6	60
85	Analysis of Reduced Phosphorus in Samples of Environmental Interest. Environmental Science & Technology, 2005, 39, 4369-4376.	4.6	52
86	Importance of Pb and Cu Particulate Species for Corrosion Control. Journal of Environmental Engineering, ASCE, 2004, 130, 136-144.	0.7	53
87	Temporal and spatial distributions of phosphine in Taihu Lake, China. Science of the Total Environment, 2004, 323, 169-178.	3.9	55
88	Phosphine and methylphosphine production by simulated lightningâ€"a study for the volatile phosphorus cycle and cloud formation in the earth atmosphere. Atmospheric Environment, 2004, 38, 6867-6874.	1.9	37
89	The role of temperature gradients in residential copper pipe corrosion. Corrosion Science, 2004, 46, 1883-1894.	3.0	31
90	Effect of aluminium solids and chlorine on cold water pitting of copper. Corrosion Science, 2004, 46, 3069-3088.	3.0	41

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91	Determination of total chromium in environmental water samples. Water Research, 2004, 38, 2827-2838.	5.3	43
92	role of chlorine and chloramine in corrosion of leadâ€bearing plumbing materials. Journal - American Water Works Association, 2004, 96, 69-81.	0.2	196
93	Phosphine gas in the upper troposphere. Atmospheric Environment, 2003, 37, 2429-2433.	1.9	70
94	Some effects of aqueous silica on the corrosion of iron. Water Research, 2003, 37, 1080-1090.	5.3	54
95	Degradation of Drinking Water Treatment Plant Infrastructure from Enhanced Coagulation. Journal of Infrastructure Systems, 2003, 9, 145-156.	1.0	7
96	Metaphosphate reversion in Laboratory and Pipeâ€Rig Experiments. Journal - American Water Works Association, 2003, 95, 172-178.	0.2	11
97	Phosphate inhibitor use at US utilities. Journal - American Water Works Association, 2002, 94, 57-63.	0.2	91
98	Effect of PHOSPHATE inhibitors on lead release from pipes. Journal - American Water Works Association, 2002, 94, 79-90.	0.2	83
99	Benchâ€Scale Evaluation of Innovative Arsenicâ€Removal Processes. Journal - American Water Works Association, 2002, 94, 78-87.	0.2	4
100	Modeling Silica Sorption to Iron Hydroxide. Environmental Science & Technology, 2002, 36, 582-587.	4.6	149
101	Phosphate inhibition of soluble copper corrosion by-product release. Corrosion Science, 2002, 44, 1057-1071.	3.0	104
102	Solubility controls on aluminum in drinking water at relatively low and high pH. Water Research, 2002, 36, 4356-4368.	5.3	51
103	The importance of temperature in assessing iron pipe corrosion in water distribution systems. Environmental Monitoring and Assessment, 2002, 77, 229-242.	1.3	65
104	Organic matter and copper corrosion by-product release: a mechanistic study. Corrosion Science, 2001, 43, 1-18.	3.0	64
105	Role of temperature, chlorine, and organic matter in copper corrosion by-product release in soft water. Water Research, 2001, 35, 683-690.	5.3	137
106	Role of Aluminosilicate deposits in Lead and Copper Corrosion. Journal - American Water Works Association, 2001, 93, 104-112.	0.2	27
107	IRON PIPE corrosion IN DISTRIBUTION SYSTEMS. Journal - American Water Works Association, 2001, 93, 88-100.	0.2	235
108	Implications of Aqueous Silica Sorption to Iron Hydroxide:Â Mobilization of Iron Colloids and Interference with Sorption of Arsenate and Humic Substances. Environmental Science & Technology, 2001, 35, 3158-3162.	4.6	117

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109	The blue water phenomenon. Journal - American Water Works Association, 2000, 92, 72-82.	0.2	49
110	Increasing alkalinity to reduce turbidity. Journal - American Water Works Association, 2000, 92, 44-54.	0.2	31
111	Phosphate Inhibitors and Red Water in Stagnant Iron Pipes. Journal of Environmental Engineering, ASCE, 2000, 126, 1096-1102.	0.7	41
112	Copper in the Urban Water Cycle. Critical Reviews in Environmental Science and Technology, 2000, 30, 297-326.	6.6	30
113	Desktop guidance for mitigating Pb and Cu corrosion byâ€products. Journal - American Water Works Association, 1999, 91, 66-77.	0.2	54
114	Role of Temperature and pH in Cu(OH)2Solubility. Environmental Science & Technology, 1999, 33, 2607-2610.	4.6	84
115	Predicting fullâ€scale TOC removal. Journal - American Water Works Association, 1999, 91, 159-170.	0.2	28
116	Considerations in As analysis and speciation. Journal - American Water Works Association, 1998, 90, 103-113.	0.2	75
117	Predicting DOC removal during enhanced coagulation. Journal - American Water Works Association, 1997, 89, 78-89.	0.2	104
118	Predicting As removal during metal hydroxide precipitation. Journal - American Water Works Association, 1997, 89, 75-86.	0.2	119
119	Alkalinity, pH, and copper corrosion byâ€product release. Journal - American Water Works Association, 1996, 88, 81-94.	0.2	97
120	Role of organic acidity in sorption of natural organic matter (NOM) to oxide surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 107, 297-307.	2.3	93
121	Corrosion control on the basis of utility experience. Journal - American Water Works Association, 1995, 87, 74-85.	0.2	85
122	The pitting corrosion of copper. Journal - American Water Works Association, 1994, 86, 74-90.	0.2	104
123	Chemistry of arsenic removal during coagulation and Feâ€“Mn oxidation. Journal - American Water Works Association, 1994, 86, 64-78.	0.2	262
124	Accelerated Testing of Copper Corrosion. Journal - American Water Works Association, 1993, 85, 105-113.	0.2	32
125	Transformation of NOM by Ozone and its Effect on Iron and Aluminum Solubility. Journal - American Water Works Association, 1992, 84, 56-66.	0.2	51
126	Effect of Preozonation on Coagulantâ€“NOM Interactions. Journal - American Water Works Association, 1992, 84, 63-72.	0.2	45

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127	A Mechanistic Study of Ozoneâ€induced Particle Destabilization. Journal - American Water Works Association, 1991, 83, 96-105.	0.2	37