Daniel E Giammar

List of Publications by Year
in descending order

126	5,951	53794	85541
papers	citations	45 h-index	71 g-index

130	130	130	5435
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Consistent controls on trace metal micronutrient speciation in wetland soils and stream sediments. Geochimica Et Cosmochimica Acta, 2022, 317, 234-254.	3.9	8
2	Influence of point-of-use filters and stagnation on water quality at a preschool and under laboratory conditions. Water Research, 2022, 211, 118034.	11.3	10
3	Impact of dissolved oxygen and pH on the removal of selenium from water by iron electrocoagulation. Water Research, 2022, 213, 118159.	11.3	17
4	Metal-Catalyzed Hydrolysis of RNA in Aqueous Environments. Environmental Science & Technology, 2022, 56, 3564-3574.	10.0	5
5	Reduction of U(VI) on Chemically Reduced Montmorillonite and Surface Complexation Modeling of Adsorbed U(IV). Environmental Science & Technology, 2022, 56, 4111-4120.	10.0	19
6	Point-of-Use Filters for Lead Removal from Tap Water: Opportunities and Challenges. Environmental Science & Technology, 2022, 56, 4718-4720.	10.0	5
7	Lead phosphate deposition in porous media and implications for lead remediation. Water Research, 2022, 214, 118200.	11.3	8
8	Cost and Energy Metrics for Municipal Water Reuse. ACS ES&T Engineering, 2022, 2, 489-507.	7.6	24
9	Dynamic Responses of Trace Metal Bioaccessibility to Fluctuating Redox Conditions in Wetland Soils and Stream Sediments. ACS Earth and Space Chemistry, 2022, 6, 1331-1344.	2.7	7
10	Ligand-Induced U Mobilization from Chemogenic Uraninite and Biogenic Noncrystalline U(IV) under Anoxic Conditions. Environmental Science & Technology, 2022, 56, 6369-6379.	10.0	8
11	Copper availability governs nitrous oxide accumulation in wetland soils and stream sediments. Geochimica Et Cosmochimica Acta, 2022, 327, 96-115.	3.9	5
12	Redox-Driven Recrystallization of PbO₂. Environmental Science & Technology, 2022, 56, 7864-7872.	10.0	4
13	Role of natural organic matter and hardness on lead release from galvanic corrosion. Environmental Science: Water Research and Technology, 2022, 8, 1687-1699.	2.4	3
14	Effect of sodium silicate on lead release from lead service lines. Water Research, 2021, 188, 116485.	11.3	19
15	Lead Phosphate Particles in Tap Water: Challenges for Point-of-Use Filters. Environmental Science and Technology Letters, 2021, 8, 244-249.	8.7	18
16	Pilot-scale comparison of sodium silicates, orthophosphate and pH adjustment to reduce lead release from lead service lines. Water Research, 2021, 195, 116955.	11.3	17
17	Intercomparison and Refinement of Surface Complexation Models for U(VI) Adsorption onto Goethite Based on a Metadata Analysis. Environmental Science & Technology, 2021, 55, 9352-9361.	10.0	11
18	Estimating Lead Concentrations in Drinking Water after Stagnation in Lead Service Lines Using Water Quality Data from across the United States. Environmental Science and Technology Letters, 2021, 8, 878-883.	8.7	8

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19	Effects of Cu(II) and Zn(II) on PbO₂ Reductive Dissolution under Drinking Water Conditions: Short-term Inhibition and Long-term Enhancement. Environmental Science & Technology, 2021, 55, 14397-14406.	10.0	8
20	Worth a Closer Look: Raman Spectra of Lead-Pipe Scale. Minerals (Basel, Switzerland), 2021, 11, 1047.	2.0	4
21	The Ability of Phosphate To Prevent Lead Release from Pipe Scale When Switching from Free Chlorine to Monochloramine. Environmental Science & Technology, 2020, 54, 879-888.	10.0	36
22	Accumulation on and extraction of lead from point-of-use filters for evaluating lead exposure from drinking water. Environmental Science: Water Research and Technology, 2020, 6, 2734-2741.	2.4	9
23	Why Was My Paper Rejected without Review?. Environmental Science & Technology, 2020, 54, 11641-11644.	10.0	10
24	Cr(VI) Formation from Cr_xFe_{1â€“x}(OH)₃ Induced by Mn(II) Oxidation on the Surface of Cr_xFe_{1â€“x}(OH)₃. ACS Earth and Space Chemistry, 2020, 4, 1558-1564.	2.7	19
25	Impact of ironâ€rich scale in service lines on lead release to water. AWWA Water Science, 2020, 2, e1188.	2.1	6
26	Surface functionalized nanoscale metal oxides for arsenic(<scp>v</scp>), chromium(<scp>vi</scp>), and uranium(<scp>vi</scp>) sorption: considering single- and multi-sorbate dynamics. Environmental Science: Nano, 2020, 7, 3805-3813.	4.3	9
27	Interplay of transport processes and interfacial chemistry affecting chromium reduction and reoxidation with iron and manganese. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	6.0	6
28	Modeling performance of rhamnolipid-coated engineered magnetite nanoparticles for U(<scp>vi</scp>) sorption and separation. Environmental Science: Nano, 2020, 7, 2010-2020.	4.3	13
29	Formation and Transport of Cr(III)-NOM-Fe Colloids upon Reaction of Cr(VI) with NOM-Fe(II) Colloids at Anoxicâ€“Oxic Interfaces. Environmental Science & Technology, 2020, 54, 4256-4266.	10.0	73
30	Effect of Cu(II) on Mn(II) Oxidation by Free Chlorine To Form Mn Oxides at Drinking Water Conditions. Environmental Science & Technology, 2020, 54, 1963-1972.	10.0	24
31	Effect of Aluminum on Lead Release to Drinking Water from Scales of Corrosion Products. Environmental Science & Technology, 2020, 54, 6142-6151.	10.0	20
32	Impact of orthophosphate on lead release from pipe scale in high pH, low alkalinity water. Water Research, 2020, 177, 115764.	11.3	27
33	Cr(VI) Adsorption on Engineered Iron Oxide Nanoparticles: Exploring Complexation Processes and Water Chemistry. Environmental Science & Technology, 2019, 53, 11913-11921.	10.0	70
34	Understanding the Roles of Dissolution and Diffusion in Cr(OH)₃ Oxidation by Î´-MnO₂. ACS Earth and Space Chemistry, 2019, 3, 357-365.	2.7	33
35	Role of Manganese in Accelerating the Oxidation of Pb(II) Carbonate Solids to Pb(IV) Oxide at Drinking Water Conditions. Environmental Science & Technology, 2019, 53, 6699-6707.	10.0	34
36	Tackling Deficiencies in the Presentation and Interpretation of Adsorption Results for New Materials. Environmental Science & Technology, 2019, 53, 5543-5544.	10.0	24

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37	Geochemical Stability of Dissolved Mn(III) in the Presence of Pyrophosphate as a Model Ligand: Complexation and Disproportionation. Environmental Science & Technology, 2019, 53, 5768-5777.	10.0	57
38	Impact of Cu(II) and Zn(II) on the Reductive Dissolution of Pb(IV) Oxide. Environmental Science and Technology Letters, 2019, 6, 745-751.	8.7	6
39	CO₂ Mineral Sequestration in Naturally Porous Basalt. Environmental Science and Technology Letters, 2018, 5, 142-147.	8.7	48
40	Enhanced Uranium Immobilization by Phosphate Amendment under Variable Geochemical and Flow Conditions: Insights from Reactive Transport Modeling. Environmental Science & Technology, 2018, 52, 5841-5850.	10.0	29
41	Engineered superparamagnetic nanomaterials for arsenic(<scp>v</scp>) and chromium(<scp>vi</scp>) sorption and separation: quantifying the role of organic surface coatings. Environmental Science: Nano, 2018, 5, 556-563.	4.3	22
42	Formation and Aggregation of Lead Phosphate Particles: Implications for Lead Immobilization in Water Supply Systems. Environmental Science & Technology, 2018, 52, 12612-12623.	10.0	67
43	Heterogeneous Lead Phosphate Nucleation at Organicâ€“Water Interfaces: Implications for Lead Immobilization. ACS Earth and Space Chemistry, 2018, 2, 869-877.	2.7	16
44	Permanent CO₂ Trapping through Localized and Chemical Gradient-Driven Basalt Carbonation. Environmental Science & Technology, 2018, 52, 8954-8964.	10.0	29
45	Water metal contaminants in a potentially mineral-deficient population of Haiti. International Journal of Environmental Health Research, 2018, 28, 626-634.	2.7	5
46	Carbon Sequestration in Olivine and Basalt Powder Packed Beds. Environmental Science & Technology, 2017, 51, 2105-2112.	10.0	20
47	Spatially-variable carbonation reactions in polycrystalline olivine. Geochimica Et Cosmochimica Acta, 2017, 204, 252-266.	3.9	8
48	Effect of Humic Acid on the Removal of Chromium(VI) and the Production of Solids in Iron Electrocoagulation. Environmental Science & Technology, 2017, 51, 6308-6318.	10.0	95
49	Formation, Aggregation, and Deposition Dynamics of NOM-Iron Colloids at Anoxicâ€“Oxic Interfaces. Environmental Science & Technology, 2017, 51, 12235-12245.	10.0	105
50	Rates of Cr(VI) Generation from Cr_xFe_{1â€“x}(OH)₃ Solids upon Reaction with Manganese Oxide. Environmental Science & Technology, 2017, 51, 12416-12423.	10.0	78
51	CO2 mineral trapping in fractured basalt. International Journal of Greenhouse Gas Control, 2017, 66, 204-217.	4.6	45
52	Roles of Transport Limitations and Mineral Heterogeneity in Carbonation of Fractured Basalts. Environmental Science & Technology, 2017, 51, 9352-9362.	10.0	27
53	Effect of transport limitations and fluid properties on reaction products in fractures of unaltered and serpentinized basalt exposed to high PCO fluids. International Journal of Greenhouse Gas Control, 2017, 63, 310-320.	4.6	35
54	Measurement and Surface Complexation Modeling of U(VI) Adsorption to Engineered Iron Oxide Nanoparticles. Environmental Science & Technology, 2017, 51, 9219-9226.	10.0	41

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55	Dissolution and surface roughening of Columbia River flood basalt at geologic carbon sequestration conditions. Chemical Geology, 2017, 467, 100-109.	3.3	12
56	Phosphate-Induced Immobilization of Uranium in Hanford Sediments. Environmental Science & Technology, 2016, 50, 13486-13494.	10.0	37
57	Dynamics of Chromium(VI) Removal from Drinking Water by Iron Electrocoagulation. Environmental Science & Technology, 2016, 50, 13502-13510.	10.0	107
58	Effect of phosphate on U(VI) sorption to montmorillonite: Ternary complexation and precipitation barriers. Geochimica Et Cosmochimica Acta, 2016, 175, 86-99.	3.9	68
59	MINFIT: A Spreadsheet-Based Tool for Parameter Estimation in an Equilibrium Speciation Software Program. Environmental Science & Technology, 2016, 50, 11112-11120.	10.0	23
60	Evidence from ²⁹Si Solid-State Nuclear Magnetic Resonance of Dissolution Reactions of Forsterite. Environmental Engineering Science, 2016, 33, 799-805.	1.6	9
61	Synergistic Effects between Biogenic Ligands and a Reductant in Fe Acquisition from Calcareous Soil. Environmental Science & Technology, 2016, 50, 6381-6388.	10.0	27
62	Effect of Reaction Pathway on the Extent and Mechanism of Uranium(VI) Immobilization with Calcium and Phosphate. Environmental Science & Technology, 2016, 50, 3128-3136.	10.0	52
63	Element mobilization from Bakken shales as a function of water chemistry. Chemosphere, 2016, 149, 286-293.	8.2	39
64	Determining pH at Elevated Pressure and Temperature Using in Situ ¹³C NMR. Environmental Science & Technology, 2015, 49, 1631-1638.	10.0	6
65	Effects of pH, dissolved oxygen, and aqueous ferrous iron on the adsorption of arsenic to lepidocrocite. Journal of Colloid and Interface Science, 2015, 448, 331-338.	9.4	93
66	Measurement and Modeling of U(IV) Adsorption to Metal Oxide Minerals. Environmental Science and Technology Letters, 2015, 2, 227-232.	8.7	37
67	Long-Term in Situ Oxidation of Biogenic Uraninite in an Alluvial Aquifer: Impact of Dissolved Oxygen and Calcium. Environmental Science & Technology, 2015, 49, 7340-7347.	10.0	23
68	Impact of Water Chemistry on Element Mobilization from Eagle Ford Shale. Environmental Engineering Science, 2015, 32, 310-320.	1.6	46
69	Interaction of Fe(II) with phosphate and sulfate on iron oxide surfaces. Geochimica Et Cosmochimica Acta, 2015, 158, 130-146.	3.9	84
70	Synergistic Effect of Reductive and Ligand-Promoted Dissolution of Goethite. Environmental Science & Technology, 2015, 49, 7236-7244.	10.0	69
71	Transport of U(VI) through sediments amended with phosphate to induce in situ uranium immobilization. Water Research, 2015, 69, 307-317.	11.3	43
72	Metal Contaminant Oxidation Mediated by Manganese Redox Cycling in Subsurface Environment. ACS Symposium Series, 2015, , 29-50.	0.5	22

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73	Impacts of Diffusive Transport on Carbonate Mineral Formation from Magnesium Silicate-CO₂-Water Reactions. Environmental Science & Technology, 2014, 48, 14344-14351.	10.0	20
74	Effect of co-solutes on the products and solubility of uranium(VI) precipitated with phosphate. Chemical Geology, 2014, 364, 66-75.	3.3	75
75	Speciation and Reactivity of Uranium Products Formed during in Situ Bioremediation in a Shallow Alluvial Aquifer. Environmental Science & Technology, 2014, 48, 12842-12850.	10.0	56
76	Effects of Mn(II) on UO₂ Dissolution under Anoxic and Oxic Conditions. Environmental Science & Technology, 2014, 48, 5546-5554.	10.0	36
77	Forsterite Carbonation in Zones with Transport Limited by Diffusion. Environmental Science and Technology Letters, 2014, 1, 333-338.	8.7	21
78	Effect of water chemistry on the dissolution rate ofÂthe lead corrosion product hydrocerussite. Water Research, 2014, 54, 237-246.	11.3	66
79	Oxidative UO₂ Dissolution Induced by Soluble Mn(III). Environmental Science & Technology, 2014, 48, 289-298.	10.0	92
80	Impacts of Geochemical Reactions on Geologic Carbon Sequestration. Environmental Science & Technology, 2013, 47, 3-8.	10.0	133
81	Mass Action Expressions for Bidentate Adsorption in Surface Complexation Modeling: Theory and Practice. Environmental Science & Technology, 2013, 47, 3982-3996.	10.0	94
82	Uraninite oxidation and dissolution induced by manganese oxide: A redox reaction between two insoluble minerals. Geochimica Et Cosmochimica Acta, 2013, 100, 24-40.	3.9	91
83	Kinetics of lead(IV) oxide (PbO2) reductive dissolution: Role of lead(II) adsorption and surface speciation. Journal of Colloid and Interface Science, 2013, 389, 236-243.	9.4	32
84	Forsterite Dissolution in Saline Water at Elevated Temperature and High CO₂ Pressure. Environmental Science & Technology, 2013, 47, 168-173.	10.0	59
85	Adsorption of Uranium(VI) to Manganese Oxides: X-ray Absorption Spectroscopy and Surface Complexation Modeling. Environmental Science & Technology, 2013, 47, 850-858.	10.0	187
86	Relative Reactivity of Biogenic and Chemogenic Uraninite and Biogenic Noncrystalline U(IV). Environmental Science & Technology, 2013, 47, 9756-9763.	10.0	81
87	Effect of connection methods on lead release from galvanic corrosion. Journal - American Water Works Association, 2013, 105, E337.	0.3	29
88	Fate of Metals in Fly Ash During Aging in Laboratory-Scale Ash Impoundments. Environmental Engineering Science, 2012, 29, 1085-1091.	1.6	4
89	Impact of galvanic corrosion on lead release from aged lead service lines. Water Research, 2012, 46, 5049-5060.	11.3	62
90	Effect of diffusive transport limitations on UO2 dissolution. Water Research, 2012, 46, 6023-6032.	11.3	16

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91	Kinetics of the Reductive Dissolution of Lead(IV) Oxide by Iodide. Environmental Science & Technology, 2012, 46, 5859-5866.	10.0	19
92	Metal Release and Speciation Changes during Wet Aging of Coal Fly Ashes. Environmental Science & Technology, 2012, 46, 11804-11812.	10.0	46
93	Effect of Ca2+ and Zn2+ on UO2 Dissolution Rates. Environmental Science & Technology, 2012, 46, 2731-2737.	10.0	31
94	Molecular-Scale Structure of Uranium(VI) Immobilized with Goethite and Phosphate. Environmental Science & Technology, 2012, 46, 6594-6603.	10.0	93
95	Speciation of Selenium, Arsenic, and Zinc in Class C Fly Ash. Energy & Fuels, 2011, 25, 2980-2987.	5.1	63
96	Oxidative Dissolution of Biogenic Uraninite in Groundwater at Old Rifle, CO. Environmental Science & Technology, 2011, 45, 8748-8754.	10.0	66
97	Precipitation of Magnesium Carbonates as a Function of Temperature, Solution Composition, and Presence of a Silicate Mineral Substrate. Environmental Engineering Science, 2011, 28, 881-889.	1.6	34
98	Uranium speciation and stability after reductive immobilization in aquifer sediments. Geochimica Et Cosmochimica Acta, 2011, 75, 6497-6510.	3.9	112
99	Effects of water chemistry on arsenic removal from drinking water by electrocoagulation. Water Research, 2011, 45, 384-392.	11.3	208
100	Effects of flow and water chemistry on lead release rates from pipe scales. Water Research, 2011, 45, 6525-6534.	11.3	90
101	U(VI) reduction by Fe(II) on hematite nanoparticles. Journal of Nanoparticle Research, 2011, 13, 3741-3754.	1.9	22
102	Speciation-Dependent Kinetics of Uranium(VI) Bioreduction. Geomicrobiology Journal, 2011, 28, 396-409.	2.0	31
103	Formation of Lead(IV) Oxides from Lead(II) Compounds. Environmental Science & Technology, 2010, 44, 8950-8956.	10.0	54
104	Impact of Chlorine Disinfectants on Dissolution of the Lead Corrosion Product PbO₂. Environmental Science & Technology, 2010, 44, 7082-7088.	10.0	41
105	Impact of phosphate on U(VI) immobilization in the presence of goethite. Geochimica Et Cosmochimica Acta, 2010, 74, 6324-6343.	3.9	93
106	Effects of pH and Carbonate Concentration on Dissolution Rates of the Lead Corrosion Product PbO₂. Environmental Science & Technology, 2010, 44, 1093-1099.	10.0	53
107	Effect of Mn(II) on the Structure and Reactivity of Biogenic Uraninite. Environmental Science & Technology, 2009, 43, 6541-6547.	10.0	32
108	Comparative dissolution kinetics of biogenic and chemogenic uraninite under oxidizing conditions in the presence of carbonate. Geochimica Et Cosmochimica Acta, 2009, 73, 6065-6083.	3.9	98

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109	Nanoscale Size Effects on Uranium(VI) Adsorption to Hematite. Environmental Science & Technology, 2009, 43, 1373-1378.	10.0	133
110	Indirect UO₂ Oxidation by Mn(II)-oxidizing Spores of Bacillus sp. Strain SG-1 and the Effect of U and Mn Concentrations. Environmental Science & Technology, 2008, 42, 8709-8714.	10.0	45
111	Individual and Competitive Adsorption of Arsenate and Phosphate To a High-Surface-Area Iron Oxide-Based Sorbent. Environmental Science & Technology, 2008, 42, 147-152.	10.0	177
112	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. Progress in Solid State Chemistry, 2008, 36, 1-133.	7.2	58
113	Effects of water chemistry and flow rate on arsenate removal by adsorption to an iron oxide-based sorbent. Water Research, 2008, 42, 4629-4636.	11.3	61
114	Microbial Reduction of Fe(III) in Hematite Nanoparticles by Geobacter sulfurreducens. Environmental Science & Technology, 2008, 42, 6526-6531.	10.0	65
115	Dissolution of Biogenic and Synthetic UO2under Varied Reducing Conditions. Environmental Science & Technology, 2008, 42, 5600-5606.	10.0	91
116	Evaluation of Nanostructured Sorbents in Differential Bed Reactors for Elemental Mercury Capture. Environmental Engineering Science, 2008, 25, 1061-1070.	1.6	14
117	Immobilization of Lead with Nanocrystalline Carbonated Apatite Present in Fish Bone. Environmental Engineering Science, 2008, 25, 725-736.	1.6	36
118	Evaluation of chemical indicators for tracking and apportionment of phosphorus sources to Table Rock Lake in Southwest Missouri, USA. Water Research, 2007, 41, 1525-1533.	11.3	2
119	Effects of Particle Size and Crystalline Phase on Lead Adsorption to Titanium Dioxide Nanoparticles. Environmental Engineering Science, 2007, 24, 85-95.	1.6	147
120	Equilibrium Solubility and Dissolution Rate of the Lead Phosphate Chloropyromorphite. Environmental Science & Technology, 2007, 41, 8050-8055.	10.0	61
121	Evaluation of a Sequential Extraction Process Used for Determining Mercury Binding Mechanisms to Coal Combustion Byproducts. Journal of the Air and Waste Management Association, 2007, 57, 856-867.	1.9	29
122	Forsterite dissolution and magnesite precipitation at conditions relevant for deep saline aquifer storage and sequestration of carbon dioxide. Chemical Geology, 2005, 217, 257-276.	3.3	322
123	Influence of Dissolved Sodium and Cesium on Uranyl Oxide Hydrate Solubility. Environmental Science & Technology, 2004, 38, 171-179.	10.0	41
124	Equilibrium and kinetic aspects of soddyite dissolution and secondary phase precipitation in aqueous suspension. Geochimica Et Cosmochimica Acta, 2002, 66, 3235-3245.	3.9	25
125	Time Scales for Sorptionâˆ'Desorption and Surface Precipitation of Uranyl on Goethite. Environmental Science & Technology, 2001, 35, 3332-3337.	10.0	125
126	Copper Complexation with the Mellitic Acid Series. Journal of Solution Chemistry, 1998, 27, 89-105.	1.2	13