

Daniel E Giammar

List of Publications by Year in descending order

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126
papers

5,951
citations

61687

45
h-index

97045

71
g-index

130
all docs

130
docs citations

130
times ranked

6128
citing authors

#	ARTICLE	IF	CITATIONS
1	Consistent controls on trace metal micronutrient speciation in wetland soils and stream sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 317, 234-254.	1.6	8
2	Influence of point-of-use filters and stagnation on water quality at a preschool and under laboratory conditions. <i>Water Research</i> , 2022, 211, 118034.	5.3	10
3	Impact of dissolved oxygen and pH on the removal of selenium from water by iron electrocoagulation. <i>Water Research</i> , 2022, 213, 118159.	5.3	17
4	Metal-Catalyzed Hydrolysis of RNA in Aqueous Environments. <i>Environmental Science & Technology</i> , 2022, 56, 3564-3574.	4.6	5
5	Reduction of U(VI) on Chemically Reduced Montmorillonite and Surface Complexation Modeling of Adsorbed U(IV). <i>Environmental Science & Technology</i> , 2022, 56, 4111-4120.	4.6	19
6	Point-of-Use Filters for Lead Removal from Tap Water: Opportunities and Challenges. <i>Environmental Science & Technology</i> , 2022, 56, 4718-4720.	4.6	5
7	Lead phosphate deposition in porous media and implications for lead remediation. <i>Water Research</i> , 2022, 214, 118200.	5.3	8
8	Cost and Energy Metrics for Municipal Water Reuse. <i>ACS ES&T Engineering</i> , 2022, 2, 489-507.	3.7	24
9	Dynamic Responses of Trace Metal Bioaccessibility to Fluctuating Redox Conditions in Wetland Soils and Stream Sediments. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1331-1344.	1.2	7
10	Ligand-Induced U Mobilization from Chemogenic Uraninite and Biogenic Noncrystalline U(IV) under Anoxic Conditions. <i>Environmental Science & Technology</i> , 2022, 56, 6369-6379.	4.6	8
11	Copper availability governs nitrous oxide accumulation in wetland soils and stream sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 327, 96-115.	1.6	5
12	Redox-Driven Recrystallization of PbO ₂ . <i>Environmental Science & Technology</i> , 2022, 56, 7864-7872.	4.6	4
13	Role of natural organic matter and hardness on lead release from galvanic corrosion. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 1687-1699.	1.2	3
14	Effect of sodium silicate on lead release from lead service lines. <i>Water Research</i> , 2021, 188, 116485.	5.3	19
15	Lead Phosphate Particles in Tap Water: Challenges for Point-of-Use Filters. <i>Environmental Science and Technology Letters</i> , 2021, 8, 244-249.	3.9	18
16	Pilot-scale comparison of sodium silicates, orthophosphate and pH adjustment to reduce lead release from lead service lines. <i>Water Research</i> , 2021, 195, 116955.	5.3	17
17	Intercomparison and Refinement of Surface Complexation Models for U(VI) Adsorption onto Goethite Based on a Metadata Analysis. <i>Environmental Science & Technology</i> , 2021, 55, 9352-9361.	4.6	11
18	Estimating Lead Concentrations in Drinking Water after Stagnation in Lead Service Lines Using Water Quality Data from across the United States. <i>Environmental Science and Technology Letters</i> , 2021, 8, 878-883.	3.9	8

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19	Effects of Cu(II) and Zn(II) on PbO ₂ Reductive Dissolution under Drinking Water Conditions: Short-term Inhibition and Long-term Enhancement. <i>Environmental Science & Technology</i> , 2021, 55, 14397-14406.	4.6	8
20	Worth a Closer Look: Raman Spectra of Lead-Pipe Scale. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1047.	0.8	4
21	The Ability of Phosphate To Prevent Lead Release from Pipe Scale When Switching from Free Chlorine to Monochloramine. <i>Environmental Science & Technology</i> , 2020, 54, 879-888.	4.6	36
22	Accumulation on and extraction of lead from point-of-use filters for evaluating lead exposure from drinking water. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2734-2741.	1.2	9
23	Why Was My Paper Rejected without Review?. <i>Environmental Science & Technology</i> , 2020, 54, 11641-11644.	4.6	10
24	Cr(VI) Formation from Cr ₂ O ₃ Induced by Mn(II) Oxidation on the Surface of Fe ₃ (OH) ₃ . <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1558-1564.	1.2	19
25	Impact of iron-rich scale in service lines on lead release to water. <i>AWWA Water Science</i> , 2020, 2, e1188.	1.0	6
26	Surface functionalized nanoscale metal oxides for arsenic(^v), chromium(^{vi}), and uranium(^{vi}) sorption: considering single- and multi-sorbate dynamics. <i>Environmental Science: Nano</i> , 2020, 7, 3805-3813.	2.2	9
27	Interplay of transport processes and interfacial chemistry affecting chromium reduction and reoxidation with iron and manganese. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	3.3	6
28	Modeling performance of rhamnolipid-coated engineered magnetite nanoparticles for U(^{vi}) sorption and separation. <i>Environmental Science: Nano</i> , 2020, 7, 2010-2020.	2.2	13
29	Formation and Transport of Cr(III)-NOM-Fe Colloids upon Reaction of Cr(VI) with NOM-Fe(II) Colloids at Anoxic-Oxic Interfaces. <i>Environmental Science & Technology</i> , 2020, 54, 4256-4266.	4.6	73
30	Effect of Cu(II) on Mn(II) Oxidation by Free Chlorine To Form Mn Oxides at Drinking Water Conditions. <i>Environmental Science & Technology</i> , 2020, 54, 1963-1972.	4.6	24
31	Effect of Aluminum on Lead Release to Drinking Water from Scales of Corrosion Products. <i>Environmental Science & Technology</i> , 2020, 54, 6142-6151.	4.6	20
32	Impact of orthophosphate on lead release from pipe scale in high pH, low alkalinity water. <i>Water Research</i> , 2020, 177, 115764.	5.3	27
33	Cr(VI) Adsorption on Engineered Iron Oxide Nanoparticles: Exploring Complexation Processes and Water Chemistry. <i>Environmental Science & Technology</i> , 2019, 53, 11913-11921.	4.6	70
34	Understanding the Roles of Dissolution and Diffusion in Cr(OH) ₃ Oxidation by $\dot{\Gamma}$ -MnO ₂ . <i>ACS Earth and Space Chemistry</i> , 2019, 3, 357-365.	1.2	33
35	Role of Manganese in Accelerating the Oxidation of Pb(II) Carbonate Solids to Pb(IV) Oxide at Drinking Water Conditions. <i>Environmental Science & Technology</i> , 2019, 53, 6699-6707.	4.6	34
36	Tackling Deficiencies in the Presentation and Interpretation of Adsorption Results for New Materials. <i>Environmental Science & Technology</i> , 2019, 53, 5543-5544.	4.6	24

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37	Geochemical Stability of Dissolved Mn(III) in the Presence of Pyrophosphate as a Model Ligand: Complexation and Disproportionation. <i>Environmental Science & Technology</i> , 2019, 53, 5768-5777.	4.6	57
38	Impact of Cu(II) and Zn(II) on the Reductive Dissolution of Pb(IV) Oxide. <i>Environmental Science and Technology Letters</i> , 2019, 6, 745-751.	3.9	6
39	CO ₂ Mineral Sequestration in Naturally Porous Basalt. <i>Environmental Science and Technology Letters</i> , 2018, 5, 142-147.	3.9	48
40	Enhanced Uranium Immobilization by Phosphate Amendment under Variable Geochemical and Flow Conditions: Insights from Reactive Transport Modeling. <i>Environmental Science & Technology</i> , 2018, 52, 5841-5850.	4.6	29
41	Engineered superparamagnetic nanomaterials for arsenic(^v) and chromium(^{vi}) sorption and separation: quantifying the role of organic surface coatings. <i>Environmental Science: Nano</i> , 2018, 5, 556-563.	2.2	22
42	Formation and Aggregation of Lead Phosphate Particles: Implications for Lead Immobilization in Water Supply Systems. <i>Environmental Science & Technology</i> , 2018, 52, 12612-12623.	4.6	67
43	Heterogeneous Lead Phosphate Nucleation at Organic-Water Interfaces: Implications for Lead Immobilization. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 869-877.	1.2	16
44	Permanent CO ₂ Trapping through Localized and Chemical Gradient-Driven Basalt Carbonation. <i>Environmental Science & Technology</i> , 2018, 52, 8954-8964.	4.6	29
45	Water metal contaminants in a potentially mineral-deficient population of Haiti. <i>International Journal of Environmental Health Research</i> , 2018, 28, 626-634.	1.3	5
46	Carbon Sequestration in Olivine and Basalt Powder Packed Beds. <i>Environmental Science & Technology</i> , 2017, 51, 2105-2112.	4.6	20
47	Spatially-variable carbonation reactions in polycrystalline olivine. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 204, 252-266.	1.6	8
48	Effect of Humic Acid on the Removal of Chromium(VI) and the Production of Solids in Iron Electrocoagulation. <i>Environmental Science & Technology</i> , 2017, 51, 6308-6318.	4.6	95
49	Formation, Aggregation, and Deposition Dynamics of NOM-Iron Colloids at Anoxic-Oxic Interfaces. <i>Environmental Science & Technology</i> , 2017, 51, 12235-12245.	4.6	105
50	Rates of Cr(VI) Generation from Cr ₂ Fe ₃ (OH) ₃ Solids upon Reaction with Manganese Oxide. <i>Environmental Science & Technology</i> , 2017, 51, 12416-12423.	4.6	78
51	CO ₂ mineral trapping in fractured basalt. <i>International Journal of Greenhouse Gas Control</i> , 2017, 66, 204-217.	2.3	45
52	Roles of Transport Limitations and Mineral Heterogeneity in Carbonation of Fractured Basalts. <i>Environmental Science & Technology</i> , 2017, 51, 9352-9362.	4.6	27
53	Effect of transport limitations and fluid properties on reaction products in fractures of unaltered and serpentinized basalt exposed to high PCO fluids. <i>International Journal of Greenhouse Gas Control</i> , 2017, 63, 310-320.	2.3	35
54	Measurement and Surface Complexation Modeling of U(VI) Adsorption to Engineered Iron Oxide Nanoparticles. <i>Environmental Science & Technology</i> , 2017, 51, 9219-9226.	4.6	41

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55	Dissolution and surface roughening of Columbia River flood basalt at geologic carbon sequestration conditions. <i>Chemical Geology</i> , 2017, 467, 100-109.	1.4	12
56	Phosphate-Induced Immobilization of Uranium in Hanford Sediments. <i>Environmental Science & Technology</i> , 2016, 50, 13486-13494.	4.6	37
57	Dynamics of Chromium(VI) Removal from Drinking Water by Iron Electrocoagulation. <i>Environmental Science & Technology</i> , 2016, 50, 13502-13510.	4.6	107
58	Effect of phosphate on U(VI) sorption to montmorillonite: Ternary complexation and precipitation barriers. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 175, 86-99.	1.6	68
59	MINFIT: A Spreadsheet-Based Tool for Parameter Estimation in an Equilibrium Speciation Software Program. <i>Environmental Science & Technology</i> , 2016, 50, 11112-11120.	4.6	23
60	Evidence from ²⁹ Si Solid-State Nuclear Magnetic Resonance of Dissolution Reactions of Forsterite. <i>Environmental Engineering Science</i> , 2016, 33, 799-805.	0.8	9
61	Synergistic Effects between Biogenic Ligands and a Reductant in Fe Acquisition from Calcareous Soil. <i>Environmental Science & Technology</i> , 2016, 50, 6381-6388.	4.6	27
62	Effect of Reaction Pathway on the Extent and Mechanism of Uranium(VI) Immobilization with Calcium and Phosphate. <i>Environmental Science & Technology</i> , 2016, 50, 3128-3136.	4.6	52
63	Element mobilization from Bakken shales as a function of water chemistry. <i>Chemosphere</i> , 2016, 149, 286-293.	4.2	39
64	Determining pH at Elevated Pressure and Temperature Using <i>in Situ</i> ¹³ C NMR. <i>Environmental Science & Technology</i> , 2015, 49, 1631-1638.	4.6	6
65	Effects of pH, dissolved oxygen, and aqueous ferrous iron on the adsorption of arsenic to lepidocrocite. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 331-338.	5.0	93
66	Measurement and Modeling of U(IV) Adsorption to Metal Oxide Minerals. <i>Environmental Science and Technology Letters</i> , 2015, 2, 227-232.	3.9	37
67	Long-Term <i>in Situ</i> Oxidation of Biogenic Uraninite in an Alluvial Aquifer: Impact of Dissolved Oxygen and Calcium. <i>Environmental Science & Technology</i> , 2015, 49, 7340-7347.	4.6	23
68	Impact of Water Chemistry on Element Mobilization from Eagle Ford Shale. <i>Environmental Engineering Science</i> , 2015, 32, 310-320.	0.8	46
69	Interaction of Fe(II) with phosphate and sulfate on iron oxide surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 130-146.	1.6	84
70	Synergistic Effect of Reductive and Ligand-Promoted Dissolution of Goethite. <i>Environmental Science & Technology</i> , 2015, 49, 7236-7244.	4.6	69
71	Transport of U(VI) through sediments amended with phosphate to induce <i>in situ</i> uranium immobilization. <i>Water Research</i> , 2015, 69, 307-317.	5.3	43
72	Metal Contaminant Oxidation Mediated by Manganese Redox Cycling in Subsurface Environment. <i>ACS Symposium Series</i> , 2015, , 29-50.	0.5	22

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73	Impacts of Diffusive Transport on Carbonate Mineral Formation from Magnesium Silicate-CO ₂ -Water Reactions. <i>Environmental Science & Technology</i> , 2014, 48, 14344-14351.	4.6	20
74	Effect of co-solutes on the products and solubility of uranium(VI) precipitated with phosphate. <i>Chemical Geology</i> , 2014, 364, 66-75.	1.4	75
75	Speciation and Reactivity of Uranium Products Formed during <i>in Situ</i> Bioremediation in a Shallow Alluvial Aquifer. <i>Environmental Science & Technology</i> , 2014, 48, 12842-12850.	4.6	56
76	Effects of Mn(II) on UO ₂ Dissolution under Anoxic and Oxic Conditions. <i>Environmental Science & Technology</i> , 2014, 48, 5546-5554.	4.6	36
77	Forsterite Carbonation in Zones with Transport Limited by Diffusion. <i>Environmental Science and Technology Letters</i> , 2014, 1, 333-338.	3.9	21
78	Effect of water chemistry on the dissolution rate of the lead corrosion product hydrocerussite. <i>Water Research</i> , 2014, 54, 237-246.	5.3	66
79	Oxidative UO ₂ Dissolution Induced by Soluble Mn(III). <i>Environmental Science & Technology</i> , 2014, 48, 289-298.	4.6	92
80	Impacts of Geochemical Reactions on Geologic Carbon Sequestration. <i>Environmental Science & Technology</i> , 2013, 47, 3-8.	4.6	133
81	Mass Action Expressions for Bidentate Adsorption in Surface Complexation Modeling: Theory and Practice. <i>Environmental Science & Technology</i> , 2013, 47, 3982-3996.	4.6	94
82	Uraninite oxidation and dissolution induced by manganese oxide: A redox reaction between two insoluble minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 100, 24-40.	1.6	91
83	Kinetics of lead(IV) oxide (PbO ₂) reductive dissolution: Role of lead(II) adsorption and surface speciation. <i>Journal of Colloid and Interface Science</i> , 2013, 389, 236-243.	5.0	32
84	Forsterite Dissolution in Saline Water at Elevated Temperature and High CO ₂ Pressure. <i>Environmental Science & Technology</i> , 2013, 47, 168-173.	4.6	59
85	Adsorption of Uranium(VI) to Manganese Oxides: X-ray Absorption Spectroscopy and Surface Complexation Modeling. <i>Environmental Science & Technology</i> , 2013, 47, 850-858.	4.6	187
86	Relative Reactivity of Biogenic and Chemogenic Uraninite and Biogenic Noncrystalline U(IV). <i>Environmental Science & Technology</i> , 2013, 47, 9756-9763.	4.6	81
87	Effect of connection methods on lead release from galvanic corrosion. <i>Journal - American Water Works Association</i> , 2013, 105, E337.	0.2	29
88	Fate of Metals in Fly Ash During Aging in Laboratory-Scale Ash Impoundments. <i>Environmental Engineering Science</i> , 2012, 29, 1085-1091.	0.8	4
89	Impact of galvanic corrosion on lead release from aged lead service lines. <i>Water Research</i> , 2012, 46, 5049-5060.	5.3	62
90	Effect of diffusive transport limitations on UO ₂ dissolution. <i>Water Research</i> , 2012, 46, 6023-6032.	5.3	16

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91	Kinetics of the Reductive Dissolution of Lead(IV) Oxide by Iodide. <i>Environmental Science & Technology</i> , 2012, 46, 5859-5866.	4.6	19
92	Metal Release and Speciation Changes during Wet Aging of Coal Fly Ashes. <i>Environmental Science & Technology</i> , 2012, 46, 11804-11812.	4.6	46
93	Effect of Ca ²⁺ and Zn ²⁺ on UO ₂ Dissolution Rates. <i>Environmental Science & Technology</i> , 2012, 46, 2731-2737.	4.6	31
94	Molecular-Scale Structure of Uranium(VI) Immobilized with Goethite and Phosphate. <i>Environmental Science & Technology</i> , 2012, 46, 6594-6603.	4.6	93
95	Speciation of Selenium, Arsenic, and Zinc in Class C Fly Ash. <i>Energy & Fuels</i> , 2011, 25, 2980-2987.	2.5	63
96	Oxidative Dissolution of Biogenic Uraninite in Groundwater at Old Rifle, CO. <i>Environmental Science & Technology</i> , 2011, 45, 8748-8754.	4.6	66
97	Precipitation of Magnesium Carbonates as a Function of Temperature, Solution Composition, and Presence of a Silicate Mineral Substrate. <i>Environmental Engineering Science</i> , 2011, 28, 881-889.	0.8	34
98	Uranium speciation and stability after reductive immobilization in aquifer sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6497-6510.	1.6	112
99	Effects of water chemistry on arsenic removal from drinking water by electrocoagulation. <i>Water Research</i> , 2011, 45, 384-392.	5.3	208
100	Effects of flow and water chemistry on lead release rates from pipe scales. <i>Water Research</i> , 2011, 45, 6525-6534.	5.3	90
101	U(VI) reduction by Fe(II) on hematite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3741-3754.	0.8	22
102	Speciation-Dependent Kinetics of Uranium(VI) Bioreduction. <i>Geomicrobiology Journal</i> , 2011, 28, 396-409.	1.0	31
103	Formation of Lead(IV) Oxides from Lead(II) Compounds. <i>Environmental Science & Technology</i> , 2010, 44, 8950-8956.	4.6	54
104	Impact of Chlorine Disinfectants on Dissolution of the Lead Corrosion Product PbO ₂ . <i>Environmental Science & Technology</i> , 2010, 44, 7082-7088.	4.6	41
105	Impact of phosphate on U(VI) immobilization in the presence of goethite. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6324-6343.	1.6	93
106	Effects of pH and Carbonate Concentration on Dissolution Rates of the Lead Corrosion Product PbO ₂ . <i>Environmental Science & Technology</i> , 2010, 44, 1093-1099.	4.6	53
107	Effect of Mn(II) on the Structure and Reactivity of Biogenic Uraninite. <i>Environmental Science & Technology</i> , 2009, 43, 6541-6547.	4.6	32
108	Comparative dissolution kinetics of biogenic and chemogenic uraninite under oxidizing conditions in the presence of carbonate. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6065-6083.	1.6	98

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109	Nanoscale Size Effects on Uranium(VI) Adsorption to Hematite. <i>Environmental Science & Technology</i> , 2009, 43, 1373-1378.	4.6	133
110	Indirect UO ₂ Oxidation by Mn(II)-oxidizing Spores of <i>Bacillus</i> sp. Strain SG-1 and the Effect of U and Mn Concentrations. <i>Environmental Science & Technology</i> , 2008, 42, 8709-8714.	4.6	45
111	Individual and Competitive Adsorption of Arsenate and Phosphate To a High-Surface-Area Iron Oxide-Based Sorbent. <i>Environmental Science & Technology</i> , 2008, 42, 147-152.	4.6	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. <i>Progress in Solid State Chemistry</i> , 2008, 36, 1-133.	3.9	58
113	Effects of water chemistry and flow rate on arsenate removal by adsorption to an iron oxide-based sorbent. <i>Water Research</i> , 2008, 42, 4629-4636.	5.3	61
114	Microbial Reduction of Fe(III) in Hematite Nanoparticles by <i>Geobacter sulfurreducens</i> . <i>Environmental Science & Technology</i> , 2008, 42, 6526-6531.	4.6	65
115	Dissolution of Biogenic and Synthetic UO ₂ under Varied Reducing Conditions. <i>Environmental Science & Technology</i> , 2008, 42, 5600-5606.	4.6	91
116	Evaluation of Nanostructured Sorbents in Differential Bed Reactors for Elemental Mercury Capture. <i>Environmental Engineering Science</i> , 2008, 25, 1061-1070.	0.8	14
117	Immobilization of Lead with Nanocrystalline Carbonated Apatite Present in Fish Bone. <i>Environmental Engineering Science</i> , 2008, 25, 725-736.	0.8	36
118	Evaluation of chemical indicators for tracking and apportionment of phosphorus sources to Table Rock Lake in Southwest Missouri, USA. <i>Water Research</i> , 2007, 41, 1525-1533.	5.3	2
119	Effects of Particle Size and Crystalline Phase on Lead Adsorption to Titanium Dioxide Nanoparticles. <i>Environmental Engineering Science</i> , 2007, 24, 85-95.	0.8	147
120	Equilibrium Solubility and Dissolution Rate of the Lead Phosphate Chloropyromorphite. <i>Environmental Science & Technology</i> , 2007, 41, 8050-8055.	4.6	61
121	Evaluation of a Sequential Extraction Process Used for Determining Mercury Binding Mechanisms to Coal Combustion Byproducts. <i>Journal of the Air and Waste Management Association</i> , 2007, 57, 856-867.	0.9	29
122	Forsterite dissolution and magnesite precipitation at conditions relevant for deep saline aquifer storage and sequestration of carbon dioxide. <i>Chemical Geology</i> , 2005, 217, 257-276.	1.4	322
123	Influence of Dissolved Sodium and Cesium on Uranyl Oxide Hydrate Solubility. <i>Environmental Science & Technology</i> , 2004, 38, 171-179.	4.6	41
124	Equilibrium and kinetic aspects of soddyite dissolution and secondary phase precipitation in aqueous suspension. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3235-3245.	1.6	25
125	Time Scales for Sorption/Desorption and Surface Precipitation of Uranyl on Goethite. <i>Environmental Science & Technology</i> , 2001, 35, 3332-3337.	4.6	125
126	Copper Complexation with the Mellitic Acid Series. <i>Journal of Solution Chemistry</i> , 1998, 27, 89-105.	0.6	13