Peggy A O'day

List of Publications by Year
in descending order

81 papers	4,984 citations	126907 33 h-index	88630 70 g-index
83 all docs	83 docs citations	83 times ranked	4771 citing authors

#	Article	IF	Citations
1	Iron Speciation in Respirable Particulate Matter and Implications for Human Health. Environmental Science & Technology, 2022, 56, 7006-7016.	10.0	9
2	Critical review of mercury methylation and methylmercury demethylation rate constants in aquatic sediments for biogeochemical modeling. Critical Reviews in Environmental Science and Technology, 2022, 52, 4353-4378.	12.8	16
3	Effects of flow on uranium speciation in soils impacted by acidic waste fluids. Journal of Environmental Radioactivity, 2022, 251-252, 106955.	1.7	0
4	Effects of mercury, organic carbon, and microbial inhibition on methylmercury cycling at the profundal sediment-water interface of a sulfate-rich hypereutrophic reservoir. Environmental Pollution, 2021, 268, 115853.	7.5	13
5	Iron speciation in particulate matter (PM2.5) from urban Los Angeles using spectro-microscopy methods. Atmospheric Environment, 2021, 245, 117988.	4.1	16
6	Phosphate controls uranium release from acidic waste-weathered Hanford sediments. Journal of Hazardous Materials, 2021, 416, 126240.	12.4	9
7	Evaluation of Manganese Oxide Amendments for Mercury Remediation in Contaminated Aquatic Sediments. ACS ES&T Engineering, 2021, 1, 1688-1697.	7.6	2
8	Dissolved Carbonate and pH Control the Dissolution of Uranyl Phosphate Minerals in Flow-Through Porous Media. Environmental Science & Technology, 2020, 54, 6031-6042.	10.0	11
9	Anaerobic Dissolution Rates of U(IV)-Oxide by Abiotic and Nitrate-Dependent Bacterial Pathways. Environmental Science & Technology, 2020, 54, 8010-8021.	10.0	6
10	Phosphorus Speciation in Atmospherically Deposited Particulate Matter and Implications for Terrestrial Ecosystem Productivity. Environmental Science & Technology, 2020, 54, 4984-4994.	10.0	8
11	Gibbsite (100) and Kaolinite (100) Sorption of Cadmium(II): A Density Functional Theory and XANES Study of Structures and Energies. Journal of Physical Chemistry A, 2019, 123, 6319-6333.	2.5	9
12	Surface characterization and chemical speciation of adsorbed iron(<scp>iii</scp>) on oxidized carbon nanoparticles. Environmental Sciences: Processes and Impacts, 2019, 21, 548-563.	3.5	4
13	Uranium speciation in acid waste-weathered sediments: The role of aging and phosphate amendments. Applied Geochemistry, 2018, 89, 109-120.	3.0	17
14	Manganese(<scp>iv</scp>) oxide amendments reduce methylmercury concentrations in sediment porewater. Environmental Sciences: Processes and Impacts, 2018, 20, 1746-1760.	3.5	17
15	Characterization of manganese oxide amendments for <i>in situ</i> remediation of mercury-contaminated sediments. Environmental Sciences: Processes and Impacts, 2018, 20, 1761-1773.	3.5	9
16	Ambient carbon nanoparticles activated Nrf2 signaling through adsorbed iron or quinones. Free Radical Biology and Medicine, 2018, 128, S122.	2.9	3
17	Delayed Nrf2-regulated antioxidant gene induction in response to silica nanoparticles. Free Radical Biology and Medicine, 2017, 108, 311-319.	2.9	31
18	Rates and mechanisms of uranyl oxyhydroxide mineral dissolution. Geochimica Et Cosmochimica Acta, 2017, 207, 298-321.	3.9	12

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19	Uranium Release from Acidic Weathered Hanford Sediments: Single-Pass Flow-Through and Column Experiments. Environmental Science & Technology, 2017, 51, 11011-11019.	10.0	15
20	Mechanism of Hg(II) immobilization in sediments by sulfate-cement amendment. Applied Geochemistry, 2016, 67, 68-80.	3.0	4
21	Combining single-particle inductively coupled plasma mass spectrometry and X-ray absorption spectroscopy to evaluate the release of colloidal arsenic from environmental samples. Analytical and Bioanalytical Chemistry, 2016, 408, 5125-5135.	3.7	16
22	Arsenic speciation in the dispersible colloidal fraction of soils from a mine-impacted creek. Journal of Hazardous Materials, 2015, 286, 30-40.	12.4	27
23	Mineral transformation controls speciation and pore-fluid transmission of contaminants in waste-weathered Hanford sediments. Geochimica Et Cosmochimica Acta, 2014, 141, 487-507.	3.9	7
24	Influence of Phosphate and Silica on U(VI) Precipitation from Acidic and Neutralized Wastewaters. Environmental Science & Technology, 2014, 48, 6097-6106.	10.0	59
25	A Combined Siteâ€Specific Metals Sorption and Transport Model for Intact Soil Columns. Vadose Zone Journal, 2013, 12, 1-11.	2.2	5
26	" Genome-enabled studies of anaerobic, nitrate-dependent iron oxidation in the chemolithoautotrophic bacterium Thiobacillus denitrificans". Frontiers in Microbiology, 2013, 4, 249.	3.5	54
27	Geochemical Weathering Increases Lead Bioaccessibility in Semi-Arid Mine Tailings. Environmental Science & Technology, 2012, 46, 5834-5841.	10.0	48
28	Immobilization of Hg(II) by Coprecipitation in Sulfate-Cement Systems. Environmental Science & Technology, 2012, 46, 6767-6775.	10.0	15
29	Arsenic, Copper, and Zinc Leaching through Preferential Flow in Miningâ€Impacted Soils. Soil Science Society of America Journal, 2012, 76, 449-462.	2.2	16
30	Reactive Transport Modeling of Subaqueous Sediment Caps and Implications for the Long-Term Fate of Arsenic, Mercury, and Methylmercury. Aquatic Geochemistry, 2012, 18, 297-326.	1.3	25
31	Changes in Zinc Speciation with Mine Tailings Acidification in a Semiarid Weathering Environment. Environmental Science & Technology, 2011, 45, 7166-7172.	10.0	19
32	Trace contaminant concentration affects mineral transformation and pollutant fate in hydroxide-weathered Hanford sediments. Journal of Hazardous Materials, 2011, 197, 119-127.	12.4	21
33	Cesium and strontium incorporation into zeolite-type phases during homogeneous nucleation from caustic solutions. American Mineralogist, 2011, 96, 1809-1820.	1.9	11
34	Role of Coupled Redox Transformations in the Mobilization and Sequestration of Arsenic. ACS Symposium Series, 2011, , 463-476.	0.5	7
35	Mineral-Based Amendments for Remediation. Elements, 2010, 6, 375-381.	0.5	60
36	Geochemical processes controlling arsenic mobility in groundwater: A case study of arsenic mobilization and natural attenuation. Applied Geochemistry, 2010, 25, 69-80.	3.0	30

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37	MNA as a Remedy for Arsenic Mobilized by Anthropogenic Inputs of Organic Carbon. Ground Water Monitoring and Remediation, 2009, 29, 84-92.	0.8	18
38	Natural Attenuation of Arsenic by Sediment Sorption and Oxidation. Environmental Science & Technology, 2009, 43, 4253-4259.	10.0	24
39	A surface complexation and ion exchange model of Pb and Cd competitive sorption on natural soils. Geochimica Et Cosmochimica Acta, 2009, 73, 543-558.	3.9	99
40	Speciation and natural attenuation of arsenic and iron in a tidally influenced shallow aquifer. Geochimica Et Cosmochimica Acta, 2009, 73, 5528-5553.	3.9	80
41	Geochemical and hydrologic controls on the mobilization of arsenic derived from herbicide application. Applied Geochemistry, 2009, 24, 2152-2162.	3.0	22
42	Surface complexation model for strontium sorption to amorphous silica and goethite. Geochemical Transactions, 2008, 9, 2.	0.7	45
43	A Gel Probe Equilibrium Sampler for Measuring Arsenic Porewater Profiles and Sorption Gradients in Sediments: I. Laboratory Development. Environmental Science & Technology, 2008, 42, 497-503.	10.0	16
44	Silicon control of strontium and cesium partitioning in hydroxide-weathered sediments. Geochimica Et Cosmochimica Acta, 2008, 72, 2024-2047.	3.9	54
45	A Gel Probe Equilibrium Sampler for Measuring Arsenic Porewater Profiles and Sorption Gradients in Sediments: II. Field Application to Haiwee Reservoir Sediment. Environmental Science & Technology, 2008, 42, 504-510.	10.0	25
46	Arsenic sequestration by sorption processes in high-iron sediments. Geochimica Et Cosmochimica Acta, 2007, 71, 5782-5803.	3.9	146
47	Solid-State NMR Identification and Quantification of Newly Formed Aluminosilicate Phases in Weathered Kaolinite Systems. Journal of Physical Chemistry B, 2006, 110, 723-732.	2.6	19
48	Strontium Speciation during Reaction of Kaolinite with Simulated Tank-Waste Leachate:Â Bulk and Microfocused EXAFS Analysis. Environmental Science & Technology, 2006, 40, 2608-2614.	10.0	32
49	Chemistry and Mineralogy of Arsenic. Elements, 2006, 2, 77-83.	0.5	200
50	Colonization of nascent, deep-sea hydrothermal vents by a novel Archaeal and Nanoarchaeal assemblage. Environmental Microbiology, 2006, 8, 114-125.	3.8	81
51	Advances in Arsenic Research: Introductory Remarks. ACS Symposium Series, 2005, , 1-5.	0.5	1
52	Arsenic Removal by Zero-Valent Iron: A Field Study of Rates, Mechanisms, and Long-Term Performance. ACS Symposium Series, 2005, , 344-360.	0.5	4
53	Arsenic speciation in synthetic jarosite. Chemical Geology, 2005, 215, 473-498.	3.3	140
54	X-ray absorption spectroscopic study of Fe reference compounds for the analysis of natural sediments. American Mineralogist, 2004, 89, 572-585.	1.9	210

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55	The influence of sulfur and iron on dissolved arsenic concentrations in the shallow subsurface under changing redox conditions. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13703-13708.	7.1	406
56	Image optimization and analysis of synchrotron X-ray computed microtomography (CÎ¼T) data. Computers and Geosciences, 2003, 29, 823-836.	4.2	29
57	Deposition and Fate of Arsenic in Iron- and Arsenic-Enriched Reservoir Sediments. Environmental Science & Technology, 2002, 36, 381-386.	10.0	120
58	Understanding Soluble Arsenate Removal Kinetics by Zerovalent Iron Media. Environmental Science & Technology, 2002, 36, 2074-2081.	10.0	112
59	Speciation and fate of trace metals in estuarine sediments under reduced and oxidized conditions, Seaplane Lagoon, Alameda Naval Air Station (USA). Geochemical Transactions, 2002, 3, 1.	0.7	47
60	In Situ Spectroscopic and Solution Analyses of the Reductive Dissolution of MnO2 by Fe(II). Environmental Science & Technology, 2001, 35, 1157-1163.	10.0	56
61	Electrochemical and Spectroscopic Study of Arsenate Removal from Water Using Zero-Valent Iron Media. Environmental Science & Technology, 2001, 35, 2026-2032.	10.0	219
62	Experimental abiotic synthesis of methanol in seafloor hydrothermal systems during diking events. Chemical Geology, 2001, 180, 129-139.	3.3	25
63	Processes of Nickel and Cobalt Uptake by a Manganese Oxide Forming Sediment in Pinal Creek, Globe Mining District, Arizona. Environmental Science & Technology, 2001, 35, 4719-4725.	10.0	117
64	Pyroclastic deposits within the East Greenland Tertiary flood basalts. Journal of the Geological Society, 2001, 158, 269-284.	2.1	35
65	X-Ray Absorption Spectroscopy of Strontium(II) Coordination. Journal of Colloid and Interface Science, 2000, 222, 198-212.	9.4	141
66	X-Ray Absorption Spectroscopy of Strontium(II) Coordination. Journal of Colloid and Interface Science, 2000, 222, 184-197.	9.4	84
67	Arsenic speciation in pyrite and secondary weathering phases, Mother Lode Gold District, Tuolumne County, California. Applied Geochemistry, 2000, 15, 1219-1244.	3.0	377
68	Metal Speciation and Bioavailability in Contaminated Estuary Sediments, Alameda Naval Air Station, California. Environmental Science & Technology, 2000, 34, 3665-3673.	10.0	82
69	Production of CO2 and H2 by Diking-Eruptive Events at Mid-Ocean Ridges: Implications for Abiotic Organic Synthesis and Global Geochemical Cycling. International Geology Review, 2000, 42, 673-683.	2.1	33
70	A web-based library of XAFS data on model compounds. Journal of Synchrotron Radiation, 1999, 6, 276-277.	2.4	21
71	Molecular environmental geochemistry. Reviews of Geophysics, 1999, 37, 249-274.	23.0	63
72	Determination of trace and platinum-group elements in high ionic-strength volcanic fluids by sector-field inductively coupled plasma mass spectrometry (ICP-MS). Fresenius' Journal of Analytical Chemistry, 1998, 362, 457-464.	1.5	21

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73	Rockâ˜Water Interactions Controlling Zinc, Cadmium, and Lead Concentrations in Surface Waters and Sediments, U.S. Tri-State Mining District. 1. Molecular Identification Using X-ray Absorption Spectroscopy. Environmental Science & Technology, 1998, 32, 943-955.	10.0	124
74	Rockâ˜Water Interactions Controlling Zinc, Cadmium, and Lead Concentrations in Surface Waters and Sediments, U.S. Tri-State Mining District. 2. Geochemical Interpretation. Environmental Science & Technology, 1998, 32, 956-965.	10.0	93
75	X-ray absorption spectroscopy of Co(II) sorption complexes on quartz (Î±-SiO2) and rutile (TiO2). Geochimica Et Cosmochimica Acta, 1996, 60, 2515-2532.	3.9	103
76	Molecular Structure and Binding Sites of Cobalt(II) Surface Complexes on Kaolinite from X-ray Absorption Spectroscopy. Clays and Clay Minerals, 1994, 42, 337-355.	1.3	113
77	X-Ray Absorption Spectroscopy of Cobalt(II) Multinuclear Surface Complexes and Surface Precipitates on Kaolinite. Journal of Colloid and Interface Science, 1994, 165, 269-289.	9.4	155
78	Extended X-ray Absorption Fine Structure (EXAFS) Analysis of Disorder and Multiple-Scattering in Complex Crystalline Solids. Journal of the American Chemical Society, 1994, 116, 2938-2949.	13.7	283
79	Evidence for multinuclear metal-ion complexes at solid/water interfaces from X-ray absorption spectroscopy. Nature, 1990, 348, 528-531.	27.8	160
80	Crustal evolution revisited: Reply to Comments by S.M. Mclennan and S.R. Taylor, and J. Veizer, on â€œThe Archean-Proterozoic transition: Evidence from the geochemistry of metasedimentary rocks of Guyana and Montanaâ€• Geochimica Et Cosmochimica Acta, 1988, 52, 793-795.	3.9	9
81	The Archean-Proterozoic transition: Evidence from the geochemistry of metasedimentary rocks of Guyana and Montana. Geochimica Et Cosmochimica Acta, 1986, 50, 2125-2141.	3.9	109