

Caroline L Peacock

List of Publications by Year in descending order

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67
papers

4,017
citations

101543

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62
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all docs

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docs citations

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times ranked

4069
citing authors

#	ARTICLE	IF	CITATIONS
1	Zn stable isotope fractionation during adsorption onto todorokite: A molecular perspective from X-ray absorption spectroscopy and density functional theory. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 327, 116-136.	3.9	12
2	Mineralogical control on methylotrophic methanogenesis and implications for cryptic methane cycling in marine surface sediment. <i>Nature Communications</i> , 2022, 13, 2722.	12.8	8
3	Effect and fate of Ni during aging and thermal-induced phyllo-manganate-to-tectomanganate transformation. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 333, 200-215.	3.9	2
4	The role and fate of organic carbon during aging of ferrihydrite. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 335, 339-355.	3.9	20
5	Characteristics and mechanisms of Pb(II) sorption onto Fe-rich waste water treatment residue (WTR): A potential sustainable Pb immobilisation technology for soils. <i>Journal of Hazardous Materials</i> , 2021, 402, 123433.	12.4	14
6	Metagenomic and ^{14}C tracing evidence for autotrophic microbial CO_2 fixation in paddy soils. <i>Environmental Microbiology</i> , 2021, 23, 924-933.	3.8	13
7	Selective retention of extracellular polymeric substances induced by adsorption to and coprecipitation with ferrihydrite. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 299, 15-34.	3.9	27
8	Combining local knowledge and soil science for integrated soil health assessments in conservation agriculture systems. <i>Journal of Environmental Management</i> , 2021, 286, 112192.	7.8	24
9	Technical note: Uncovering the influence of methodological variations on the extractability of iron-bound organic carbon. <i>Biogeosciences</i> , 2021, 18, 3409-3419.	3.3	10
10	Cadmium Isotope Fractionation during Adsorption and Substitution with Iron (Oxyhydr)oxides. <i>Environmental Science & Technology</i> , 2021, 55, 11601-11611.	10.0	58
11	Carboxyl-richness controls organic carbon preservation during coprecipitation with iron (oxyhydr)oxides in the natural environment. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	39
12	Outer Membrane <i>c</i> -Type Cytochromes OmcA and MtrC Play Distinct Roles in Enhancing the Attachment of <i>Shewanella oneidensis</i> MR-1 Cells to Goethite. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	36
13	Investigating the Effectiveness of Phosphonate Additives in Hindering the Calcium Sulfate Dihydrate Scale Formation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14970-14980.	3.7	11
14	Experimental evaluation of the extractability of iron bound organic carbon in sediments as a function of carboxyl content. <i>Chemical Geology</i> , 2020, 556, 119853.	3.3	17
15	Natural organic matter decreases uptake of W(VI), and reduces W(VI) to W(V), during adsorption to ferrihydrite. <i>Chemical Geology</i> , 2020, 540, 119567.	3.3	31
16	Adsorption of Cr(VI) on Al-substituted hematites and its reduction and retention in the presence of Fe ²⁺ under conditions similar to subsurface soil environments. <i>Journal of Hazardous Materials</i> , 2020, 390, 122014.	12.4	43
17	Soil Functions: Connecting Earth's Critical Zone. <i>Annual Review of Earth and Planetary Sciences</i> , 2019, 47, 333-359.	11.0	78
18	Extraction of extracellular polymeric substances (EPS) from red soils (Ultisols). <i>Soil Biology and Biochemistry</i> , 2019, 135, 283-285.	8.8	28

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19	Investigating Ocean Deoxygenation During the PETM Through the Cr Isotopic Signature of Foraminifera. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 917-929.	2.9	14
20	Arsenite and arsenate binding to ferrihydrite organo-mineral coprecipitate: Implications for arsenic mobility and fate in natural environments. <i>Chemosphere</i> , 2019, 224, 103-110.	8.2	113
21	Phosphorus cycling in Lake Cadagno, Switzerland: A low sulfate euxinic ocean analogue. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 251, 116-135.	3.9	51
22	Effectiveness of Green Additives vs Poly(acrylic acid) in Inhibiting Calcium Sulfate Dihydrate Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1561-1569.	3.7	35
23	Transformation of Co-containing birnessite to todorokite: Effect of Co on the transformation and implications for Co mobility. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 21-40.	3.9	38
24	A universal adsorption behaviour for Cu uptake by iron (hydr)oxide organo-mineral composites. <i>Chemical Geology</i> , 2018, 479, 22-35.	3.3	39
25	In situ arsenic oxidation and sorption by a Fe-Mn binary oxide waste in soil. <i>Journal of Hazardous Materials</i> , 2018, 342, 724-731.	12.4	70
26	Competitive binding of Cd, Ni and Cu on goethite organo-mineral composites made with soil bacteria. <i>Environmental Pollution</i> , 2018, 243, 444-452.	7.5	27
27	Binding of Cd by ferrihydrite organo-mineral composites: Implications for Cd mobility and fate in natural and contaminated environments. <i>Chemosphere</i> , 2018, 207, 404-412.	8.2	113
28	EPS adsorption to goethite: Molecular level adsorption mechanisms using 2D correlation spectroscopy. <i>Chemical Geology</i> , 2018, 494, 127-135.	3.3	30
29	Formation of Silica-Lysozyme Composites Through Co-Precipitation and Adsorption. <i>Frontiers in Materials</i> , 2018, 5, .	2.4	11
30	A universal uptake mechanism for cobalt(II) on soil constituents: Ferrihydrite, kaolinite, humic acid, and organo-mineral composites. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 238, 270-291.	3.9	26
31	Towards a better understanding of the aggregation mechanisms of iron (hydr)oxide nanoparticles interacting with extracellular polymeric substances: Role of pH and electrolyte solution. <i>Science of the Total Environment</i> , 2018, 645, 372-379.	8.0	22
32	Understanding amorphous silica scaling under well-constrained conditions inside geothermal pipelines. <i>Geothermics</i> , 2018, 76, 231-241.	3.4	31
33	Mechanism of Enhanced Strontium Uptake into Calcite via an Amorphous Calcium Carbonate Crystallization Pathway. <i>Crystal Growth and Design</i> , 2017, 17, 1214-1223.	3.0	69
34	The Effects of Inorganic Additives on the Nucleation and Growth Kinetics of Calcium Sulfate Dihydrate Crystals. <i>Crystal Growth and Design</i> , 2017, 17, 582-589.	3.0	60
35	Cd(II) Sorption on Montmorillonite-Humic acid-Bacteria Composites. <i>Scientific Reports</i> , 2016, 6, 19499.	3.3	49
36	Release of Ni from birnessite during transformation of birnessite to todorokite: Implications for Ni cycling in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 189, 158-183.	3.9	54

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37	EXAFS Study of Sr sorption to Illite, Goethite, Chlorite, and Mixed Sediment under Hyperalkaline Conditions. <i>Langmuir</i> , 2016, 32, 2937-2946.	3.5	48
38	Effect of solution composition on the recrystallization of kaolinite to feldspathoids in hyperalkaline conditions: limitations of pertechnetate incorporation by ion competition effects. <i>Mineralogical Magazine</i> , 2015, 79, 1379-1388.	1.4	4
39	Impact of the Diamond Light Source on research in Earth and environmental sciences: current work and future perspectives. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20130151.	3.4	9
40	Biogenic precipitation of manganese oxides and enrichment of heavy metals at acidic soil pH. <i>Chemical Geology</i> , 2015, 402, 6-17.	3.3	72
41	Towards a mechanistic understanding of carbon stabilization in manganese oxides. <i>Nature Communications</i> , 2015, 6, 7628.	12.8	102
42	Limited Zn and Ni mobility during simulated iron formation diagenesis. <i>Chemical Geology</i> , 2015, 402, 30-39.	3.3	24
43	Caesium incorporation and retention in illite interlayers. <i>Applied Clay Science</i> , 2015, 108, 128-134.	5.2	155
44	The Archean Nickel Famine Revisited. <i>Astrobiology</i> , 2015, 15, 804-815.	3.0	55
45	Mobilisation of arsenic from bauxite residue (red mud) affected soils: Effect of pH and redox conditions. <i>Applied Geochemistry</i> , 2014, 51, 268-277.	3.0	50
46	Ionic strength and pH dependent multi-site sorption of Cs onto a micaceous aquifer sediment. <i>Applied Geochemistry</i> , 2014, 40, 32-42.	3.0	76
47	Solid-phase phosphorus speciation in Saharan BodÃ© Depression dusts and source sediments. <i>Chemical Geology</i> , 2014, 384, 16-26.	3.3	37
48	Selenium Speciation in Framboidal and Euhedral Pyrites in Shales. <i>Environmental Science & Technology</i> , 2014, 48, 8972-8979.	10.0	15
49	Nucleation and growth of todorokite from birnessite: Implications for trace-metal cycling in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 144, 109-125.	3.9	98
50	Carboxylic acids: effective inhibitors for calcium sulfate precipitation?. <i>Mineralogical Magazine</i> , 2014, 78, 1465-1472.	1.4	55
51	Microstructural and chemical variation in silica-rich precipitates at the HellisheiÃ³ geothermal power plant. <i>Mineralogical Magazine</i> , 2014, 78, 1381-1389.	1.4	18
52	Modelling Cu(II) adsorption to ferrihydrite and ferrihydrite-bacteria composites: Deviation from additive adsorption in the composite sorption system. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 104, 148-164.	3.9	80
53	Towards an understanding of thallium isotope fractionation during adsorption to manganese oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 117, 252-265.	3.9	95
54	Behavior of Aluminum, Arsenic, and Vanadium during the Neutralization of Red Mud Leachate by HCl, Gypsum, or Seawater. <i>Environmental Science & Technology</i> , 2013, 47, 6527-6535.	10.0	115

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55	Oxidative scavenging of thallium by birnessite: Explanation for thallium enrichment and stable isotope fractionation in marine ferromanganese precipitates. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 297-313.	3.9	160
56	Adsorption of Cu(II) to ferrihydrite and ferrihydrite-bacteria composites: Importance of the carboxyl group for Cu mobility in natural environments. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 203-219.	3.9	100
57	Speciation of Arsenic, Chromium, and Vanadium in Red Mud Samples from the Ajka Spill Site, Hungary. <i>Environmental Science & Technology</i> , 2012, 46, 3085-3092.	10.0	138
58	Adsorption of Cu(II) to <i>Bacillus subtilis</i> : A pH-dependent EXAFS and thermodynamic modelling study. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6705-6719.	3.9	44
59	Surface complexation of Cu on birnessite (γ -MnO ₂): Controls on Cu in the deep ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6721-6730.	3.9	91
60	Physiochemical controls on the crystal-chemistry of Ni in birnessite: Genetic implications for ferromanganese precipitates. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3568-3578.	3.9	85
61	Surface complexation of U(VI) on goethite (α -FeOOH). <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 298-310.	3.9	186
62	Sorption of Ni by birnessite: Equilibrium controls on Ni in seawater. <i>Chemical Geology</i> , 2007, 238, 94-106.	3.3	165
63	Crystal-chemistry of Ni in marine ferromanganese crusts and nodules. <i>American Mineralogist</i> , 2007, 92, 1087-1092.	1.9	91
64	Geochemical proxies for biogeochemical cycling and ocean anoxia. , 2007, , 121-172.		0
65	Surface complexation model for multisite adsorption of copper(II) onto kaolinite. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3733-3745.	3.9	81
66	Vanadium(V) adsorption onto goethite (α -FeOOH) at pH 1.5 to 12: a surface complexation model based on ab initio molecular geometries and EXAFS spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1723-1733.	3.9	240
67	Copper(II) sorption onto goethite, hematite and lepidocrocite: a surface complexation model based on ab initio molecular geometries and EXAFS spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2623-2637.	3.9	194