

Jon Chorover

List of Publications by Year in descending order

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126
papers

6,320
citations

71102

41
h-index

74163

75
g-index

129
all docs

129
docs citations

129
times ranked

7501
citing authors

#	ARTICLE	IF	CITATIONS
1	Linking litter calcium, earthworms and soil properties: a common garden test with 14 tree species. <i>Ecology Letters</i> , 2005, 8, 811-818.	6.4	586
2	The chemistry of pedogenic thresholds. <i>Geoderma</i> , 2001, 100, 321-353.	5.1	358
3	Reaction of forest floor organic matter at goethite, birnessite and smectite surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 95-109.	3.9	309
4	ATR-FTIR Spectroscopy Reveals Bond Formation During Bacterial Adhesion to Iron Oxide. <i>Langmuir</i> , 2006, 22, 8492-8500.	3.5	307
5	Soil Biogeochemical Processes within the Critical Zone. <i>Elements</i> , 2007, 3, 321-326.	0.5	224
6	Hydrological partitioning in the critical zone: Recent advances and opportunities for developing transferable understanding of water cycle dynamics. <i>Water Resources Research</i> , 2015, 51, 6973-6987.	4.2	189
7	Surface charge evolution of mineral-organic complexes during pedogenesis in Hawaiian basalt. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4859-4876.	3.9	187
8	Colloid Mobilization During Soil Iron Redox Oscillations. <i>Environmental Science & Technology</i> , 2006, 40, 5743-5749.	10.0	163
9	Rapid abiotic transformation of nitrate in an acid forest soil. <i>Biogeochemistry</i> , 2001, 54, 131-146.	3.5	157
10	Adsorption of perfluorooctanoic acid and perfluorooctanesulfonic acid to iron oxide surfaces as studied by flow-through ATR-FTIR spectroscopy. <i>Environmental Chemistry</i> , 2012, 9, 148.	1.5	156
11	Surface charge characteristics of kaolinitic tropical soils. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 875-884.	3.9	122
12	How Water, Carbon, and Energy Drive Critical Zone Evolution: The Jemez-Santa Catalina Critical Zone Observatory. <i>Vadose Zone Journal</i> , 2011, 10, 884-899.	2.2	111
13	An open system framework for integrating critical zone structure and function. <i>Biogeochemistry</i> , 2011, 102, 15-29.	3.5	103
14	Phytostabilization of mine tailings using compost-assisted direct planting: Translating greenhouse results to the field. <i>Science of the Total Environment</i> , 2016, 565, 451-461.	8.0	102
15	Effect of arbuscular mycorrhizal fungi on plant biomass and the rhizosphere microbial community structure of mesquite grown in acidic lead/zinc mine tailings. <i>Science of the Total Environment</i> , 2011, 409, 1009-1016.	8.0	100
16	Solution chemistry profiles of mixed-conifer forests before and after fire. <i>Biogeochemistry</i> , 1994, 26, 115-144.	3.5	97
17	Rare earth element release from phosphate minerals in the presence of organic acids. <i>Chemical Geology</i> , 2010, 278, 1-14.	3.3	96
18	Designing a network of critical zone observatories to explore the living skin of the terrestrial Earth. <i>Earth Surface Dynamics</i> , 2017, 5, 841-860.	2.4	92

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19	Effect of silicic acid on arsenate and arsenite retention mechanisms on 6-L ferrihydrite: A spectroscopic and batch adsorption approach. <i>Applied Geochemistry</i> , 2013, 38, 110-120.	3.0	84
20	Quantifying PPCP interaction with dissolved organic matter in aqueous solution: Combined use of fluorescence quenching and tandem mass spectrometry. <i>Water Research</i> , 2012, 46, 943-954.	11.3	83
21	Surficial weathering of iron sulfide mine tailings under semi-arid climate. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 141, 240-257.	3.9	79
22	Coevolution of nonlinear trends in vegetation, soils, and topography with elevation and slope aspect: A case study in the sky islands of southern Arizona. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 741-758.	2.8	76
23	Interactions of Carbamazepine in Soil: Effects of Dissolved Organic Matter. <i>Journal of Environmental Quality</i> , 2011, 40, 942-948.	2.0	75
24	Response of Key Soil Parameters during Compost-Assisted Phytostabilization in Extremely Acidic Tailings: Effect of Plant Species. <i>Environmental Science & Technology</i> , 2012, 46, 1019-1027.	10.0	73
25	Environmental factors influencing the structural dynamics of soil microbial communities during assisted phytostabilization of acid-generating mine tailings: A mesocosm experiment. <i>Science of the Total Environment</i> , 2014, 500-501, 314-324.	8.0	67
26	Rare earth elements as reactive tracers of biogeochemical weathering in forested rhyolitic terrain. <i>Chemical Geology</i> , 2015, 391, 19-32.	3.3	67
27	Toxic metal(loid) speciation during weathering of iron sulfide mine tailings under semi-arid climate. <i>Applied Geochemistry</i> , 2015, 62, 131-149.	3.0	65
28	Stream water carbon controls in seasonally snow-covered mountain catchments: impact of inter-annual variability of water fluxes, catchment aspect and seasonal processes. <i>Biogeochemistry</i> , 2014, 118, 273-290.	3.5	60
29	Critical Zone Services: Expanding Context, Constraints, and Currency beyond Ecosystem Services. <i>Vadose Zone Journal</i> , 2015, 14, vj2014.10.0142.	2.2	60
30	Influence of Phosphate and Silica on U(VI) Precipitation from Acidic and Neutralized Wastewaters. <i>Environmental Science & Technology</i> , 2014, 48, 6097-6106.	10.0	59
31	Evolution of CO ₂ during Birnessite-Induced Oxidation of ¹⁴ C-Labeled Catechol. <i>Soil Science Society of America Journal</i> , 2000, 64, 157-163.	2.2	58
32	The Role of Critical Zone Observatories in Critical Zone Science. <i>Developments in Earth Surface Processes</i> , 2015, , 15-78.	2.8	57
33	Geochemical evolution of the Critical Zone across variable time scales informs concentration-discharge relationships: The River Basin Critical Zone Observatory. <i>Water Resources Research</i> , 2017, 53, 4169-4196.	4.2	57
34	Biotransformation and Degradation of the Insensitive Munitions Compound, 3-Nitro-1,2,4-triazol-5-one, by Soil Bacterial Communities. <i>Environmental Science & Technology</i> , 2015, 49, 5681-5688.	10.0	54
35	Geochemical Weathering Increases Lead Bioaccessibility in Semi-Arid Mine Tailings. <i>Environmental Science & Technology</i> , 2012, 46, 5834-5841.	10.0	48
36	Concentration-Discharge Relations in the Critical Zone: Implications for Resolving Critical Zone Structure, Function, and Evolution. <i>Water Resources Research</i> , 2017, 53, 8654-8659.	4.2	48

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37	The Landscape Evolution Observatory: A large-scale controllable infrastructure to study coupled Earth-surface processes. <i>Geomorphology</i> , 2015, 244, 190-203.	2.6	47
38	(Bio)transformation of 2,4-dinitroanisole (DNAN) in soils. <i>Journal of Hazardous Materials</i> , 2016, 304, 214-221.	12.4	46
39	Structural Charge and Cesium Retention in a Chronosequence of Tephritic Soils. <i>Soil Science Society of America Journal</i> , 1999, 63, 169-177.	2.2	45
40	Colloids and organic matter complexation control trace metal concentration-discharge relationships in Marshall Gulch stream waters. <i>Water Resources Research</i> , 2016, 52, 7931-7944.	4.2	45
41	Leachate Chemistry of Field-Weathered Spent Mushroom Substrate. <i>Journal of Environmental Quality</i> , 2001, 30, 1699-1709.	2.0	43
42	Climatic and landscape controls on water transit times and silicate mineral weathering in the critical zone. <i>Water Resources Research</i> , 2015, 51, 6036-6051.	4.2	43
43	ATR-FTIR study of lipopolysaccharides at mineral surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 62, 188-198.	5.0	42
44	Changes in lead and zinc lability during weathering-induced acidification of desert mine tailings: Coupling chemical and micro-scale analyses. <i>Applied Geochemistry</i> , 2009, 24, 2234-2245.	3.0	42
45	Adsorption of novel insensitive munitions compounds at clay mineral and metal oxide surfaces. <i>Environmental Chemistry</i> , 2015, 12, 74.	1.5	38
46	Sequential anaerobic-aerobic biodegradation of emerging insensitive munitions compound 3-nitro-1,2,4-triazol-5-one (NTO). <i>Chemosphere</i> , 2017, 167, 478-484.	8.2	38
47	Quinoline Sorption on Kaolinite-Humic Acid Complexes. <i>Soil Science Society of America Journal</i> , 1999, 63, 850-857.	2.2	37
48	Fractionation of yttrium and holmium during basaltic soil weathering. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 119, 18-30.	3.9	37
49	Quantifying Topographic and Vegetation Effects on the Transfer of Energy and Mass to the Critical Zone. <i>Vadose Zone Journal</i> , 2015, 14, 1-16.	2.2	37
50	Artifacts Caused by Collection of Soil Solution with Passive Capillary Samplers. <i>Soil Science Society of America Journal</i> , 2000, 64, 1330-1336.	2.2	35
51	A mass-balance model to separate and quantify colloidal and solute redistributions in soil. <i>Chemical Geology</i> , 2011, 282, 113-119.	3.3	34
52	A considerable fraction of soil-respired CO ₂ is not emitted directly to the atmosphere. <i>Scientific Reports</i> , 2018, 8, 13518.	3.3	34
53	Rare earth elements (REY) sorption on soils of contrasting mineralogy and texture. <i>Environment International</i> , 2019, 128, 279-291.	10.0	34
54	Microscale Speciation of Arsenic and Iron in Ferric-Based Sorbents Subjected to Simulated Landfill Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 12992-13000.	10.0	32

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55	Mechanisms of Arsenic Sequestration by <i>Prosopis juliflora</i> during the Phytostabilization of Metalliferous Mine Tailings. <i>Environmental Science & Technology</i> , 2018, 52, 1156-1164.	10.0	32
56	Treatment impacts on temporal microbial community dynamics during phytostabilization of acid-generating mine tailings in semiarid regions. <i>Science of the Total Environment</i> , 2018, 618, 357-368.	8.0	32
57	Hillslope-scale experiment demonstrates the role of convergence during two-step saturation. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3681-3692.	4.9	31
58	Ecosystem Composition Controls the Fate of Rare Earth Elements during Incipient Soil Genesis. <i>Scientific Reports</i> , 2017, 7, 43208.	3.3	31
59	Signatures of Hydrologic Function Across the Critical Zone Observatory Network. <i>Water Resources Research</i> , 2021, 57, e2019WR026635.	4.2	31
60	Colloid Chemistry of Kaolinitic Tropical Soils. <i>Soil Science Society of America Journal</i> , 1995, 59, 1558-1564.	2.2	30
61	Incipient subsurface heterogeneity and its effect on overland flow generation – insight from a modeling study of the first experiment at the Biosphere 2 Landscape Evolution Observatory. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1873-1883.	4.9	29
62	Microtopography-mediated hydrologic environment controls elemental migration and mineral weathering in subalpine surface soils of subtropical monsoonal China. <i>Geoderma</i> , 2019, 344, 82-98.	5.1	26
63	Effect of Re-acidification on Buffalo Grass Rhizosphere and Bulk Microbial Communities During Phytostabilization of Metalliferous Mine Tailings. <i>Frontiers in Microbiology</i> , 2019, 10, 1209.	3.5	24
64	Solid-phase redistribution of rare earth elements in hillslope pedons subjected to different hydrologic fluxes. <i>Chemical Geology</i> , 2016, 426, 1-18.	3.3	23
65	Solid phase evolution in the Biosphere 2 hillslope experiment as predicted by modeling of hydrologic and geochemical fluxes. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 2273-2286.	4.9	23
66	Fractionation of Dissolved Organic Matter by (Oxy)Hydroxide-Coated Sands: Competitive Sorbate Displacement during Reactive Transport. <i>Vadose Zone Journal</i> , 2014, 13, 1-13.	2.2	22
67	Hydrologic functioning of the deep critical zone and contributions to streamflow in a high-elevation catchment: Testing of multiple conceptual models. <i>Hydrological Processes</i> , 2019, 33, 476-494.	2.6	22
68	Trace contaminant concentration affects mineral transformation and pollutant fate in hydroxide-weathered Hanford sediments. <i>Journal of Hazardous Materials</i> , 2011, 197, 119-127.	12.4	21
69	Bacterial Rhizoplane Colonization Patterns of <i>Buchloe dactyloides</i> Growing in Metalliferous Mine Tailings Reflect Plant Status and Biogeochemical Conditions. <i>Microbial Ecology</i> , 2017, 74, 853-867.	2.8	20
70	Effects of Spent Mushroom Substrate Weathering on the Chemistry of Underlying Soils. <i>Journal of Environmental Quality</i> , 2001, 30, 2127-2134.	2.0	19
71	Changes in Zinc Speciation with Mine Tailings Acidification in a Semiarid Weathering Environment. <i>Environmental Science & Technology</i> , 2011, 45, 7166-7172.	10.0	19
72	The effects of climate and landscape position on chemical denudation and mineral transformation in the Santa Catalina mountain critical zone observatory. <i>Applied Geochemistry</i> , 2011, 26, S80-S84.	3.0	19

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73	Impact of organic carbon on weathering and chemical denudation of granular basalt. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 508-526.	3.9	19
74	Oxidative Weathering Decreases Bioaccessibility of Toxic Metal(loid)s in PM ₁₀ Emissions From Sulfide Mine Tailings. <i>GeoHealth</i> , 2018, 2, 118-138.	4.0	19
75	Arsenic and iron speciation and mobilization during phytostabilization of pyritic mine tailings. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 286, 306-323.	3.9	19
76	Iron-activated persulfate oxidation degrades aqueous Perfluorooctanoic acid (PFOA) at ambient temperature. <i>Chemosphere</i> , 2021, 281, 130824.	8.2	19
77	Subsurface Pore Water Contributions to Stream Concentration-Discharge Relations Across a Snowmelt Hydrograph. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	18
78	Uranium speciation in acid waste-weathered sediments: The role of aging and phosphate amendments. <i>Applied Geochemistry</i> , 2018, 89, 109-120.	3.0	17
79	Distinct stores and the routing of water in the deep critical zone of a snow-dominated volcanic catchment. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4661-4683.	4.9	17
80	Strong slope-aspect control of regolith thickness by bedrock foliation. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 2998-3010.	2.5	17
81	Impacts of Sampling Dissolved Organic Matter with Passive Capillary Wicks Versus Aqueous Soil Extraction. <i>Soil Science Society of America Journal</i> , 2012, 76, 2019-2030.	2.2	16
82	Microbial toxicity and characterization of DNAN (bio)transformation product mixtures. <i>Chemosphere</i> , 2016, 154, 499-506.	8.2	16
83	Abiotic reduction of insensitive munition compounds by sulfate green rust. <i>Environmental Chemistry</i> , 2018, 15, 259.	1.5	16
84	Adsorption and oxidation of 3-nitro-1,2,4-triazole-5-one (NTO) and its transformation product (3-amino-1,2,4-triazole-5-one, ATO) at ferrihydrite and birnessite surfaces. <i>Environmental Pollution</i> , 2018, 240, 200-208.	7.5	16
85	Assessing Microbial Community Patterns During Incipient Soil Formation From Basalt. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 941-958.	3.0	16
86	Uranium Release from Acidic Weathered Hanford Sediments: Single-Pass Flow-Through and Column Experiments. <i>Environmental Science & Technology</i> , 2017, 51, 11011-11019.	10.0	15
87	Oxidation of reduced daughter products from 2,4-dinitroanisole (DNAN) by Mn(IV) and Fe(III) oxides. <i>Chemosphere</i> , 2018, 201, 790-798.	8.2	14
88	Wet-dry cycles impact DOM retention in subsurface soils. <i>Biogeosciences</i> , 2018, 15, 821-832.	3.3	14
89	Trapping of lead (Pb) by corn and pea root border cells. <i>Plant and Soil</i> , 2018, 430, 205-217.	3.7	14
90	U-series isotopic signatures of soils and headwater streams in a semi-arid complex volcanic terrain. <i>Chemical Geology</i> , 2016, 445, 68-83.	3.3	13

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91	CO ₂ diffusion into pore spaces limits weathering rate of an experimental basalt landscape. <i>Geology</i> , 2017, 45, 203-206.	4.4	13
92	Environmental Fate of ¹⁴ C Radiolabeled 2,4-Dinitroanisole in Soil Microcosms. <i>Environmental Science & Technology</i> , 2017, 51, 13327-13334.	10.0	13
93	Resolving Deep Critical Zone Architecture in Complex Volcanic Terrain. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005189.	2.8	13
94	Rates and mechanisms of uranyl oxyhydroxide mineral dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 298-321.	3.9	12
95	Pore water chemistry reveals gradients in mineral transformation across a model basaltic hillslope. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 2054-2069.	2.5	11
96	Dissolved Carbonate and pH Control the Dissolution of Uranyl Phosphate Minerals in Flow-Through Porous Media. <i>Environmental Science & Technology</i> , 2020, 54, 6031-6042.	10.0	11
97	Surficial weathering of kaolin regolith in a subtropical climate: Implications for supergene pedogenesis and bedrock argillization. <i>Geoderma</i> , 2019, 337, 225-237.	5.1	10
98	Biochar-templated surface precipitation and inner-sphere complexation effectively removes arsenic from acid mine drainage. <i>Environmental Science and Pollution Research</i> , 2021, 28, 45519-45533.	5.3	10
99	Iron(II) monosulfide (FeS) minerals reductively transform the insensitive munitions compounds 2,4-dinitroanisole (DNAN) and 3-nitro-1,2,4-triazol-5-one (NTO). <i>Chemosphere</i> , 2021, 285, 131409.	8.2	10
100	Resolving colocalization of bacteria and metal(loid)s on plant root surfaces by combining fluorescence in situ hybridization (FISH) with multiple-energy micro-focused X-ray fluorescence (ME) Tj ETQq0 0 0 rBT /Overlock 10 Tf 5		
101	Controlled Experiments of Hillslope Coevolution at the Biosphere 2 Landscape Evolution Observatory: Toward Prediction of Coupled Hydrological, Biogeochemical, and Ecological Change. , 0, , .		9
102	Phosphate controls uranium release from acidic waste-weathered Hanford sediments. <i>Journal of Hazardous Materials</i> , 2021, 416, 126240.	12.4	9
103	Bioaccessibility, release kinetics, and molecular speciation of arsenic and lead in geo-dusts from the Iron King Mine Federal Superfund site in Humboldt, Arizona. <i>Reviews on Environmental Health</i> , 2014, 29, 23-7.	2.4	8
104	Soil Fluid Biogeochemical Response to Climatic Events. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2866-2882.	3.0	8
105	Enhanced removal of per- and polyfluoroalkyl substances by crosslinked polyaniline polymers. <i>Chemical Engineering Journal</i> , 2022, 446, 137246.	12.7	8
106	Experimental Assessment of Passive Capillary Wick Sampler Suitability for Inorganic Soil Solution Constituents. <i>Soil Science Society of America Journal</i> , 2014, 78, 486-495.	2.2	7
107	Bioconcentration potential and microbial toxicity of onium cations in photoacid generators. <i>Environmental Science and Pollution Research</i> , 2021, 28, 8915-8921.	5.3	7
108	Analysis of hydrophilic per- and polyfluorinated sulfonates including trifluoromethanesulfonate using solid phase extraction and mixed-mode liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2022, 1664, 462817.	3.7	6

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109	Resiliency of Silica Export Signatures When Low Order Streams Are Subject to Storm Events. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	6
110	A New Standard-Based Polynomial Interpolation (SBPI _n) method to address gel-to-gel variability for the comparison of multiple denaturing gradient gel electrophoresis profile matrices. <i>Journal of Microbiological Methods</i> , 2013, 92, 173-177.	1.6	5
111	U-series and Sr isotopes as tracers of mineral weathering and water routing from the deep Critical Zone to streamflow in a high-elevation volcanic catchment. <i>Chemical Geology</i> , 2021, 570, 120156.	3.3	5
112	Hydrogeophysical comparison of hillslope critical zone architecture for different geologic substrates. <i>Geophysics</i> , 2021, 86, WB87-WB107.	2.6	5
113	Photochemical fate of sulfonium photoacid generator cations under photolithography relevant UV irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 416, 113324.	3.9	5
114	Soil Lysimeter Excavation for Coupled Hydrological, Geochemical, and Microbiological Investigations. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	4
115	Contrasting Community Assembly Forces Drive Microbial Structural and Potential Functional Responses to Precipitation in an Incipient Soil System. <i>Frontiers in Microbiology</i> , 2021, 12, 754698.	3.5	4
116	Response to "Comments on "Artifacts Caused by Collection of Soil Solution with Passive Capillary Samplers" Soil Science Society of America Journal, 2001, 65, 1572-1573.	2.2	3
117	Experimental weathering of a volcanoclastic critical zone profile: Key role of colloidal constituents in aqueous geochemical response. <i>Chemical Geology</i> , 2021, 559, 119886.	3.3	3
118	Synthesis and Characterization of Customizable Polyaniline-Derived Polymers and Their Application for Perfluorooctanoic Acid Removal from Aqueous Solution. <i>ACS ES&T Water</i> , 2021, 1, 1438-1446.	4.6	3
119	Constraints of Climate and Age on Soil Development in Hawai'i. , 2022, , 49-88.		3
120	Identifying Toxic Biotransformation Products of the Insensitive Munitions Compound, 2,4-Dinitroanisole (DNAN), Using Liquid Chromatography Coupled to Quadrupole Time-of-Flight Mass Spectrometry (LC-QToF-MS). <i>ACS Symposium Series</i> , 2016, , 133-145.	0.5	2
121	The Role of Manganese Dioxide in the Natural Formation of Organochlorines. <i>ACS ES&T Water</i> , 2021, 1, 2523-2530.	4.6	2
122	Biosolids leachate variability, stabilization surrogates, and optical metric selection. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 657-670.	2.4	2
123	Metal Lability and Mass Transfer Response to Direct-Planting Phytostabilization of Pyritic Mine Tailings. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 757.	2.0	2
124	Tailored Polyanilines Are High-Affinity Adsorbents for Per- and Polyfluoroalkyl Substances. <i>ACS ES&T Water</i> , 2022, 2, 1402-1410.	4.6	2
125	Fate of bis-(4-tert-butyl phenyl)-iodonium under photolithography relevant irradiation and the environmental risk properties of the formed photoproducts. <i>Environmental Science and Pollution Research</i> , 2022, 29, 25988-25994.	5.3	0
126	Effects of flow on uranium speciation in soils impacted by acidic waste fluids. <i>Journal of Environmental Radioactivity</i> , 2022, 251-252, 106955.	1.7	0