

Wenfeng Tan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3879083/wenfeng-tan-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

194
papers

3,830
citations

34
h-index

48
g-index

204
ext. papers

5,012
ext. citations

6.7
avg, IF

5.79
L-index

#	Paper	IF	Citations
194	Sorption behavior of heavy metals on birnessite: Relationship with its Mn average oxidation state and implications for types of sorption sites. <i>Chemical Geology</i> , 2012 , 292-293, 25-34	4.2	130
193	Characteristics of Phosphate Adsorption-Desorption Onto Ferrihydrite. <i>Soil Science</i> , 2013 , 178, 1-11	0.9	127
192	Lead binding to soil fulvic and humic acids: NICA-Donnan modeling and XAFS spectroscopy. <i>Environmental Science & Technology</i> , 2013 , 47, 11634-42	10.3	95
191	Soil inorganic carbon stock under different soil types and land uses on the Loess Plateau region of China. <i>Catena</i> , 2014 , 121, 22-30	5.8	69
190	Characterization of Ni-rich hexagonal birnessite and its geochemical effects on aqueous Pb ²⁺ /Zn ²⁺ and As(III). <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 93, 47-62	5.5	69
189	Mechanisms of Mn(II) catalytic oxidation on ferrihydrite surfaces and the formation of manganese (oxyhydr)oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 211, 79-96	5.5	67
188	Adsorption and redox reactions of heavy metals on Fe-Mn nodules from Chinese soils. <i>Journal of Colloid and Interface Science</i> , 2005 , 284, 600-5	9.3	67
187	Effect of different vegetation cover on the vertical distribution of soil organic and inorganic carbon in the Zhifanggou Watershed on the loess plateau. <i>Catena</i> , 2016 , 139, 191-198	5.8	66
186	Natural grassland as the optimal pattern of vegetation restoration in arid and semi-arid regions: Evidence from nutrient limitation of soil microbes. <i>Science of the Total Environment</i> , 2019 , 648, 388-397	10.2	65
185	Interaction between humic acid and lysozyme, studied by dynamic light scattering and isothermal titration calorimetry. <i>Environmental Science & Technology</i> , 2009 , 43, 591-6	10.3	65
184	Improved removal capacity of magnetite for Cr(VI) by electrochemical reduction. <i>Journal of Hazardous Materials</i> , 2019 , 374, 26-34	12.8	64
183	Relationship between Pb ²⁺ adsorption and average Mn oxidation state in synthetic birnessites. <i>Clays and Clay Minerals</i> , 2009 , 57, 513-520	2.1	64
182	Mechanisms of soil humic acid adsorption onto montmorillonite and kaolinite. <i>Journal of Colloid and Interface Science</i> , 2017 , 504, 457-467	9.3	63
181	Characterization of Co-doped birnessites and application for removal of lead and arsenite. <i>Journal of Hazardous Materials</i> , 2011 , 188, 341-9	12.8	62
180	Surface properties and phosphate adsorption of binary systems containing goethite and kaolinite. <i>Geoderma</i> , 2014 , 213, 478-484	6.7	55
179	The associations of heavy metals with crystalline iron oxides in the polluted soils around the mining areas in Guangdong Province, China. <i>Chemosphere</i> , 2016 , 161, 181-189	8.4	55
178	Cadmium Removal from Aqueous Solution by a Deionization Supercapacitor with a Birnessite Electrode. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34405-34413	9.5	53

177	Effects of Fe doping on the structures and properties of hexagonal birnessites [Comparison with Co and Ni doping. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 117, 1-15	5.5	52
176	Binding of cationic surfactants to humic substances. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 306, 29-39	5.1	51
175	Elemental Composition and Geochemical Characteristics of Iron-Manganese Nodules in Main Soils of China . <i>Pedosphere</i> , 2006 , 16, 72-81	5	50
174	A sol-gel derived pH-responsive bovine serum albumin molecularly imprinted poly(ionic liquids) on the surface of multiwall carbon nanotubes. <i>Analytica Chimica Acta</i> , 2016 , 932, 29-40	6.6	43
173	Copper binding to soil fulvic and humic acids: NICA-Donnan modeling and conditional affinity spectra. <i>Journal of Colloid and Interface Science</i> , 2016 , 473, 141-51	9.3	43
172	Influence of soil humic and fulvic acid on the activity and stability of lysozyme and urease. <i>Environmental Science & Technology</i> , 2013 , 47, 5050-6	10.3	42
171	As(III) adsorption on Fe-Mn binary oxides: Are Fe and Mn oxides synergistic or antagonistic for arsenic removal?. <i>Chemical Engineering Journal</i> , 2020 , 389, 124470	14.7	41
170	Efficient catalytic As(III) oxidation on the surface of ferrihydrite in the presence of aqueous Mn(II). <i>Water Research</i> , 2018 , 128, 92-101	12.5	40
169	Enhanced adsorption removal of arsenic from mining wastewater using birnessite under electrochemical redox reactions. <i>Chemical Engineering Journal</i> , 2019 , 375, 122051	14.7	39
168	Mechanisms of arsenic-containing pyrite oxidation by aqueous arsenate under anoxic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 217, 306-319	5.5	39
167	Patterns of soil microbial nutrient limitations and their roles in the variation of soil organic carbon across a precipitation gradient in an arid and semi-arid region. <i>Science of the Total Environment</i> , 2019 , 658, 1440-1451	10.2	38
166	Influence of Mn(III) availability on the phase transformation from layered buserite to tunnel-structured todorokite. <i>Clays and Clay Minerals</i> , 2008 , 56, 397-403	2.1	37
165	Remediation of heavy metal contaminated soils by organic acid extraction and electrochemical adsorption. <i>Environmental Pollution</i> , 2020 , 264, 114745	9.3	36
164	Co ²⁺ -exchange mechanism of birnessite and its application for the removal of Pb ²⁺ and As(III). <i>Journal of Hazardous Materials</i> , 2011 , 196, 318-26	12.8	36
163	Arbuscular mycorrhizal mycelial networks and glomalin-related soil protein increase soil aggregation in Calcaric Regosol under well-watered and drought stress conditions. <i>Soil and Tillage Research</i> , 2019 , 185, 1-8	6.5	35
162	Effect of soil fulvic and humic acid on binding of Pb to goethite-water interface: Linear additivity and volume fractions of HS in the Stern layer. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 121-30	9.3	34
161	Enhancement of Zn ²⁺ and Ni ²⁺ removal performance using a deionization pseudocapacitor with nanostructured birnessite and its carbon nanotube composite electrodes. <i>Chemical Engineering Journal</i> , 2017 , 328, 464-473	14.7	34
160	Fourier transform infrared spectroscopy study of acid birnessites before and after Pb ²⁺ adsorption. <i>Clay Minerals</i> , 2012 , 47, 191-204	1.3	34

159	Characteristics of micromorphology and element distribution of iron-manganese cutans in typical soils of subtropical China. <i>Geoderma</i> , 2008 , 146, 40-47	6.7	33
158	High-performance Cu adsorption of birnessite using electrochemically controlled redox reactions. <i>Journal of Hazardous Materials</i> , 2018 , 354, 107-115	12.8	32
157	Proton binding to soil humic and fulvic acids: Experiments and NICA-Donnan modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 1152-1158	5.1	32
156	Birnessites with different average manganese oxidation states synthesized, characterized, and transformed to todorokite at atmospheric pressure. <i>Clays and Clay Minerals</i> , 2009 , 57, 715-724	2.1	32
155	Environmental significance of mineral weathering and pedogenesis of loess on the southernmost Loess Plateau, China. <i>Geoderma</i> , 2011 , 163, 219-226	6.7	31
154	Morphology-dependent enhancement of arsenite oxidation to arsenate on birnessite-type manganese oxide. <i>Chemical Engineering Journal</i> , 2017 , 327, 235-243	14.7	29
153	Facile synthesis of birnessite-type manganese oxide nanoparticles as supercapacitor electrode materials. <i>Journal of Colloid and Interface Science</i> , 2016 , 482, 183-192	9.3	29
152	XPS and two-dimensional FTIR correlation analysis on the binding characteristics of humic acid onto kaolinite surface. <i>Science of the Total Environment</i> , 2020 , 724, 138154	10.2	28
151	Proton and Copper Binding to Humic Acids Analyzed by XAFS Spectroscopy and Isothermal Titration Calorimetry. <i>Environmental Science & Technology</i> , 2018 , 52, 4099-4107	10.3	28
150	Roles of manganese oxides in degradation of phenol under UV-Vis irradiation: adsorption, oxidation, and photocatalysis. <i>Journal of Environmental Sciences</i> , 2011 , 23, 1904-10	6.4	28
149	Factor contribution to soil organic and inorganic carbon accumulation in the Loess Plateau: Structural equation modeling. <i>Geoderma</i> , 2019 , 352, 116-125	6.7	27
148	Spatial analysis of soil aggregate stability in a small catchment of the Loess Plateau, China: I. Spatial variability. <i>Soil and Tillage Research</i> , 2018 , 179, 71-81	6.5	27
147	Mechanisms on the morphology variation of hematite crystals by Al substitution: The modification of Fe and O reticular densities. <i>Scientific Reports</i> , 2016 , 6, 35960	4.9	27
146	Pathways of birnessite formation in alkali medium. <i>Science in China Series D: Earth Sciences</i> , 2005 , 48, 1438-1451		27
145	Effect of Soil Fulvic and Humic Acids on Pb Binding to the Goethite/Solution Interface: Ligand Charge Distribution Modeling and Speciation Distribution of Pb. <i>Environmental Science & Technology</i> , 2018 , 52, 1348-1356	10.3	26
144	Transformation of hydroxycarbonate green rust into crystalline iron (hydr)oxides: Influences of reaction conditions and underlying mechanisms. <i>Chemical Geology</i> , 2013 , 351, 57-65	4.2	26
143	Spatio-temporal dynamics of soil moisture driven by Grain for Green program on the Loess Plateau, China. <i>Agriculture, Ecosystems and Environment</i> , 2019 , 269, 204-214	5.7	26
142	Effect of arsenate on adsorption of Cd(II) by two variable charge soils. <i>Chemosphere</i> , 2007 , 67, 1949-55	8.4	25

141	βMnO ₂ nanowires transformed from precursor βMnO ₂ by refluxing under ambient pressure: The key role of pH and growth mechanism. <i>Materials Chemistry and Physics</i> , 2011 , 125, 678-685	4.4	24
140	Soil shrinkage and hydrostructural characteristics of three swelling soils in Shaanxi, China. <i>Journal of Soils and Sediments</i> , 2011 , 11, 474-481	3.4	24
139	Surface adsorption and precipitation of inositol hexakisphosphate on calcite: A comparison with orthophosphate. <i>Chemical Geology</i> , 2016 , 421, 103-111	4.2	23
138	The simultaneous presence of glyphosate and phosphate at the goethite surface as seen by XPS, ATR-FTIR and competitive adsorption isotherms. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 498, 121-127	5.1	23
137	Photochemical Formation and Transformation of Birnessite: Effects of Cations on Micromorphology and Crystal Structure. <i>Environmental Science & Technology</i> , 2018 , 52, 6864-6871	10.3	23
136	Local structure of Cu ²⁺ in Cu-doped hexagonal turbostratic birnessite and Cu ²⁺ stability under acid treatment. <i>Chemical Geology</i> , 2017 , 466, 512-523	4.2	22
135	Adsorption-Desorption of Myo-Inositol Hexakisphosphate on Hematite. <i>Soil Science</i> , 2014 , 179, 476-485	0.9	22
134	Mechanisms of interaction between arsenian pyrite and aqueous arsenite under anoxic and oxic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 228, 205-219	5.5	21
133	The Presence of Ferrihydrite Promotes Abiotic Formation of Manganese (Oxyhydr)oxides. <i>Soil Science Society of America Journal</i> , 2015 , 79, 1297-1305	2.5	21
132	Large-scale size-controlled synthesis of cryptomelane-type manganese oxide OMS-2 in lateral and longitudinal directions. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5223		21
131	Effects of polyphosphates and orthophosphate on the dissolution and transformation of ZnO nanoparticles. <i>Chemosphere</i> , 2017 , 176, 255-265	8.4	20
130	Oxidation process of dissolvable sulfide by synthesized todorokite in aqueous systems. <i>Journal of Hazardous Materials</i> , 2015 , 290, 106-16	12.8	20
129	Dissolution and phase transformation processes of hausmannite in acidic aqueous systems under anoxic conditions. <i>Chemical Geology</i> , 2018 , 487, 54-62	4.2	20
128	Effects of Al(3+) doping on the structure and properties of goethite and its adsorption behavior towards phosphate. <i>Journal of Environmental Sciences</i> , 2016 , 45, 18-27	6.4	20
127	Synthesis of todorokite-type manganese oxide from Cu-buserite by controlling the pH at atmospheric pressure. <i>Microporous and Mesoporous Materials</i> , 2009 , 117, 41-47	5.3	20
126	Cd adsorption performance of tunnel-structured manganese oxides driven by electrochemically controlled redox. <i>Environmental Pollution</i> , 2019 , 244, 783-791	9.3	20
125	Influence factors for the oxidation of pyrite by oxygen and birnessite in aqueous systems. <i>Journal of Environmental Sciences</i> , 2016 , 45, 164-76	6.4	19
124	Formation of todorokite from "c-disordered" H(+)-birnessites: the roles of average manganese oxidation state and interlayer cations. <i>Geochemical Transactions</i> , 2015 , 16, 8	3	19

123	Structure and properties of vanadium(V)-doped hexagonal turbostratic birnessite and its enhanced scavenging of Pb ²⁺ from solutions. <i>Journal of Hazardous Materials</i> , 2015 , 288, 80-8	12.8	19
122	Role of Counteranions in Sol [−] -Derived Alkoxy-Functionalized Ionic-Liquid-Based Organic/Inorganic Hybrid Coatings for SPME. <i>Chromatographia</i> , 2012 , 75, 1421-1433	2.1	19
121	Relation of lead adsorption on birnessites with different average oxidation states of manganese and release of Mn ²⁺ /H ⁺ /K ⁺ . <i>Journal of Environmental Sciences</i> , 2009 , 21, 520-6	6.4	19
120	Microstructure, Interaction Mechanisms, and Stability of Binary Systems Containing Goethite and Kaolinite. <i>Soil Science Society of America Journal</i> , 2012 , 76, 389-398	2.5	19
119	Equilibrium mono- and multicomponent adsorption models: From homogeneous ideal to heterogeneous non-ideal binding. <i>Advances in Colloid and Interface Science</i> , 2020 , 280, 102138	14.3	18
118	CD-MUSIC-EDL Modeling of Pb Adsorption on Birnessites: Role of Vacant and Edge Sites. <i>Environmental Science & Technology</i> , 2018 , 52, 10522-10531	10.3	18
117	Formation of Zn-Al layered double hydroxides (LDH) during the interaction of ZnO nanoparticles (NPs) with FAO. <i>Science of the Total Environment</i> , 2019 , 650, 1980-1987	10.2	18
116	Surface speciation of myo-inositol hexakisphosphate adsorbed on TiO ₂ nanoparticles and its impact on their colloidal stability in aqueous suspension: A comparative study with orthophosphate. <i>Science of the Total Environment</i> , 2016 , 544, 134-42	10.2	17
115	Synthesis of hureaulite by a reflux process at ambient temperature and pressure. <i>Microporous and Mesoporous Materials</i> , 2012 , 153, 115-123	5.3	17
114	Oxidation behavior and kinetics of sulfide by synthesized manganese oxide minerals. <i>Journal of Soils and Sediments</i> , 2011 , 11, 1323-1333	3.4	17
113	Synthesis of MnPO ₄ ·H ₂ O by refluxing process at atmospheric pressure. <i>Solid State Sciences</i> , 2010 , 12, 808-813	3.4	17
112	Cobalt-doped todorokites prepared by refluxing at atmospheric pressure as cathode materials for Li batteries. <i>Electrochimica Acta</i> , 2010 , 55, 9157-9165	6.7	17
111	Zinc removal from aqueous solution using a deionization pseudocapacitor with a high-performance nanostructured birnessite electrode. <i>Environmental Science: Nano</i> , 2017 , 4, 811-823	7.1	16
110	Al-substitution-induced defect sites enhance adsorption of Pb ²⁺ on hematite. <i>Environmental Science: Nano</i> , 2019 , 6, 1323-1331	7.1	16
109	Composition and transformation of 1.4 nm minerals in cutan and matrix of alfisols in central China. <i>Journal of Soils and Sediments</i> , 2007 , 7, 240-246	3.4	16
108	Photochemical oxidation and dissolution of arsenopyrite in acidic solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 239, 173-185	5.5	15
107	Investigation on electrochemical reduction process of Nb ₂ O ₅ powder in molten CaCl ₂ with metallic cavity electrode. <i>Electrochimica Acta</i> , 2008 , 53, 4074-4081	6.7	15
106	Effects of reaction conditions on the formation of todorokite at atmospheric pressure. <i>Clays and Clay Minerals</i> , 2006 , 54, 605-615	2.1	15

105	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	5.5	15
104	High manure load reduces bacterial diversity and network complexity in a paddy soil under crop rotations. <i>Soil Ecology Letters</i> , 2020 , 2, 104-119	2.7	15
103	Lead binding to wild metal-resistant bacteria analyzed by ITC and XAFS spectroscopy. <i>Environmental Pollution</i> , 2019 , 250, 118-126	9.3	14
102	Molecular Mechanisms of Lead Binding to Ferrihydrite-Bacteria Composites: ITC, XAFS, and EXRF Investigations. <i>Environmental Science & Technology</i> , 2020 , 54, 4016-4025	10.3	14
101	Interaction between lysozyme and humic acid in layer-by-layer assemblies: effects of pH and ionic strength. <i>Journal of Colloid and Interface Science</i> , 2014 , 430, 40-6	9.3	14
100	SoilChip-XPS integrated technique to study formation of soil biogeochemical interfaces. <i>Soil Biology and Biochemistry</i> , 2017 , 113, 71-79	7.5	14
99	Effects of humic acid on adhesion of <i>Bacillus subtilis</i> to phyllosilicates and goethite. <i>Chemical Geology</i> , 2015 , 416, 19-27	4.2	14
98	Synthetic Polymer Affinity Ligand for <i>Bacillus thuringiensis</i> (Bt) Cry1Ab/Ac Protein: The Use of Biomimicry Based on the Bt Protein-Insect Receptor Binding Mechanism. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6853-6864	16.4	14
97	Facile crystal-structure-controlled synthesis of iron oxides for adsorbents and anode materials of lithium batteries. <i>Materials Chemistry and Physics</i> , 2016 , 170, 239-245	4.4	13
96	Quantitative and structural analysis of minerals in soil clay fractions developed under different climate zones in China by XRD with Rietveld method, and its implications for pedogenesis. <i>Applied Clay Science</i> , 2018 , 162, 351-361	5.2	13
95	Mixed ad/desorption kinetics unraveled with the equilibrium adsorption isotherm. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 577, 709-722	5.1	12
94	Impact of low-molecular weight organic acids on selenite immobilization by goethite: Understanding a competitive-synergistic coupling effect and speciation transformation. <i>Science of the Total Environment</i> , 2019 , 684, 694-704	10.2	12
93	Solar Irradiation Induced Transformation of Ferrihydrite in the Presence of Aqueous Fe. <i>Environmental Science & Technology</i> , 2019 , 53, 8854-8861	10.3	12
92	One-step synthesis of sea urchin-like γ -MnO ₂ using KIO ₄ as the oxidant and its oxidation of arsenite. <i>Materials Letters</i> , 2012 , 77, 60-62	3.3	12
91	Mineralogical and pedogenetic evidence for palaeoenvironmental variations during the Holocene on the Loess Plateau, China. <i>Catena</i> , 2012 , 96, 49-56	5.8	12
90	Formation and Transformation of Iron Oxide-Baolinite Associations in the Presence of Iron(II). <i>Soil Science Society of America Journal</i> , 2011 , 75, 45-55	2.5	12
89	Aging promotes todorokite formation from layered manganese oxide at near-surface conditions. <i>Journal of Soils and Sediments</i> , 2010 , 10, 1540-1547	3.4	12
88	Spatial analysis of soil aggregate stability in a small catchment of the Loess Plateau, China: II. Spatial prediction. <i>Soil and Tillage Research</i> , 2019 , 192, 1-11	6.5	11

87	Photochemical Formation Process of Schwertmannite on Montmorillonite and Corresponding Cr(VI) Adsorption Capacity. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 718-727	3.2	11
86	Roles of different types of oxalate surface complexes in dissolution process of ferrihydrite aggregates. <i>Scientific Reports</i> , 2018 , 8, 2060	4.9	11
85	Catalytic oxidation of arsenite and reaction pathways on the surface of CuO nanoparticles at a wide range of pHs. <i>Geochemical Transactions</i> , 2018 , 19, 12	3	11
84	Zn sorption to biogenic bixbyite-like Mn ₂ O ₃ produced by <i>Bacillus</i> CUA isolated from soil: XAFS study with constraints on sorption mechanism. <i>Chemical Geology</i> , 2014 , 389, 82-90	4.2	11
83	Influence of lysozyme complexation with purified Aldrich humic acid on lysozyme activity. <i>European Journal of Soil Science</i> , 2012 , 63, 550-557	3.4	11
82	XAFS studies on surface coordination of Pb ²⁺ on birnessites with different average oxidation states. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 379, 86-92	5.1	11
81	Geochemical characteristics of selected elements in iron-manganese cutans and matrices of Alfisols in central China. <i>Journal of Geochemical Exploration</i> , 2009 , 103, 30-36	3.8	11
80	Effect of 1-1 electrolyte concentration on the adsorption/desorption of copper ion on synthetic birnessite. <i>Journal of Soils and Sediments</i> , 2010 , 10, 879-885	3.4	11
79	Catalytic oxidation and adsorption of Cr(III) on iron-manganese nodules under oxic conditions. <i>Journal of Hazardous Materials</i> , 2020 , 390, 122166	12.8	10
78	Effects of Myo-inositol Hexakisphosphate on Zn(II) Sorption on γ -Alumina: A Mechanistic Study. <i>ACS Earth and Space Chemistry</i> , 2018 , 2, 787-796	3.2	10
77	Effects of myo-inositol hexakisphosphate, ferrihydrite coating, ionic strength and pH on the transport of TiO ₂ nanoparticles in quartz sand. <i>Environmental Pollution</i> , 2019 , 252, 1193-1201	9.3	9
76	Symbiosis mechanism of iron and manganese oxides in oxic aqueous systems. <i>Chemical Geology</i> , 2018 , 488, 162-170	4.2	9
75	Influence of humic acid on transport, deposition and activity of lysozyme in quartz sand. <i>Environmental Pollution</i> , 2018 , 242, 298-306	9.3	9
74	The Speciation of Cd in Cd-Fe Coprecipitates: Does Cd Substitute for Fe in Goethite Structure?. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 2225-2236	3.2	9
73	Synthesis of a Nanofibrous Manganese Oxide Octahedral Molecular Sieve with Co(NH ₃) ₆ ³⁺ Complex Ions as a Template via a Reflux Method. <i>Crystal Growth and Design</i> , 2010 , 10, 3355-3362	3.5	9
72	Effects of Co(II) ion exchange, Ni(II)- and V(V)-doping on the transformation behaviors of Cr(III) on hexagonal turbostratic birnessite-water interfaces. <i>Environmental Pollution</i> , 2020 , 256, 113462	9.3	9
71	The catalytic effect of AQDS as an electron shuttle on Mn(II) oxidation to birnessite on ferrihydrite at circumneutral pH. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 247, 175-190	5.5	9
70	Effects of Al substitution on local structure and morphology of lepidocrocite and its phosphate adsorption kinetics. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 276, 109-121	5.5	8

69	Electrochemical adsorption of cadmium and arsenic by natural Fe-Mn nodules. <i>Journal of Hazardous Materials</i> , 2020 , 390, 122165	12.8	8
68	Structural Controls on the Catalytic Polymerization of Hydroquinone by Birnessites. <i>Clays and Clay Minerals</i> , 2011 , 59, 525-537	2.1	8
67	Factors governing the formation of lithiophorite at atmospheric pressure. <i>Clays and Clay Minerals</i> , 2009 , 57, 353-360	2.1	8
66	Synthesis of todorokite by refluxing process and its primary characteristics. <i>Science in China Series D: Earth Sciences</i> , 2004 , 47, 760-768		8
65	High-efficiency As(III) oxidation and electrocoagulation removal using hematite with a charge-discharge technique. <i>Science of the Total Environment</i> , 2020 , 703, 135678	10.2	8
64	Abiotic photomineralization and transformation of iron oxide nanominerals in aqueous systems. <i>Environmental Science: Nano</i> , 2018 , 5, 1169-1178	7.1	7
63	Factors governing formation of todorokite at atmospheric pressure. <i>Science in China Series D: Earth Sciences</i> , 2005 , 48, 1678-1689		7
62	Phosphate speciation on Al-substituted goethite: ATR-FTIR/2D-COS and CD-MUSIC modeling. <i>Environmental Science: Nano</i> , 2019 , 6, 3625-3637	7.1	7
61	Quantitative analysis of Pb adsorption on sulfhydryl-modified biochar. <i>Biochar</i> , 2021 , 3, 37-49	10	7
60	Effective Zinc Adsorption Driven by Electrochemical Redox Reactions of Birnessite Nanosheets Generated by Solar Photochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13907-13914	8.3	7
59	The alkaline photo-sulfite system triggers Fe(IV/V) generation at hematite surfaces. <i>Chemical Engineering Journal</i> , 2020 , 401, 126124	14.7	6
58	Arsenic release from arsenopyrite oxidative dissolution in the presence of citrate under UV irradiation. <i>Science of the Total Environment</i> , 2020 , 726, 138429	10.2	6
57	Enhanced oxidation of arsenite to arsenate using tunable K concentration in the OMS-2 tunnel. <i>Environmental Pollution</i> , 2018 , 238, 524-531	9.3	6
56	Exploring the effects of landscape structure on aerosol optical depth (AOD) patterns using GIS and HJ-1B images. <i>Environmental Sciences: Processes and Impacts</i> , 2016 , 18, 265-76	4.3	6
55	Oxidation and Catalytic Oxidation of Dissolved Sulfide by Manganite in Aqueous Systems. <i>Clays and Clay Minerals</i> , 2017 , 65, 299-309	2.1	6
54	Coupled morphological and structural evolution of γ -MnO ₂ to α -MnO ₂ through multistage oriented assembly processes: the role of Mn(III). <i>Environmental Science: Nano</i> , 2020 , 7, 238-249	7.1	6
53	Highly enhanced oxidation of arsenite at the surface of birnessite in the presence of pyrophosphate and the underlying reaction mechanisms. <i>Water Research</i> , 2020 , 187, 116420	12.5	6
52	Arsenic detoxification by iron-manganese nodules under electrochemically controlled redox: Mechanism and application. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123912	12.8	6

51	Effects of Mn ²⁺ , Ni ²⁺ , and Cu ²⁺ on the Formation and Transformation of Hydrosulfate Green Rust: Reaction Processes and Underlying Mechanisms. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 519-530	3.2	5
50	Adsorption and catalytic oxidation of arsenite on Fe-Mn nodules in the presence of oxygen. <i>Chemosphere</i> , 2020 , 259, 127503	8.4	5
49	Interaction mechanism of dissolved Cr(VI) and manganite in the presence of goethite coating. <i>Environmental Pollution</i> , 2020 , 260, 114046	9.3	5
48	Effects of aluminum substitution on the surface charge of colloidal goethite particles: experiments and MUSIC modeling. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 38397-38406	5.1	5
47	Absorption mechanisms of Cu(2+) on a biogenic bixbyite-like Mn ₂ O ₃ produced by Bacillus CUA isolated from soil. <i>Geochemical Transactions</i> , 2015 , 16, 5	3	5
46	Preference of Co over Al for substitution of Fe in goethite (FeOOH) structure: Mechanism revealed from EXAFS, XPS, DFT and linear free energy correlation model. <i>Chemical Geology</i> , 2020 , 532, 119378	4.2	5
45	Adsorption and precipitation of myo-inositol hexakisphosphate onto kaolinite. <i>European Journal of Soil Science</i> , 2020 , 71, 226-235	3.4	5
44	Effect of citrate on the species and levels of Al impurities in ferrihydrite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 539, 140-147	5.1	5
43	Profile distribution of soil organic and inorganic carbon following revegetation on the Loess Plateau, China. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 30301-30314	5.1	5
42	Transformation from Phyllophanes to Todorokite under Various Conditions: A Review of Implication for Formation Pathway of Natural Todorokite. <i>ACS Symposium Series</i> , 2015 , 107-134	0.4	4
41	Factors Influencing the Elemental Distribution in Iron-Manganese Cutans of Three Subtropical Soils. <i>Soil Science</i> , 2011 , 176, 48-56	0.9	4
40	Quantitative Characterization of the Site Density and the Charged State of Functional Groups on Biochar. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2600-2608	8.3	4
39	Molecular-Scale Understanding of Sulfate Exchange from Schwertmannite by Chromate Versus Arsenate. <i>Environmental Science & Technology</i> , 2021 , 55, 5857-5867	10.3	4
38	Plant litter quality regulates soil eco-enzymatic stoichiometry and microbial nutrient limitation in a citrus orchard. <i>Plant and Soil</i> , 2021 , 466, 179-191	4.2	4
37	Effects of myo-inositol hexakisphosphate and orthophosphate adsorption on aggregation of CeO ₂ nanoparticles: roles of pH and surface coverage. <i>Environmental Chemistry</i> , 2016 , 13, 34	3.2	4
36	Effect of Cd and Al Coincorporation on the Structures and Properties of Goethite. <i>ACS Earth and Space Chemistry</i> , 2018 , 2, 1283-1293	3.2	4
35	Suppressed phosphorus-mineralizing bacteria after three decades of fertilization. <i>Agriculture, Ecosystems and Environment</i> , 2022 , 323, 107679	5.7	4
34	Selective adsorption of soil humic acid on binary systems containing kaolinite and goethite: Assessment of sorbent interactions. <i>European Journal of Soil Science</i> , 2019 , 70, 1098	3.4	3

33	Formation and Morphology Evolution from Ferrihydrite to Hematite in the Presence of Tartaric Acid. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 562-570	3.2	3
32	Characteristics of the fifth paleosol complex (S5) in the southernmost part of the Chinese Loess Plateau and its paleo-environmental significance. <i>Catena</i> , 2014 , 122, 130-139	5.8	3
31	Characteristics of Iron-Manganese Cutans and Matrices in Alfisols and Ultisols of Subtropical China. <i>Soil Science</i> , 2009 , 174, 238-246	0.9	3
30	Influences and Mechanisms of As(V) Concentration and Environmental Factors on Hydrosulfate Green Rust Transformation. <i>Acta Chimica Sinica</i> , 2017 , 75, 608	3.3	3
29	Epitaxial growth mechanism of heterogeneous catalytic oxidation of Mn(II) on manganite under oxic conditions. <i>Chemical Geology</i> , 2020 , 547, 119670	4.2	3
28	Synergistic adsorption of Cd(II) and As(V) on birnessite under electrochemical control. <i>Chemosphere</i> , 2020 , 247, 125822	8.4	3
27	Conformational modifications of lysozyme caused by interaction with humic acid studied with spectroscopy. <i>Science of the Total Environment</i> , 2021 , 768, 144858	10.2	3
26	Formation and transformation of manganese(III) intermediates in the photochemical generation of manganese(IV) oxide minerals. <i>Chemosphere</i> , 2021 , 262, 128082	8.4	3
25	Interaction mechanism and kinetics of ferrous sulfide and manganese oxides in aqueous system. <i>Journal of Soils and Sediments</i> , 2018 , 18, 564-575	3.4	3
24	Insights into the improving mechanism of defect-mediated As(V) adsorption on hematite nanoplates. <i>Chemosphere</i> , 2021 , 280, 130597	8.4	3
23	In situ detection of intermediates from the interaction of dissolved sulfide and manganese oxides with a platinum electrode in aqueous systems. <i>Environmental Chemistry</i> , 2017 , 14, 178	3.2	2
22	Origin of Smectite in Salinized Soil of Junggar Basin in Xinjiang of China. <i>Minerals (Basel, Switzerland)</i> , 2019 , 9, 100	2.4	2
21	Quantitative investigation of ZnO nanoparticle dissolution in the presence of δ MnO. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 14751-14762	5.1	2
20	The distinct effects of isomorphous substitution of various divalence trace metals on hematite structure. <i>Materials Chemistry and Physics</i> , 2018 , 217, 40-47	4.4	2
19	Effect of carbonate and phosphate ratios on the transformation of calcium orthophosphates. <i>Materials Research Bulletin</i> , 2014 , 55, 114-120	5.1	2
18	Shape-controlled Synthesis of Nanostructure Ramsdellite-type Manganese Oxide at Atmospheric Pressure. <i>Chinese Journal of Chemistry</i> , 2010 , 28, 2301-2307	4.9	2
17	Intrinsic mechanisms of calcium sulfite activation by siderite for atrazine degradation. <i>Chemical Engineering Journal</i> , 2021 , 426, 131917	14.7	2
16	Desorption rate of glyphosate from goethite as affected by different entering ligands: hints on the desorption mechanism. <i>Environmental Chemistry</i> , 2017 , 14, 288	3.2	1

15	Resolving humic and fulvic acids in binary systems influenced by adsorptive fractionation to Fe-(hydr)oxide with focus on UV-Vis analysis. <i>Chemical Engineering Journal</i> , 2020 , 389, 124380	14.7	1
14	Goethite effects on transport and activity of lysozyme with humic acid in quartz sand. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 604, 125319	5.1	1
13	Short-term effect of manure and straw application on bacterial and fungal community compositions and abundances in an acidic paddy soil. <i>Journal of Soils and Sediments</i> , 2021 , 21, 3057-3071	3.4	1
12	Microcalorimetric Study on the Growth and Metabolism of a Manganese-Oxidizing Bacterium and its Mutant Strain. <i>Geomicrobiology Journal</i> , 2015 , 32, 585-593	2.5	0
11	Regional differences in mineral weathering characteristics of zonal soils under intensive agriculture. <i>Applied Clay Science</i> , 2021 , 215, 106336	5.2	0
10	Facet-dependent surface charge and Pb adsorption characteristics of hematite nanoparticles: CD-MUSIC-eSGC modeling. <i>Environmental Research</i> , 2021 , 196, 110383	7.9	0
9	Microstructure of Al-substituted goethite and its adsorption performance for Pb(II) and As(V). <i>Science of the Total Environment</i> , 2021 , 790, 148202	10.2	0
8	Disentangling drivers of soil microbial nutrient limitation in intensive agricultural and natural ecosystems. <i>Science of the Total Environment</i> , 2022 , 806, 150555	10.2	0
7	Effect of humic acid on lysozyme interaction with montmorillonite and kaolinite.. <i>Science of the Total Environment</i> , 2022 , 155370	10.2	0
6	Spectroscopic investigation of conformational changes in urease caused by interaction with humic acid.. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 215, 112510	6	0
5	Highly efficient removal of Cu-organic chelate complexes by flow-electrode capacitive deionization-self enhanced oxidation (FCDI-SEO): Dissociation, migration and degradation. <i>Chemical Engineering Journal</i> , 2022 , 445, 136811	14.7	0
4	Contribution of Soil Active Components to the Control of Heavy Metal Speciation 2018 , 165-188		
3	The Influence of Humic Acids on the Activities of Lysozyme and Urease 2013 , 817-821		
2	Influence of reduction on the fluorescent units and proton binding of humic acids: Synchronous fluorescence spectrum and NICA-Donnan modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 626, 127000	5.1	
1	Mechanisms of efficient As(III) and As(V) removal by Ni-coprecipitated hausmannite nanocomposites. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 107684	6.8	