

Wenfeng Tan

List of Publications by Year in descending order

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200
papers

6,061
citations

66336

42
h-index

118840

62
g-index

204
all docs

204
docs citations

204
times ranked

5290
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	8.0	164
2	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.	3.3	157
3	Characteristics of Phosphate Adsorption-Desorption Onto Ferrihydrite. <i>Soil Science</i> , 2013, 178, 1-11.	0.9	155
4	Lead Binding to Soil Fulvic and Humic Acids: NICA-Donnan Modeling and XAFS Spectroscopy. <i>Environmental Science & Technology</i> , 2013, 47, 11634-11642.	10.0	114
5	Improved removal capacity of magnetite for Cr(VI) by electrochemical reduction. <i>Journal of Hazardous Materials</i> , 2019, 374, 26-34.	12.4	108
6	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.	8.0	108
7	Mechanisms of soil humic acid adsorption onto montmorillonite and kaolinite. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 457-467.	9.4	104
8	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.	3.9	100
9	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.	12.7	98
10	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.	5.0	97
11	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.	5.0	92
12	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.	5.6	85
13	Remediation of heavy metal contaminated soils by organic acid extraction and electrochemical adsorption. <i>Environmental Pollution</i> , 2020, 264, 114745.	7.5	85
14	Adsorption and redox reactions of heavy metals on Fe ²⁺ -Mn nodules from Chinese soils. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 600-605.	9.4	83
15	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.	3.9	83
16	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.	8.2	82
17	Interaction between Humic Acid and Lysozyme, Studied by Dynamic Light Scattering and Isothermal Titration Calorimetry. <i>Environmental Science & Technology</i> , 2009, 43, 591-596.	10.0	75
18	Surface properties and phosphate adsorption of binary systems containing goethite and kaolinite. <i>Geoderma</i> , 2014, 213, 478-484.	5.1	74

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19	Relationship Between Pb ²⁺ Adsorption and Average Mn Oxidation State in Synthetic Birnessites. <i>Clays and Clay Minerals</i> , 2009, 57, 513-520.	1.3	71
20	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.	3.9	71
21	Characterization of Co-doped birnessites and application for removal of lead and arsenite. <i>Journal of Hazardous Materials</i> , 2011, 188, 341-349.	12.4	70
22	Cadmium Removal from Aqueous Solution by a Deionization Supercapacitor with a Birnessite Electrode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34405-34413.	8.0	67
23	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.	8.0	67
24	Elemental Composition and Geochemical Characteristics of Iron-Manganese Nodules in Main Soils of China. <i>Pedosphere</i> , 2006, 16, 72-81.	4.0	66
25	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.	11.3	66
26	Influence of Soil Humic and Fulvic Acid on the Activity and Stability of Lysozyme and Urease. <i>Environmental Science & Technology</i> , 2013, 47, 5050-5056.	10.0	63
27	Factor contribution to soil organic and inorganic carbon accumulation in the Loess Plateau: Structural equation modeling. <i>Geoderma</i> , 2019, 352, 116-125.	5.1	62
28	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, 141-151.	9.4	59
29	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.	5.3	58
30	Binding of cationic surfactants to humic substances. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 306, 29-39.	4.7	57
31	Enhanced adsorption removal of arsenic from mining wastewater using birnessite under electrochemical redox reactions. <i>Chemical Engineering Journal</i> , 2019, 375, 122051.	12.7	54
32	Mechanisms of arsenic-containing pyrite oxidation by aqueous arsenate under anoxic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 217, 306-319.	3.9	53
33	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, 121-130.	9.4	52
34	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.	5.6	50
35	High-performance Cu ²⁺ adsorption of birnessite using electrochemically controlled redox reactions. <i>Journal of Hazardous Materials</i> , 2018, 354, 107-115.	12.4	50
36	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.	5.4	49

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37	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, 318-326.	12.4	48
38	Proton and Copper Binding to Humic Acids Analyzed by XAFS Spectroscopy and Isothermal Titration Calorimetry. <i>Environmental Science & Technology</i> , 2018, 52, 4099-4107.	10.0	48
39	Influence of Mn(III) availability on the phase transformation from layered birnessite to tunnel-structured todorokite. <i>Clays and Clay Minerals</i> , 2008, 56, 397-403.	1.3	45
40	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.	10.0	45
41	Photochemical Formation and Transformation of Birnessite: Effects of Cations on Micromorphology and Crystal Structure. <i>Environmental Science & Technology</i> , 2018, 52, 6864-6871.	10.0	45
42	Fourier transform infrared spectroscopy study of acid birnessites before and after Pb ²⁺ adsorption. <i>Clay Minerals</i> , 2012, 47, 191-204.	0.6	44
43	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.	12.7	44
44	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.	3.3	43
45	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.	4.5	43
46	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.	14.7	42
47	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.	1.3	41
48	Environmental significance of mineral weathering and pedogenesis of loess on the southernmost Loess Plateau, China. <i>Geoderma</i> , 2011, 163, 219-226.	5.1	41
49	Characteristics of micromorphology and element distribution of iron-manganese cutans in typical soils of subtropical China. <i>Geoderma</i> , 2008, 146, 40-47.	5.1	40
50	Mechanisms of interaction between arsenian pyrite and aqueous arsenite under anoxic and oxic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 228, 205-219.	3.9	40
51	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.	4.7	39
52	Morphology-dependent enhancement of arsenite oxidation to arsenate on birnessite-type manganese oxide. <i>Chemical Engineering Journal</i> , 2017, 327, 235-243.	12.7	38
53	Photochemical oxidation and dissolution of arsenopyrite in acidic solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 173-185.	3.9	38
54	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

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55	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.	3.3	36
56	Facile synthesis of birnessite-type manganese oxide nanoparticles as supercapacitor electrode materials. <i>Journal of Colloid and Interface Science</i> , 2016, 482, 183-192.	9.4	36
57	The Presence of Ferrihydrite Promotes Abiotic Formation of Manganese (Oxyhydr)oxides. <i>Soil Science Society of America Journal</i> , 2015, 79, 1297-1305.	2.2	35
58	Molecular-Scale Understanding of Sulfate Exchange from Schwertmannite by Chromate Versus Arsenate. <i>Environmental Science & Technology</i> , 2021, 55, 5857-5867.	10.0	35
59	Pathways of birnessite formation in alkali medium. <i>Science in China Series D: Earth Sciences</i> , 2005, 48, 1438-1451.	0.9	34
60	Surface adsorption and precipitation of inositol hexakisphosphate on calcite: A comparison with orthophosphate. <i>Chemical Geology</i> , 2016, 421, 103-111.	3.3	34
61	Solar Irradiation Induced Transformation of Ferrihydrite in the Presence of Aqueous Fe ²⁺ . <i>Environmental Science & Technology</i> , 2019, 53, 8854-8861.	10.0	34
62	Effect of arsenate on adsorption of Cd(II) by two variable charge soils. <i>Chemosphere</i> , 2007, 67, 1949-1955.	8.2	33
63	Cd ²⁺ adsorption performance of tunnel-structured manganese oxides driven by electrochemically controlled redox. <i>Environmental Pollution</i> , 2019, 244, 783-791.	7.5	33
64	Î±-MnO ₂ nanowires transformed from precursor Î±-MnO ₂ by refluxing under ambient pressure: The key role of pH and growth mechanism. <i>Materials Chemistry and Physics</i> , 2011, 125, 678-685.	4.0	32
65	Roles of manganese oxides in degradation of phenol under UV-Vis irradiation: Adsorption, oxidation, and photocatalysis. <i>Journal of Environmental Sciences</i> , 2011, 23, 1904-1910.	6.1	31
66	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.	4.7	31
67	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.	6.1	31
68	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.	3.3	31
69	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, 80-88.	12.4	30
70	CD-MUSIC-EDL Modeling of Pb ²⁺ Adsorption on Birnessites: Role of Vacant and Edge Sites. <i>Environmental Science & Technology</i> , 2018, 52, 10522-10531.	10.0	30
71	Catalytic oxidation and adsorption of Cr(III) on iron-manganese nodules under oxic conditions. <i>Journal of Hazardous Materials</i> , 2020, 390, 122166.	12.4	30
72	Effects of humic acid on adhesion of <i>Bacillus subtilis</i> to phyllosilicates and goethite. <i>Chemical Geology</i> , 2015, 416, 19-27.	3.3	29

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73	Soil shrinkage and hydrostructural characteristics of three swelling soils in Shaanxi, China. <i>Journal of Soils and Sediments</i> , 2011, 11, 474-481.	3.0	28
74	Microstructure, Interaction Mechanisms, and Stability of Binary Systems Containing Goethite and Kaolinite. <i>Soil Science Society of America Journal</i> , 2012, 76, 389-398.	2.2	28
75	Adsorption-Desorption of Myo-Inositol Hexakisphosphate on Hematite. <i>Soil Science</i> , 2014, 179, 476-485.	0.9	28
76	Effects of polyphosphates and orthophosphate on the dissolution and transformation of ZnO nanoparticles. <i>Chemosphere</i> , 2017, 176, 255-265.	8.2	28
77	Dissolution and phase transformation processes of hausmannite in acidic aqueous systems under anoxic conditions. <i>Chemical Geology</i> , 2018, 487, 54-62.	3.3	28
78	Formation of Zn-Al layered double hydroxides (LDH) during the interaction of ZnO nanoparticles (NPs) with ^{13}C - Al_2O_3 . <i>Science of the Total Environment</i> , 2019, 650, 1980-1987.	8.0	28
79	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	27
80	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.	3.9	27
81	Relation of lead adsorption on birnessites with different average oxidation states of manganese and release of $\text{Mn}^{2+}/\text{H}^+/\text{K}^+$. <i>Journal of Environmental Sciences</i> , 2009, 21, 520-526.	6.1	26
82	Synthetic Polymer Affinity Ligand for <i>Bacillus thuringiensis</i> (<i>Bt</i>) Cry1Ab/Ac Protein: The Use of Biomimicry Based on the <i>Bt</i> Protein's Insect Receptor Binding Mechanism. <i>Journal of the American Chemical Society</i> , 2018, 140, 6853-6864.	13.7	26
83	Al-substitution-induced defect sites enhance adsorption of Pb^{2+} on hematite. <i>Environmental Science: Nano</i> , 2019, 6, 1323-1331.	4.3	26
84	Molecular Mechanisms of Lead Binding to Ferrihydrite-Bacteria Composites: ITC, XAFS, and ^{13}C -XRF Investigations. <i>Environmental Science & Technology</i> , 2020, 54, 4016-4025.	10.0	26
85	Electrochemical adsorption of cadmium and arsenic by natural Fe-Mn nodules. <i>Journal of Hazardous Materials</i> , 2020, 390, 122165.	12.4	26
86	Formation of todorokite from Fe^{2+} -disordered Fe^{3+} -birnessites: the roles of average manganese oxidation state and interlayer cations. <i>Geochemical Transactions</i> , 2015, 16, 8.	0.7	25
87	Influence factors for the oxidation of pyrite by oxygen and birnessite in aqueous systems. <i>Journal of Environmental Sciences</i> , 2016, 45, 164-176.	6.1	25
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.	5.6	25
89	Phosphate speciation on Al-substituted goethite: ATR-FTIR/2D-COS and CD-MUSIC modeling. <i>Environmental Science: Nano</i> , 2019, 6, 3625-3637.	4.3	25
90	Oxidation process of dissolvable sulfide by synthesized todorokite in aqueous systems. <i>Journal of Hazardous Materials</i> , 2015, 290, 106-116.	12.4	24

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91	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, 134-142.	8.0	24
92	Lead binding to wild metal-resistant bacteria analyzed by ITC and XAFS spectroscopy. <i>Environmental Pollution</i> , 2019, 250, 118-126.	7.5	24
93	Quantitative analysis of Pb adsorption on sulfhydryl-modified biochar. <i>Biochar</i> , 2021, 3, 37-49.	12.6	24
94	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.	4.4	23
95	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.	6.7	23
96	Photochemical Formation Process of Schwertmannite on Montmorillonite and Corresponding Cr(VI) Adsorption Capacity. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 718-727.	2.7	23
97	Oxidation behavior and kinetics of sulfide by synthesized manganese oxide minerals. <i>Journal of Soils and Sediments</i> , 2011, 11, 1323-1333.	3.0	22
98	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.	8.0	21
99	Effects of Reaction Conditions on the Formation of Todorokite at Atmospheric Pressure. <i>Clays and Clay Minerals</i> , 2006, 54, 605-615.	1.3	20
100	Role of Counteranions in Sol-Gel-Derived Alkoxy-Functionalized Ionic-Liquid-Based Organic-Inorganic Hybrid Coatings for SPME. <i>Chromatographia</i> , 2012, 75, 1421-1433.	1.3	20
101	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.	2.7	20
102	Adsorption and catalytic oxidation of arsenite on Fe-Mn nodules in the presence of oxygen. <i>Chemosphere</i> , 2020, 259, 127503.	8.2	20
103	The alkaline photo-sulfite system triggers Fe(IV/V) generation at hematite surfaces. <i>Chemical Engineering Journal</i> , 2020, 401, 126124.	12.7	20
104	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.	3.0	19
105	Synthesis of MnPO ₄ ·H ₂ O by refluxing process at atmospheric pressure. <i>Solid State Sciences</i> , 2010, 12, 808-813.	3.2	19
106	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.	3.9	19
107	Arsenic detoxification by iron-manganese nodules under electrochemically controlled redox: Mechanism and application. <i>Journal of Hazardous Materials</i> , 2021, 403, 123912.	12.4	19
108	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.	3.7	19

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109	Cobalt-doped todorokites prepared by refluxing at atmospheric pressure as cathode materials for Li batteries. <i>Electrochimica Acta</i> , 2010, 55, 9157-9165.	5.2	18
110	Formation and Transformation of Iron Oxide-Kaolinite Associations in the Presence of Iron(II). <i>Soil Science Society of America Journal</i> , 2011, 75, 45-55.	2.2	18
111	Zn sorption to biogenic bixbyite-like Mn ₂ O ₃ produced by <i>Bacillus CUA</i> isolated from soil: XAFS study with constraints on sorption mechanism. <i>Chemical Geology</i> , 2014, 389, 82-90.	3.3	18
112	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.	4.3	18
113	Symbiosis mechanism of iron and manganese oxides in oxic aqueous systems. <i>Chemical Geology</i> , 2018, 488, 162-170.	3.3	18
114	Mineralogical and pedogenetic evidence for palaeoenvironmental variations during the Holocene on the Loess Plateau, China. <i>Catena</i> , 2012, 96, 49-56.	5.0	17
115	Synthesis of hureaulite by a reflux process at ambient temperature and pressure. <i>Microporous and Mesoporous Materials</i> , 2012, 153, 115-123.	4.4	17
116	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, 40-46.	9.4	17
117	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.	4.0	17
118	Roles of different types of oxalate surface complexes in dissolution process of ferrihydrite aggregates. <i>Scientific Reports</i> , 2018, 8, 2060.	3.3	17
119	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.	7.5	17
120	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.	11.3	17
121	Arsenic release from arsenopyrite oxidative dissolution in the presence of citrate under UV irradiation. <i>Science of the Total Environment</i> , 2020, 726, 138429.	8.0	17
122	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.	6.7	17
123	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.	5.2	16
124	Aging promotes todorokite formation from layered manganese oxide at near-surface conditions. <i>Journal of Soils and Sediments</i> , 2010, 10, 1540-1547.	3.0	16
125	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.	2.6	16
126	Mixed ad/desorption kinetics unraveled with the equilibrium adsorption isotherm. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 709-722.	4.7	16

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127	Adsorption and precipitation of <i>myo</i> -inositol hexakisphosphate onto kaolinite. <i>European Journal of Soil Science</i> , 2020, 71, 226-235.	3.9	16
128	Intrinsic mechanisms of calcium sulfite activation by siderite for atrazine degradation. <i>Chemical Engineering Journal</i> , 2021, 426, 131917.	12.7	16
129	Structural Controls on the Catalytic Polymerization of Hydroquinone by Birnessites. <i>Clays and Clay Minerals</i> , 2011, 59, 525-537.	1.3	15
130	SoilChip-XPS integrated technique to study formation of soil biogeochemical interfaces. <i>Soil Biology and Biochemistry</i> , 2017, 113, 71-79.	8.8	15
131	Effects of <i>Myo</i> -inositol Hexakisphosphate on Zn(II) Sorption on γ -Alumina: A Mechanistic Study. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 787-796.	2.7	15
132	Suppressed phosphorus-mineralizing bacteria after three decades of fertilization. <i>Agriculture, Ecosystems and Environment</i> , 2022, 323, 107679.	5.3	15
133	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.	4.7	14
134	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.	0.7	14
135	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.	2.7	14
136	Preference of Co over Al for substitution of Fe in goethite (α -FeOOH) structure: Mechanism revealed from EXAFS, XPS, DFT and linear free energy correlation model. <i>Chemical Geology</i> , 2020, 532, 119378.	3.3	14
137	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.	8.0	14
138	Sequestration of heavy metals in soil aggregates induced by glomalin-related soil protein: A five-year phytoremediation field study. <i>Journal of Hazardous Materials</i> , 2022, 437, 129445.	12.4	14
139	Abiotic photomineralization and transformation of iron oxide nanominerals in aqueous systems. <i>Environmental Science: Nano</i> , 2018, 5, 1169-1178.	4.3	13
140	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.	3.0	13
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