

# Hongping He

## List of Articles by Year in descending order

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documents

20893

doc citations

12550

74

h-index

26030

citing authors

#	ARTICLE	IF	CITATIONS
1	Mushroom-shaped growth of crystals on the Moon. <i>American Mineralogist</i> , 2025, 110, 171-180.	1.8	1
2	Recovery of rare earth elements from weathering crust soils using electrokinetic mining technology. <i>Journal of Rare Earths</i> , 2025, 43, 1548-1558.	6.4	9
3	Coupled effects of iron (hydr)oxides and clay minerals on the heterogeneous oxidation of aqueous Mn(II) and crystallization of manganese (hydr)oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2025, 388, 167-181.	4.9	6
4	Effect of metal ions on the interlayer structure of vermiculite in solution. , 2025, 45, 1-12.		2
5	Industrial-scale sustainable rare earth mining enabled by electrokinetics. <i>Nature Sustainability</i> , 2025, 8, 182-189.	21.4	38
6	Microbial-mediated bastnaesite dissolution as a viable source of clay-adsorbed rare earth elements in the regolith-hosted deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2025, 394, 43-52.	4.9	5
7	Abnormally heavy cerium stable isotope composition in regolith: Implications for redox tracing. <i>Geochimica Et Cosmochimica Acta</i> , 2025, 394, 357-367.	4.9	12
8	Differences in space weathering between the near and far side of the Moon: evidence from Chang'e-6 samples. <i>National Science Review</i> , 2025, 12, .	9.8	9
9	Formation of carbonatite-related giant rare earth element deposits by liquid immiscibility. <i>Bulletin of the Geological Society of America</i> , 2025, 137, 3233-3242.	2.6	5
10	Exploration of MgSiN <sub>2</sub> ceramic under moderate pressure. <i>Ceramics International</i> , 2025, 51, 25804-25818.	5.4	2
11	Martian Smectites Formation Regulated by Environmental CO <sub>2</sub> and Si. <i>Journal of Geophysical Research E: Planets</i> , 2025, 130, .	3.6	2
12	Growth mechanism of long-period biotite polytypes in the Long Valley magmatic system: A non-equilibrium crystallization model. <i>Applied Clay Science</i> , 2025, 272, 107825.	5.5	0
13	Crystal Chemistry and NIR Spectral Responses of Fe/Mg-Rich Smectites: Implications for Clay Detection on Mars. <i>ACS Earth and Space Chemistry</i> , 2025, 9, 1005-1016.	3.1	0
14	Impact-induced fayalite glass from Chang'e-5 regolith revealed by electron pair distribution function and ReaxFF molecular dynamics. <i>Icarus</i> , 2025, 438, 116643.	2.8	2
15	Electrokinetic transport mechanisms of rare earth elements in ion-adsorption deposits: An integrated model approach. <i>Environmental Technology and Innovation</i> , 2025, 39, 104276.	6.5	2
16	Quantification of ferric iron content in minerals via the STEM-EELS-mapping method. <i>Journal of Analytical Atomic Spectrometry</i> , 2025, 40, 1954-1963.	3.0	1
17	Crustal faulting drives biological redox cycling in the deep subsurface. <i>Science Advances</i> , 2025, 11, .	10.9	6
18	Drying Induces Different Effects on the Selective Adsorption of Cd(II) and Zn(II) on Ferrihydrite and Kaolinite. <i>Langmuir</i> , 2025, 41, 23073-23084.	3.6	2

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19	Co-adsorption of phosphate and rare earth elements (REEs) on goethite induce middle REE-enriched fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2025, 407, 67-80.	4.9	3
20	Microstructural and compositional evolutions during transformation from biotite to berthierine: Implications for phyllosilicate alteration processes. <i>American Mineralogist</i> , 2024, 109, 656-666.	1.8	4
21	Rare earth element enrichment in sedimentary phosphorites formed during the Precambrian–Cambrian transition, Southwest China. <i>Geoscience Frontiers</i> , 2024, 15, 101766.	7.8	3
22	Kinetics of Oriented Attachment of Mica Crystals. <i>Inorganic Chemistry</i> , 2024, 63, 1367-1377.	4.6	1
23	Effects of carbonate on ferrihydrite transformation in alkaline media. <i>Environmental Sciences: Processes and Impacts</i> , 2024, 26, 288-297.	3.2	2
24	Rare earth element enrichment in sedimentary phosphorites formed during the Precambrian–Cambrian transition, Southwest China. <i>Geoscience Frontiers</i> , 2024, 15, 101766.	7.8	13
25	Kinetics of Oriented Attachment of Mica Crystals. <i>Inorganic Chemistry</i> , 2024, 63, 1367-1377.	4.6	3
26	Experimental transformation of nontronite to kaolinite: implication for ferrallitization of Fe/Mg-rich clays in compositional stratigraphy on Mars. <i>Icarus</i> , 2024, 413, 116016.	2.8	3
27	Comments on “was hydrogen peroxide present before the arrival of oxygenic photosynthesis? The important role of iron(II) in the Archean ocean” Redox Biology, 2024, 71, 103111.	10.8	2
28	Transport Model of Rare Earth Elements in Weathering Crusts during Electrokinetic Mining. <i>Minerals (Basel, Switzerland)</i> , 2024, 14, 360.	2.0	3
29	Recovery of Rare Earth Elements from Ion-Adsorption Deposits Using Electrokinetic Technology: The Soil Conductivity Mechanism Study. <i>Minerals (Basel, Switzerland)</i> , 2024, 14, 491.	2.0	8
30	Resistant rare earth phosphates as possible sources of environmental dissolved rare earth elements: Insights from experimental bio-weathering of xenotime and monazite. <i>Chemical Geology</i> , 2024, 661, 122186.	3.5	11
31	Gypsum ridges as conduits for deep methane emission in an evaporite basin— Insights into the origin of atmospheric methane on Mars. <i>Earth and Planetary Science Letters</i> , 2024, 641, 118834.	4.8	6
32	Effect of Al Substitution on Visible Short-Wave Infrared Reflectance Spectroscopy (VSWIR) of Goethite and Ferrihydrite. <i>Minerals (Basel, Switzerland)</i> , 2024, 14, 618.	2.0	5
33	Indigenous microbial influence on REE enrichment and fractionation in South China weathering crusts: Insights from experimental simulations. <i>Chemical Geology</i> , 2024, 663, 122263.	3.5	2
34	The mineralogical evidence for the formation of gold-bearing pyrite through the metasomatism of siderite by the Au-As-S multicomponent fluids. , 2024, 44, 752-762.		1
35	A study on the alteration mechanism of phlogopite phenocrysts in the Lujing Kimberlitic lamprophyre in the Anyuan area, Jiangxi Province. , 2024, 44, 740-751.		0
36	Recovery of rare earth elements from ion-adsorption deposits using electro kinetic technology: A comparative study on leaching agents. <i>Chemical Engineering Journal</i> , 2024, 499, 156094.	12.0	19

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37	Three-Dimensional Electron Diffraction: A Revolutionary Technique for Structure Analysis of Nano-sized Minerals. , 2024, , .		1
38	Modified spectrophotometry for micromolar H <sub>2</sub> O <sub>2</sub> determination in iron-containing solutions with leuco crystal violet under both aerobic and anaerobic conditions. <i>Analytical Methods</i> , 2024, 16, 7460-7467.	2.5	4
39	Reconstruction of Magma Plumbing System and Regional Magmatic Processes via Chemical and Structural Zoning of Biotite in Rhyolite from Long Valley, CA. <i>Journal of Geophysical Research: Solid Earth</i> , 2024, 129, .	3.7	1
40	Atomic-Level Structural Responses of Chang'e-5 Ilmenite to Space Weathering. <i>Journal of Geophysical Research E: Planets</i> , 2024, 129, .	3.6	8
41	How clay delamination supports aseismic slip. <i>American Mineralogist</i> , 2023, 108, 87-99.	1.8	6
42	Heterogeneous and retarded phase transformation of ferrihydrite on montmorillonite surface: The important role of surface interactions. <i>American Mineralogist</i> , 2023, 108, 865-880.	1.8	13
43	Mn substitution and distribution in goethite and influences on its photocatalytic properties: A combined study using first-principles calculations and photocatalytic experiments. <i>American Mineralogist</i> , 2023, 108, 968-977.	1.8	2
44	Local structure determination of Zn-smectite. <i>American Mineralogist</i> , 2023, 108, 1357-1367.	1.8	6
45	Zircon texture and composition fingerprint HREE enrichment in muscovite granite bedrock of the Dabu ion-adsorption REE deposit, South China. <i>Chemical Geology</i> , 2023, 616, 121231.	3.5	27
46	Nanoscale chemomechanical variations of montmorillonite induced by the specificity of counterions: An in situ XRD and AFM study. <i>Applied Clay Science</i> , 2023, 232, 106760.	5.5	6
47	Mobilization and fractionation of rare earth elements during experimental bio-weathering of granites. <i>Geochimica Et Cosmochimica Acta</i> , 2023, 343, 384-395.	4.9	36
48	Nanoscale Mineralogical Characterization of Terrestrial and Extraterrestrial Samples by Transmission Electron Microscopy: A Review. <i>ACS Earth and Space Chemistry</i> , 2023, 7, 289-302.	3.1	17
49	Ubiquitous and progressively increasing ferric iron content on the lunar surfaces revealed by the Chang'e-5 sample. <i>Nature Astronomy</i> , 2023, 7, 280-286.	12.8	42
50	Hydrothermal alteration and the remobilization of rare earth elements during reprecipitation of nano-scale apatite in phosphorites. <i>Lithos</i> , 2023, 444-445, 107113.	1.3	7
51	A mineral-based origin of Earth's initial hydrogen peroxide and molecular oxygen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	7.5	63
52	X-ray Diffraction and Trace Element Analyses of K/Pg Boundary Samples Collected from Agost and Caravaca, Spain. <i>Crystals</i> , 2023, 13, 670.	2.1	2
53	Geodynamic oxidation of Archean terrestrial surfaces. <i>Communications Earth &amp; Environment</i> , 2023, 4, .	6.8	16
54	Accumulation, translocation, and fractionation of rare earth elements (REEs) in fern species of hyperaccumulators and non-hyperaccumulators growing in urban areas. <i>Science of the Total Environment</i> , 2023, 905, 167344.	8.4	23

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55	Percolation of Low-Dimensional Water at Crystalline Interfaces Mediates Fluid Migration in Subducting Slabs. <i>Journal of Geophysical Research: Solid Earth</i> , 2023, 128, .	3.7	0
56	Distribution and Fractionation of Rare Earth Elements (REE) in the Ion Adsorption-type REE Deposit (IAD) at Maofeng Mountain, Guangzhou, China. <i>Clays and Clay Minerals</i> , 2023, 71, 340-361.	1.9	11
57	Surface-induced oxidation of Mn(II) and crystallization of manganese (hydr)oxides on clay minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2023, 363, 129-146.	4.9	34
58	Environmental effects on ammonium adsorption onto clay minerals: Experimental constraints and applications. <i>Applied Clay Science</i> , 2023, 246, 107165.	5.5	31
59	Kinetics, stoichiometry, and mechanism of arsenopyrite-water interaction under anoxic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2023, 363, 68-76.	4.9	4
60	Surface-dependent generation of reactive oxygen species at pyrite-water interface. <i>AIP Advances</i> , 2023, 13, .	1.2	1
61	Incorporation of incompatible trace elements into molybdenite: Layered PbS precipitates within molybdenite. <i>American Mineralogist</i> , 2022, 107, 54-64.	1.8	16
62	Magnetite-rutile symplectite in ilmenite records magma hydration in layered intrusions. <i>American Mineralogist</i> , 2022, 107, 395-404.	1.8	7
63	Periodic and non-periodic stacking in molybdenite (MoS <sub>2</sub> ) revealed by STEM. <i>American Mineralogist</i> , 2022, 107, 997-1006.	1.8	13
64	FEASIBILITY OF VISIBLE SHORT-WAVE INFRARED REFLECTANCE SPECTROSCOPY TO CHARACTERIZE REGOLITH-HOSTED RARE EARTH ELEMENT MINERALIZATION. <i>Economic Geology</i> , 2022, 117, 495-508.	4.1	16
65	Replacement of magnetite by hematite in hydrothermal systems: A refined redox-independent model. <i>Earth and Planetary Science Letters</i> , 2022, 577, 117282.	4.8	27
66	Slope streaks in the Yingxiong Range, the western Qaidam Basin and implications for Mars. <i>Geomorphology</i> , 2022, 398, 108062.	3.1	3
67	Distinct effects of transition metal (cobalt, manganese and nickel) ion substitutions on the abiotic oxidation of pyrite: In view of hydroxyl radical production. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 321, 170-183.	4.9	28
68	Environmental risk assessment of the potential "Chemical Time Bomb" of ion-adsorption type rare earth elements in urban areas. <i>Science of the Total Environment</i> , 2022, 822, 153305.	8.4	56
69	Liguowuite, WO <sub>3</sub> , a new member of the A-site vacant perovskite type minerals from the Panzhihua "Xichang region, China. <i>European Journal of Mineralogy</i> , 2022, 34, 95-108.	1.2	4
70	The Composition and Growth Mechanism of Coexisting 4M2 and 4A8 Biotite Polytypes from Rhyolite of Long Valley Caldera, California. <i>Clays and Clay Minerals</i> , 2022, 70, 48-61.	1.9	4
71	Competitive adsorption of alkali ions on aqueous mica surface: A force field comparison molecular dynamics study. <i>Applied Clay Science</i> , 2022, 219, 106436.	5.5	16
72	Transformation of Ordered Albite into Kaolinite: Implication for the "Booklet" Morphology. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1133-1142.	3.1	14

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73	Superimposed microstructures of pyrite in auriferous quartz veins as fingerprints of episodic fluid infiltration in the Wulong Lode gold deposit, NE China. <i>Mineralium Deposita</i> , 2022, 57, 685-700.	3.9	26
74	Photoreductive Dissolution of Iron (Hydr)oxides and Its Geochemical Significance. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 811-829.	3.1	55
75	Evaluating the physicochemical conditions for gold occurrences in pyrite. <i>American Mineralogist</i> , 2022, 108, 211-216.	1.8	5
76	Reduction of acid mine drainage by passivation of pyrite surfaces: A review. <i>Science of the Total Environment</i> , 2022, 832, 155116.	8.4	69
77	The growth process of saponite: A study based on particle size distributions and morphological evolution. <i>Applied Clay Science</i> , 2022, 221, 106463.	5.5	5
78	The different effects of sulfate on the adsorption of REEs on kaolinite and ferrihydrite. <i>Applied Clay Science</i> , 2022, 221, 106468.	5.5	21
79	Carbonate accelerated transformation of ferrihydrite in the presence of phosphate. <i>Geoderma</i> , 2022, 417, 115811.	6.3	14
80	Enhanced immobilization of phosphate by ferrihydrite during the photoreductive dissolution process. <i>Science of the Total Environment</i> , 2022, 838, 155835.	8.4	14
81	Weathering of Chlorite Illite Deposits in the Hyperarid Qaidam Basin: Implications to Post-Depositional Alteration on Martian Clay Minerals. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.6	10
82	Microorganisms Accelerate REE Mineralization in Supergene Environments. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	3.6	34
83	Multiple Growth Mechanisms of 2:1 Type Layered Aluminosilicates during Mineral Transformation. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1930-1936.	3.1	5
84	Coupled redox cycling of Fe and Mn in the environment: The complex interplay of solution species with Fe- and Mn-(oxyhydr)oxide crystallization and transformation. <i>Earth-Science Reviews</i> , 2022, 232, 104105.	8.6	109
85	Historical development of Al <sub>3</sub> O highlighting the unique characteristics and application in water treatment: A review. <i>Coordination Chemistry Reviews</i> , 2022, 473, 214807.	23.1	14
86	Thiol-Functionalized Hybridized Porous Polymer on Polyurethane Foam for Recyclable Adsorption of Multiple Ions. <i>ACS Applied Polymer Materials</i> , 2022, 4, 7373-7386.	4.6	4
87	A green and efficient technology to recover rare earth elements from weathering crusts. <i>Nature Sustainability</i> , 2022, 6, 81-92.	21.4	143
88	Hyperenrichment of gold in pyrite induced by solid-state transportation. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	18
89	Competitive adsorption geometries for the arsenate As(V) and phosphate P(V) oxyanions on magnetite surfaces: Experiments and theory. <i>American Mineralogist</i> , 2021, 106, 374-388.	1.8	40
90	Massive Deposition of Carbonate Nodules in the Hyperarid Northwest Qaidam Basin of the Northern Tibetan Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	2.6	9

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91	Environmental-sulfur-controlled surface properties of pyrite: a first principles PBE+U study. <i>Physics and Chemistry of Minerals</i> , 2021, 48, .	1.5	16
92	Fluid pathway evolution and mass transfer during Mg-dominated mineral transformations. <i>Applied Clay Science</i> , 2021, 207, 106097.	5.5	2
93	Development of novel multifunctional adsorbent by effectively hosting both zwitterionic surfactant and hydrated ferric oxides in montmorillonite. <i>Science of the Total Environment</i> , 2021, 774, 144974.	8.4	7
94	A new type of polygonal terrain formed by sulfate weathering in arid regions. <i>Geomorphology</i> , 2021, 383, 107695.	3.1	6
95	Evidence for a two-stage particle attachment mechanism for phyllosilicate crystallization in geological processes. <i>American Mineralogist</i> , 2021, 106, 983-993.	1.8	12
96	Technical development of characterization methods provides insights into clay mineral-water interactions: A comprehensive review. <i>Applied Clay Science</i> , 2021, 206, 106088.	5.5	54
97	REE fractionation controlled by REE speciation during formation of the Renju regolith-hosted REE deposits in Guangdong Province, South China. <i>Ore Geology Reviews</i> , 2021, 134, 104172.	3.1	53
98	Brain-terrain-like features in the Qaidam Basin: Implications for various morphological features on Mars. <i>Icarus</i> , 2021, 363, 114434.	2.8	8
99	Characteristics and genesis of ion adsorption type REE deposits in the weathering crusts of metamorphic rocks in Ningdu, Ganzhou, China. <i>Ore Geology Reviews</i> , 2021, 135, 104173.	3.1	48
100	Uranium re-adsorption on uranium mill tailings and environmental implications. <i>Journal of Hazardous Materials</i> , 2021, 416, 126153.	12.5	84
101	Facet-specific oxidation of Mn(II) and heterogeneous growth of manganese (oxyhydr)oxides on hematite nanoparticles. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 307, 151-167.	4.9	43
102	Hydrothermal activity during the formation of REY-rich phosphorites in the early Cambrian Gezhongwu Formation, Zhijin, South China: A micro- and nano-scale mineralogical study. <i>Ore Geology Reviews</i> , 2021, 136, 104224.	3.1	26
103	Groundwater controls REE mineralisation in the regolith of South China. <i>Chemical Geology</i> , 2021, 577, 120295.	3.5	56
104	Ferrihydrite Transformation Impacted by Adsorption and Structural Incorporation of Rare Earth Elements. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2768-2777.	3.1	35
105	The evolution of saponite: An experimental study based on crystal chemistry and crystal growth. <i>American Mineralogist</i> , 2021, 106, 909-921.	1.8	5
106	An abiotic source of Archean hydrogen peroxide and oxygen that pre-dates oxygenic photosynthesis. <i>Nature Communications</i> , 2021, 12, .	13.7	92
107	Visible/near infrared reflectance (VNIR) spectral features of ion-exchangeable Rare earth elements hosted by clay minerals: Potential use for exploration of regolith-hosted REE deposits. <i>Applied Clay Science</i> , 2021, 215, 106320.	5.5	19
108	Functionalized layered double hydroxides for innovative applications. <i>Materials Horizons</i> , 2020, 7, 715-745.	10.2	282

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109	Closest-Packing Water Monolayer Stably Intercalated in Phyllosilicate Minerals under High Pressure. <i>Langmuir</i> , 2020, 36, 618-627.	3.6	10
110	A novel multifunctional adsorbent synthesized by modifying acidified organo-montmorillonite with iron hydroxides. <i>Applied Clay Science</i> , 2020, 185, 105420.	5.5	37
111	Layered intercalation compounds: Mechanisms, new methodologies, and advanced applications. <i>Progress in Materials Science</i> , 2020, 109, 100631.	35.7	129
112	Crystal Growth of Smectite: A Study Based on the Change in Crystal Chemistry and Morphology of Saponites with Synthesis Time. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 14-23.	3.1	11
113	Carbonate-Enhanced Transformation of Ferrihydrite to Hematite. <i>Environmental Science &amp; Technology</i> , 2020, 54, 13701-13708.	11.1	56
114	Organoclay-derived lamellar silicon carbide/carbon composite as an ideal support for Pt nanoparticles: facile synthesis and toluene oxidation performance. <i>Chemical Communications</i> , 2020, 56, 9489-9492.	3.4	3
115	Coupling between clay swelling/collapse and cationic partition. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 285, 78-99.	4.9	47
116	Diatomite-Metal-Organic Framework Composite with Hierarchical Pore Structures for Adsorption/Desorption of Hydrogen, Carbon Dioxide and Water Vapor. <i>Materials</i> , 2020, 13, 4700.	2.9	25
117	Intrinsic water layering next to soft, solid, hydrophobic, and hydrophilic substrates. <i>Journal of Chemical Physics</i> , 2020, 153, .	2.8	3
118	Kaolinization of 2:1 type clay minerals with different swelling properties. <i>American Mineralogist</i> , 2020, 105, 687-696.	1.8	51
119	Effects of Fullerol and Graphene Oxide on the Phase Transformation of Two-Line Ferrihydrite. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 335-344.	3.1	25
120	One-pot synthesis of the reduced-charge montmorillonite via molten salts treatment. <i>Applied Clay Science</i> , 2020, 186, 105429.	5.5	15
121	Heterogeneous Nucleation and Growth of CaCO <sub>3</sub> on Calcite (104) and Aragonite (110) Surfaces: Implications for the Formation of Abiogenic Carbonate Cements in the Ocean. <i>Minerals (Basel)</i> , 2020, 10, 1078.	1.0	1
122	CNTs/ferrihydrite as a highly efficient heterogeneous Fenton catalyst for the degradation of bisphenol A: The important role of CNTs in accelerating Fe(III)/Fe(II) cycling. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118891.	20.5	237
123	Pressure-temperature diagram of wetting and dewetting in a hydrophobic grain boundary and the liquidlike to icelike transition of monolayer water. <i>Physical Review B</i> , 2020, 101, .	3.4	5
124	Formation of saponite by hydrothermal alteration of metal oxides: Implication for the rarity of hydrotalcite. <i>American Mineralogist</i> , 2019, 104, 1156-1164.	1.8	11
125	Adsorption of REEs on kaolinite and halloysite: A link to the REE distribution on clays in the weathering crust of granite. <i>Chemical Geology</i> , 2019, 525, 210-217.	3.5	180
126	Keggin-Al <sub>30</sub> : An intercalant for Keggin-Al <sub>30</sub> pillared montmorillonite. <i>Applied Clay Science</i> , 2019, 180, 105203.	5.5	20

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127	Transformation of boehmite into 2:1 type layered aluminosilicates with different layer charges under hydrothermal conditions. <i>Applied Clay Science</i> , 2019, 181, 105207.	5.5	9
128	The structural change of vermiculite during dehydration processes: A real-time in-situ XRD method. <i>Applied Clay Science</i> , 2019, 183, 105332.	5.5	40
129	Preservation of Cyanobacterial UV-Radiation Shielding Pigment Scytonemin in Carbonate Ooids Formed in Pleistocene Salt Lakes in the Qaidam Basin, Tibetan Plateau. <i>Geophysical Research Letters</i> , 2019, 46, 10375-10383.	4.1	18
130	Crystal habit-directed gold deposition on pyrite: Surface chemical interpretation of the pyrite morphology indicative of gold enrichment. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 264, 191-204.	4.9	43
131	Sequestration of Gaseous Hg <sup>0</sup> by Sphalerite with Fe Substitution: Performance, Mechanism, and Structure-Activity Relationship. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2828-2836.	3.1	23
132	In situ synthesis of a silicon flake/nitrogen-doped graphene-like carbon composite from organoclay for high-performance lithium-ion battery anodes. <i>Chemical Communications</i> , 2019, 55, 2644-2647.	3.4	54
133	The distinct effects of substitution and deposition of Ag in perovskite LaCoO <sub>3</sub> on the thermally catalytic oxidation of toluene. <i>Applied Surface Science</i> , 2019, 489, 905-912.	6.7	74
134	Strategies for enhancing the heterogeneous Fenton catalytic reactivity: A review. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117739.	20.5	1,025
135	Kinetics and mechanisms of the interaction between the calcite (10.4) surface and Cu <sup>2+</sup> -bearing solutions. <i>Science of the Total Environment</i> , 2019, 668, 602-616.	8.4	22
136	Heterogeneous Reduction of 2-Chloronitrobenzene by Co-substituted Magnetite Coupled with Aqueous Fe <sup>2+</sup> : Performance, Factors, and Mechanism. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 728-737.	3.1	8
137	Understanding the role of natural clay minerals as effective adsorbents and alternative source of rare earth elements: Adsorption operative parameters. <i>Hydrometallurgy</i> , 2019, 185, 149-161.	4.7	128
138	The catalytic oxidation of formaldehyde over palygorskite-supported copper and manganese oxides: Catalytic deactivation and regeneration. <i>Applied Surface Science</i> , 2019, 464, 287-293.	6.7	84
139	Arrangement Models of Keggin-Al <sub>30</sub> and Keggin-Al <sub>13</sub> in the Interlayer of Montmorillonite and the Impacts of Pillaring on Surface Acidity: A Comparative Study on Catalytic Oxidation of Toluene. <i>Langmuir</i> , 2019, 35, 382-390.	3.6	30
140	TiO <sub>2</sub> /Schwertmannite nanocomposites as superior co-catalysts in heterogeneous photo-Fenton process. <i>Journal of Environmental Sciences</i> , 2019, 80, 208-217.	6.9	22
141	The mechanism of defect induced hydroxylation on pyrite surfaces and implications for hydroxyl radical generation in prebiotic chemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 163-172.	4.9	51
142	Degradation of 2,4-dichlorophenol using palygorskite-supported bimetallic Fe/Ni nanocomposite as a heterogeneous catalyst. <i>Applied Clay Science</i> , 2019, 168, 276-286.	5.5	48
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146	Enhanced photoelectrochemical degradation of Ibuprofen and generation of hydrogen via BiOI-deposited TiO <sub>2</sub> nanotube arrays. <i>Science of the Total Environment</i> , 2018, 633, 1198-1205.	8.4	38
147	Heterogeneous photo-Fenton degradation of bisphenol A over Ag/AgCl/ferrihydrite catalysts under visible light. <i>Chemical Engineering Journal</i> , 2018, 346, 567-577.	12.0	191
148	Catalytic degradation of Orange II in aqueous solution using diatomite-supported bimetallic Fe/Ni nanoparticles. <i>RSC Advances</i> , 2018, 8, 7687-7696.	4.4	41
149	Superior thermal stability of Keggin-Al 30 pillared montmorillonite: A comparative study with Keggin-Al 13 pillared montmorillonite. <i>Microporous and Mesoporous Materials</i> , 2018, 265, 104-111.	4.6	31
150	Improvement of zinc substitution in the reactivity of magnetite coupled with aqueous Fe(II) towards nitrobenzene reduction. <i>Journal of Colloid and Interface Science</i> , 2018, 517, 104-112.	9.9	16
151	Pyrolysis behaviors of organic matter (OM) with the same alkyl main chain but different functional groups in the presence of clay minerals. <i>Applied Clay Science</i> , 2018, 153, 205-216.	5.5	36
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153	Selective loading of 5-fluorouracil in the interlayer space of methoxy-modified kaolinite for controlled release. <i>Applied Clay Science</i> , 2018, 159, 102-106.	5.5	77
154	Interaction of polyhydroxy fullerenes with ferrihydrite: adsorption and aggregation. <i>Journal of Environmental Sciences</i> , 2018, 64, 1-9.	6.9	24
155	Effect of acid activation of palygorskite on their toluene adsorption behaviors. <i>Applied Clay Science</i> , 2018, 159, 60-67.	5.5	103
156	From natural clay minerals to porous silicon nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 76-83.	4.6	27
157	Structural effects on dissolution of silica polymorphs in various solutions. <i>Inorganica Chimica Acta</i> , 2018, 471, 57-65.	2.8	16
158	Plasmonic Ag coated Zn/Ti-LDH with excellent photocatalytic activity. <i>Applied Surface Science</i> , 2018, 433, 458-467.	6.7	109
159	Calcined Mg/Al-LDH for acidic wastewater treatment: Simultaneous neutralization and contaminant removal. <i>Applied Clay Science</i> , 2018, 153, 46-53.	5.5	47
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161	Calcined Mg/Al layered double hydroxides as efficient adsorbents for polyhydroxy fullerenes. <i>Applied Clay Science</i> , 2018, 151, 66-72.	5.5	26
162	Adsorption of ammonium by different natural clay minerals: Characterization, kinetics and adsorption isotherms. <i>Applied Clay Science</i> , 2018, 159, 83-93.	5.5	312

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169	Visible-light Ag/AgBr/ferrihydrite catalyst with enhanced heterogeneous photo-Fenton reactivity via electron transfer from Ag/AgBr to ferrihydrite. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 280-289.	20.5	164
170	Influences of Cation Ratio, Anion Type, and Water Content on Polytypism of Layered Double Hydroxides. <i>Inorganic Chemistry</i> , 2018, 57, 7299-7313.	4.6	36
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172	Metal occupancy and its influence on thermal stability of synthetic saponites. <i>Applied Clay Science</i> , 2017, 135, 282-288.	5.5	24
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175	Mechanisms for the enhanced photo-Fenton activity of ferrihydrite modified with BiVO <sub>4</sub> at neutral pH. <i>Applied Catalysis B: Environmental</i> , 2017, 212, 50-58.	20.5	227
176	Nanogeosciences: Research History, Current Status, and Development Trends. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5930-5965.	0.6	74
177	Effects of complexation between organic matter (OM) and clay mineral on OM pyrolysis. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 212, 1-15.	4.9	115
178	Reduction removal of hexavalent chromium by zinc-substituted magnetite coupled with aqueous Fe(II) at neutral pH value. <i>Journal of Colloid and Interface Science</i> , 2017, 500, 20-29.	9.9	31
179	Influence of interlayer species on the thermal characteristics of montmorillonite. <i>Applied Clay Science</i> , 2017, 135, 129-135.	5.5	55
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182	Preparation of functionalized kaolinite/epoxy resin nanocomposites with enhanced thermal properties. <i>Applied Clay Science</i> , 2017, 148, 103-108.	5.5	59
183	Adsorption isotherm, mechanism, and geometry of Pb(II) on magnetites substituted with transition metals. <i>Chemical Geology</i> , 2017, 470, 132-140.	3.5	48
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190	Enhanced photocatalytic activity of Zn/Ti-LDH via hybridizing with C60. <i>Molecular Catalysis</i> , 2017, 427, 54-61.	2.2	37
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