Xiaoliang Liang

List of Publications by Year
in descending order

64 papers	2,638 citations	172457 29 h-index	197818 49 g-index
65 all docs	65 docs citations	65 times ranked	3147 citing authors

#	Article	IF	Citations
1	Environmental risk assessment of the potential â€œChemical Time Bombâ€• of ion-adsorption type rare earth elements in urban areas. Science of the Total Environment, 2022, 822, 153305.	8.0	24
2	Effect of electron structure on the catalytic activity of LaCoO₃ perovskite towards toluene oxidation. Chemical Communications, 2022, 58, 4731-4734.	4.1	7
3	Transformation of Ordered Albite into Kaolinite: Implication for the â€œBookletâ€• Morphology. ACS Earth and Space Chemistry, 2022, 6, 1133-1142.	2.7	3
4	Photoreductive Dissolution of Iron (Hydr)oxides and Its Geochemical Significance. ACS Earth and Space Chemistry, 2022, 6, 811-829.	2.7	14
5	Microorganisms Accelerate REE Mineralization in Supergene Environments. Applied and Environmental Microbiology, 2022, 88, .	3.1	9
6	Effects of Zr substitution on soot combustion over cubic fluorite-structured nanoceria: Soot-ceria contact and interfacial oxygen evolution. Journal of Environmental Sciences, 2021, 101, 293-303.	6.1	12
7	The Competitive Adsorption of Chromate and Sulfate on Ni-Substituted Magnetite Surfaces: An ATR-FTIR Study. Minerals (Basel, Switzerland), 2021, 11, 88.	2.0	4
8	Competitive adsorption geometries for the arsenate As(V) and phosphate P(V) oxyanions on magnetite surfaces: Experiments and theory. American Mineralogist, 2021, 106, 374-388.	1.9	24
9	Insight into the effect of manganese substitution on mesoporous hollow spinel cobalt oxides for catalytic oxidation of toluene. Journal of Colloid and Interface Science, 2021, 594, 713-726.	9.4	70
10	Ferrihydrite Transformation Impacted by Adsorption and Structural Incorporation of Rare Earth Elements. ACS Earth and Space Chemistry, 2021, 5, 2768-2777.	2.7	9
11	Metal Substitution-Induced Reducing Capacity of Magnetite Coupled with Aqueous Fe(II). ACS Earth and Space Chemistry, 2020, 4, 905-911.	2.7	5
12	Facile surface improvement of LaCoO₃ perovskite with high activity and water resistance towards toluene oxidation: Ca substitution and citric acid etching. Catalysis Science and Technology, 2020, 10, 5829-5839.	4.1	40
13	Activity of manganese oxides supported on halloysite towards the thermal catalytic oxidation of formaldehyde: Constraint from the manganese precursor. Applied Clay Science, 2019, 182, 105280.	5.2	20
14	The structural change of vermiculite during dehydration processes: A real-time in-situ XRD method. Applied Clay Science, 2019, 183, 105332.	5.2	26
15	Crystal habit-directed gold deposition on pyrite: Surface chemical interpretation of the pyrite morphology indicative of gold enrichment. Geochimica Et Cosmochimica Acta, 2019, 264, 191-204.	3.9	24
16	Sequestration of Gaseous Hg⁰ by Sphalerite with Fe Substitution: Performance, Mechanism, and Structureâ€"Activity Relationship. Journal of Physical Chemistry C, 2019, 123, 2828-2836.	3.1	21
17	The significant effect of photo-catalyzed redox reactions on the immobilization of chromium by hematite. Chemical Geology, 2019, 524, 228-236.	3.3	13
18	Immobilization of facet-engineered Ag3PO4 on mesoporous Al2O3 for efficient industrial waste gas purification with indoor LED illumination. Applied Catalysis B: Environmental, 2019, 256, 117811.	20.2	27

#	ARTICLE	IF	CITATIONS
19	The distinct effects of substitution and deposition of Ag in perovskite LaCoO3 on the thermally catalytic oxidation of toluene. Applied Surface Science, 2019, 489, 905-912.	6.1	47
20	Heterogeneous Reduction of 2-Chloronitrobenzene by Co-substituted Magnetite Coupled with Aqueous Fe²⁺: Performance, Factors, and Mechanism. ACS Earth and Space Chemistry, 2019, 3, 728-737.	2.7	7
21	Effects of Mn²⁺, Ni²⁺, and Cu²⁺ on the Formation and Transformation of Hydrosulfate Green Rust: Reaction Processes and Underlying Mechanisms. ACS Earth and Space Chemistry, 2019, 3, 519-530.	2.7	14
22	The catalytic oxidation of formaldehyde over palygorskite-supported copper and manganese oxides: Catalytic deactivation and regeneration. Applied Surface Science, 2019, 464, 287-293.	6.1	64
23	The mechanism of defect induced hydroxylation on pyrite surfaces and implications for hydroxyl radical generation in prebiotic chemistry. Geochimica Et Cosmochimica Acta, 2019, 244, 163-172.	3.9	26
24	Degradation of 2,4-dichlorophenol using palygorskite-supported bimetallic Fe/Ni nanocomposite as a heterogeneous catalyst. Applied Clay Science, 2019, 168, 276-286.	5.2	40
25	Diphenamid degradation via sulfite activation under visible LED using Fe (III) impregnated N-doped TiO2 photocatalyst. Applied Catalysis B: Environmental, 2019, 244, 823-835.	20.2	71
26	Remarkable effect of Co substitution in magnetite on the reduction removal of Cr(VI) coupled with aqueous Fe(II): Improvement mechanism and Cr fate. Science of the Total Environment, 2019, 656, 400-408.	8.0	14
27	Catalytic degradation of Orange II in aqueous solution using diatomite-supported bimetallic Fe/Ni nanoparticles. RSC Advances, 2018, 8, 7687-7696.	3.6	29
28	Improvement of zinc substitution in the reactivity of magnetite coupled with aqueous Fe(II) towards nitrobenzene reduction. Journal of Colloid and Interface Science, 2018, 517, 104-112.	9.4	12
29	Surface structure-dependent pyrite oxidation in relatively dry and moist air: Implications for the reaction mechanism and sulfur evolution. Geochimica Et Cosmochimica Acta, 2018, 228, 259-274.	3.9	58
30	Synergetic effect of Cu and Mn oxides supported on palygorskite for the catalytic oxidation of formaldehyde: Dispersion, microstructure, and catalytic performance. Applied Clay Science, 2018, 161, 265-273.	5.2	55
31	Effects of Mn average oxidation state on the oxidation behaviors of As(III) and Cr(III) by vernadite. Applied Geochemistry, 2018, 94, 35-45.	3.0	23
32	Anchoring Fe₃O₄ Nanoparticles on Carbon Nanotubes for Microwave-Induced Catalytic Degradation of Antibiotics. ACS Applied Materials & Interfaces, 2018, 10, 29467-29475.	8.0	83
33	Reduction removal of hexavalent chromium by zinc-substituted magnetite coupled with aqueous Fe(II) at neutral pH value. Journal of Colloid and Interface Science, 2017, 500, 20-29.	9.4	23
34	<i>In Situ</i> Emergency Disposal of Liquid Mercury Leakage by Fe-Containing Sphalerite: Performance and Reaction Mechanism. Industrial & Engineering Chemistry Research, 2017, 56, 153-160.	3.7	28
35	H₂S-Modified Natural Ilmenite: A Recyclable Magnetic Sorbent for Recovering Gaseous Elemental Mercury from Flue Gas. Industrial & Engineering Chemistry Research, 2017, 56, 10060-10068.	3.7	29
36	Adsorption isotherm, mechanism, and geometry of Pb(II) on magnetites substituted with transition metals. Chemical Geology, 2017, 470, 132-140.	3.3	37

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37	An efficient catalyst of manganese supported on diatomite for toluene oxidation: Manganese species, catalytic performance, and structure-activity relationship. Microporous and Mesoporous Materials, 2017, 239, 101-110.	4.4	54
38	Magnetite exsolution in ilmenite from the Fe-Ti oxide gabbro in the Xinjie intrusion (SW China) and sources of unusually strong remnant magnetization. American Mineralogist, 2016, 101, 2759-2767.	1.9	15
39	Morphology controllable syntheses of micro- and nano-iron pyrite mono- and poly-crystals: a review. RSC Advances, 2016, 6, 31988-31999.	3.6	22
40	Fullerene modification of Ag₃PO₄ for the visible-light-driven degradation of acid red 18. RSC Advances, 2016, 6, 85962-85969.	3.6	15
41	The associations of heavy metals with crystalline iron oxides in the polluted soils around the mining areas in Guangdong Province, China. Chemosphere, 2016, 161, 181-189.	8.2	82
42	Aggregative growth of quasi-octahedral iron pyrite mesocrystals in a polyol solution through oriented attachment. CrystEngComm, 2016, 18, 8823-8828.	2.6	12
43	Mechanisms on the morphology variation of hematite crystals by Al substitution: The modification of Fe and O reticular densities. Scientific Reports, 2016, 6, 35960.	3.3	43
44	Performance of Ti-pillared montmorillonite supported Fe catalysts for toluene oxidation: The effect of Fe on catalytic activity. Applied Clay Science, 2016, 132-133, 96-104.	5.2	47
45	BiVO4/Fe/Mt composite for visible-light-driven degradation of acid red 18. Applied Clay Science, 2016, 129, 27-34.	5.2	21
46	Ag₃PO₄ immobilized on hydroxy-metal pillared montmorillonite for the visible light driven degradation of acid red 18. Catalysis Science and Technology, 2016, 6, 4116-4123.	4.1	35
47	Effects of Al3+ doping on the structure and properties of goethite and its adsorption behavior towards phosphate. Journal of Environmental Sciences, 2016, 45, 18-27.	6.1	31
48	The variation of cationic microstructure in Mn-doped spinel ferrite during calcination and its effect on formaldehyde catalytic oxidation. Journal of Hazardous Materials, 2016, 306, 305-312.	12.4	38
49	Effect of Mn substitution on the promoted formaldehyde oxidation over spinel ferrite: Catalyst characterization, performance and reaction mechanism. Applied Catalysis B: Environmental, 2016, 182, 476-484.	20.2	149
50	Simultaneous adsorption of Cd(<scp>ii</scp>) and phosphate on Al₁₃ pillared montmorillonite. RSC Advances, 2015, 5, 77227-77234.	3.6	39
51	The oxidation state and microstructural environment of transition metals (V, Co, and Ni) in magnetite: an XAFS study. Physics and Chemistry of Minerals, 2015, 42, 373-383.	0.8	16
52	Natural Magnetite: an efficient catalyst for the degradation of organic contaminant. Scientific Reports, 2015, 5, 10139.	3.3	55
53	Magnetite-rutile symplectite derived from ilmenite-hematite solid solution in the Xinjie Fe-Ti oxide-bearing, mafic-ultramafic layered intrusion (SW China). American Mineralogist, 2015, 100, 2348-2351.	1.9	22
54	The distinct effects of Mn substitution on the reactivity of magnetite in heterogeneous Fenton reaction and Pb(II) adsorption. Journal of Colloid and Interface Science, 2014, 426, 181-189.	9.4	40

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55	The constraints of transition metal substitutions (Ti, Cr, Mn, Co and Ni) in magnetite on its catalytic activity in heterogeneous Fenton and UV/Fenton reaction: From the perspective of hydroxyl radical generation. Applied Catalysis B: Environmental, 2014, 150-151, 612-618.	20.2	130
56	The influence of substituting metals (Ti, V, Cr, Mn, Co and Ni) on the thermal stability of magnetite. Journal of Thermal Analysis and Calorimetry, 2013, 111, 1317-1324.	3.6	19
57	The effect of transition metal substitution on the catalytic activity of magnetite in heterogeneous Fenton reaction: In interfacial view. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 435, 28-35.	4.7	54
58	A comparative study about the effects of isomorphous substitution of transition metals (Ti, Cr, Mn,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 29-34.	4.8	70
59	Heterogeneous UV/Fenton degradation of TBBPA catalyzed by titanomagnetite: Catalyst characterization, performance and degradation products. Water Research, 2012, 46, 4633-4644.	11.3	164
60	The application of chromium substituted magnetite as heterogeneous Fenton catalyst for the degradation of aqueous cationic and anionic dyes. Chemical Engineering Journal, 2012, 191, 177-184.	12.7	110
61	The contribution of vanadium and titanium on improving methylene blue decolorization through heterogeneous UV-Fenton reaction catalyzed by their co-doped magnetite. Journal of Hazardous Materials, 2012, 199-200, 247-254.	12.4	95
62	The decolorization of Acid Orange II in non-homogeneous Fenton reaction catalyzed by natural vanadiumâ€“titanium magnetite. Journal of Hazardous Materials, 2010, 181, 112-120.	12.4	109
63	The remarkable effect of vanadium doping on the adsorption and catalytic activity of magnetite in the decolorization of methylene blue. Applied Catalysis B: Environmental, 2010, 97, 151-159.	20.2	98
64	Preparation and characterization of 3-aminopropyltriethoxysilane grafted montmorillonite and acid-activated montmorillonite. Science Bulletin, 2009, 54, 265-271.	9.0	27