

Qinfu Liu

List of Publications by Year in descending order

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65
papers

2,074
citations

201674

27
h-index

254184

43
g-index

66
all docs

66
docs citations

66
times ranked

1782
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrokinetic Energy Conversion in Self-Assembled 2D Nanofluidic Channels with Janus Nanobuilding Blocks. <i>Advanced Materials</i> , 2017, 29, 1700177.	21.0	170
2	The thermal behavior of kaolinite intercalation complexes-A review. <i>Thermochimica Acta</i> , 2012, 545, 1-13.	2.7	164
3	Properties of vulcanized rubber nanocomposites filled with nanokaolin and precipitated silica. <i>Applied Clay Science</i> , 2008, 42, 232-237.	5.2	121
4	Classification and carbon structural transformation from anthracite to natural coaly graphite by XRD, Raman spectroscopy, and HRTEM. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 249, 119286.	3.9	96
5	Structural order evaluation and structural evolution of coal derived natural graphite during graphitization. <i>Carbon</i> , 2020, 157, 714-723.	10.3	76
6	Delamination of kaolinite-potassium acetate intercalates by ball-milling. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 355-359.	9.4	70
7	Nanogeosciences: Research History, Current Status, and Development Trends. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5930-5965.	0.9	67
8	Strategic Design of Clay-Based Multifunctional Materials: From Natural Minerals to Nanostructured Membranes. <i>Advanced Functional Materials</i> , 2019, 29, 1807611.	14.9	65
9	Chrysanthemum extract assisted green reduction of graphene oxide. <i>Materials Chemistry and Physics</i> , 2016, 183, 76-82.	4.0	64
10	Geochemical and petrographic analysis of graphitized coals from Central Hunan, China. <i>International Journal of Coal Geology</i> , 2018, 195, 267-279.	5.0	59
11	Insight into the self-adaptive deformation of kaolinite layers into nanoscrolls. <i>Applied Clay Science</i> , 2016, 124-125, 175-182.	5.2	54
12	Combined experimental and theoretical investigation of interactions between kaolinite inner surface and intercalated dimethyl sulfoxide. <i>Applied Surface Science</i> , 2015, 331, 234-240.	6.1	50
13	Mechanism of kaolinite sheets curling via the intercalation and delamination process. <i>Journal of Colloid and Interface Science</i> , 2015, 444, 74-80.	9.4	49
14	Nanofluidic energy conversion and molecular separation through highly stable clay-based membranes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14089-14096.	10.3	45
15	Intercalation of dodecylamine into kaolinite and its layering structure investigated by molecular dynamics simulation. <i>Journal of Colloid and Interface Science</i> , 2014, 430, 345-350.	9.4	41
16	Thermal decomposition of selected coal gangue. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 1413-1422.	3.6	40
17	Thermal stability of styrene butadiene rubber (SBR) composites filled with kaolinite/silica hybrid filler. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1013-1020.	3.6	39
18	Thermal behavior analysis of kaolinite-dimethylsulfoxide intercalation complex. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1167-1172.	3.6	35

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19	Mechanism Associated with Kaolinite Intercalation with Urea: Combination of Infrared Spectroscopy and Molecular Dynamics Simulation Studies. <i>Journal of Physical Chemistry C</i> , 2017, 121, 402-409.	3.1	35
20	Micro-Raman Spectroscopy of Microscopically Distinguishable Components of Naturally Graphitized Coals from Central Hunan Province, China. <i>Energy & Fuels</i> , 2019, 33, 1037-1048.	5.1	34
21	An infrared spectroscopic comparison of four Chinese palygorskites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 784-789.	3.9	33
22	Mechanism responsible for intercalation of dimethyl sulfoxide in kaolinite: Molecular dynamics simulations. <i>Applied Clay Science</i> , 2018, 151, 46-53.	5.2	33
23	TG&MS&FTIR (evolved gas analysis) of kaolinite&urea intercalation complex. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 195-203.	3.6	32
24	Quantifying the Structural Transitions of Chinese Coal to Coal-Derived Natural Graphite by XRD, Raman Spectroscopy, and HRTEM Image Analyses. <i>Energy & Fuels</i> , 2021, 35, 2335-2346.	5.1	32
25	Structural Evolution of High-Rank Coals during Coalification and Graphitization: X-ray Diffraction, Raman Spectroscopy, High-Resolution Transmission Electron Microscopy, and Reactive Force Field Molecular Dynamics Simulation Study. <i>Energy & Fuels</i> , 2021, 35, 2087-2097.	5.1	31
26	Thermal analysis and Infrared emission spectroscopic study of kaolinite&potassium acetate intercalate complex. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 103, 507-513.	3.6	30
27	Insight into morphology and structure of different particle sized kaolinites with same origin. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 99-106.	9.4	29
28	Simultaneous Reduction and Polymerization of Graphene Oxide/Styrene Mixtures To Create Polymer Nanocomposites with Tunable Dielectric Constants. <i>ACS Applied Nano Materials</i> , 2020, 3, 962-968.	5.0	28
29	Insight into the thermal decomposition of kaolinite intercalated with potassium acetate: an evolved gas analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 1231-1239.	3.6	24
30	Graphene Synthesis via Chemical Reduction of Graphene Oxide Using Lemon Extract. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6518-6523.	0.9	24
31	Influence of order degree of coaly graphite on its structure change during preparation of graphene oxide. <i>Journal of Materiomics</i> , 2020, 6, 628-641.	5.7	23
32	Thermal behavior of kaolinite&urea intercalation complex and molecular dynamics simulation for urea molecule orientation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 189-196.	3.6	21
33	Intercalation and Exfoliation of Kaolinite with Sodium Dodecyl Sulfate. <i>Minerals (Basel)</i> , 2021, 11, 1071.	2.0	21
34	Raman spectroscopy of intruded coals from the Illinois Basin: Correlation with rank and estimated alteration temperature. <i>International Journal of Coal Geology</i> , 2020, 219, 103369.	5.0	21
35	Molecular-Level Investigation of the Adsorption Mechanisms of Toluene and Aniline on Natural and Organically Modified Montmorillonite. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11199-11207.	2.5	20
36	Thermal behavior analysis of two bentonite samples selected from China. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 1287-1295.	3.6	18

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37	Thermodynamic Mechanism and Interfacial Structure of Kaolinite Intercalation and Surface Modification by Alkane Surfactants with Neutral and Ionic Head Groups. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8824-8831.	3.1	18
38	Effect of pretreatment on microstructure and photocatalytic activity of kaolinite/TiO ₂ composite. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 87, 676-684.	2.4	18
39	Hierarchical Structure Kaolinite Nanospheres with Remarkably Enhanced Adsorption Properties for Methylene Blue. <i>Nanoscale Research Letters</i> , 2019, 14, 104.	5.7	17
40	Interfacial structure and interaction of kaolinite intercalated with N -methylformamide insight from molecular dynamics modeling. <i>Applied Clay Science</i> , 2018, 158, 204-210.	5.2	15
41	Investigation of the carbon structure of naturally graphitized coals from Central Hunan, China, by density-gradient centrifugation, X-ray diffraction, and high-resolution transmission electron microscopy. <i>International Journal of Coal Geology</i> , 2020, 232, 103628.	5.0	15
42	Evolved gas analysis of coal-derived pyrite/marcasite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 887-894.	3.6	14
43	Quantitative investigation on the structural characteristics and evolution of high-rank coals from Xinhua, Hunan Province, China. <i>Fuel</i> , 2021, 289, 119945.	6.4	14
44	The origins of kaolinite-rich rocks associated with coal measures in China. <i>Clay Minerals</i> , 2001, 36, 389-402.	0.6	12
45	Thermal phase transition of pyrite from coal. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 2391-2396.	3.6	12
46	Molecular Dynamics Simulation of Basal Spacing, Energetics, and Structure Evolution of a Kaolinite-Formamide Intercalation Complex and Their Interfacial Interaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3341-3349.	3.1	11
47	Molecular Structure and Decomposition Kinetics of Kaolinite/Alkylamine Intercalation Compounds. <i>Frontiers in Chemistry</i> , 2018, 6, 310.	3.6	10
48	The structural evolution and mutation of graphite derived from coal under the influence of natural igneous plutonic intrusion. <i>Fuel</i> , 2022, 322, 124066.	6.4	10
49	Influence of kaolinite particle size on cross-link density, microstructure and mechanical properties of latex blending styrene butadiene rubber composites. <i>Polymer Science - Series A</i> , 2015, 57, 350-358.	1.0	9
50	Genesis of Kaolinite Deposits in the Jungar Coalfield, North China: Petrological, Mineralogical and Geochemical Evidence. <i>Acta Geologica Sinica</i> , 2021, 95, 517-530.	1.4	9
51	An efficient method to prepare aluminosilicate nanoscrolls under mild conditions. <i>Chemical Communications</i> , 2021, 57, 789-792.	4.1	9
52	Mineralogy, Geochemistry, and Genesis of Kaolinitic Claystone Deposits in the Datong Coalfield, Northern China. <i>Clays and Clay Minerals</i> , 2021, 69, 68-93.	1.3	9
53	Kaolinite Nanomaterials: Preparation, Properties and Functional Applications. , 2019, , 285-334.		8
54	Investigation on the Microstructure Evolution of High-Rank Coal from Xinhua County, Hunan, China. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6976-6981.	0.9	8

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55	Influence of the structural characteristic of pyrolysis products on thermal stability of styrene-butadiene rubber composites reinforced by different particle sized kaolinities. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 1201-1210.	3.6	7
56	Effect of reaction temperature on intercalation of octyltrimethylammonium chloride into kaolinite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1555-1564.	3.6	7
57	Fluctuations in Graphitization of Coal Seam-Derived Natural Graphite upon Approaching the Qitianling Granite Intrusion, Hunan, China. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1147.	2.0	7
58	Quantitative characterization of kaolinite dispersibility in styrene-butadiene rubber composites by fractal dimension. <i>Polymer Composites</i> , 2015, 36, 1486-1493.	4.6	6
59	The molecular structure of chloritoid: A mid-infrared and near-infrared spectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 604-609.	3.9	6
60	Control of coal-bearing claystone composition by sea level and redox conditions: An example from the Upper Paleozoic of the Datong Basin, North China. <i>Applied Clay Science</i> , 2021, 211, 106204.	5.2	6
61	Palaeoclimate, palaeosalinity and redox conditions control palygorskite claystone formation: an example from the Yangtaiwatan Basin, northwest China. <i>Clay Minerals</i> , 2021, 56, 210-221.	0.6	6
62	Structural Model and De-Intercalation Kinetics of Kaolinite-Methanol-Sodium Stearate Intercalation Compound. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	5
63	Dispersibility of Kaolinite-Rich Coal Gangue in Rubber Matrix and the Mechanical Properties and Thermal Stability of the Composites. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1388.	2.0	4
64	Geochemical characteristics and the significance of two major coal-bearing strata claystones from the Datong Coalfield (North China). <i>Geological Journal</i> , 2022, 57, 1938-1956.	1.3	3
65	Case study of the igneous intrusion effect on the mineralogical composition of the Carboniferous coal from Jingxi Coalfield, North China. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	2.7	0