

# Hongfei Cheng

## List of Publications by Year in descending order

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66  
papers

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citations

172386

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times ranked

1948  
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.	11.1	170
2	The thermal behavior of kaolinite intercalation complexes-A review. <i>Thermochimica Acta</i> , 2012, 545, 1-13.	1.2	164
3	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.	2.0	96
4	High-efficiency photo-Fenton Fe/g-C <sub>3</sub> N <sub>4</sub> /kaolinite catalyst for tetracycline hydrochloride degradation. <i>Applied Clay Science</i> , 2021, 212, 106213.	2.6	86
5	Infrared and infrared emission spectroscopic study of typical Chinese kaolinite and halloysite. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 1014-1020.	2.0	76
6	Green reduction of graphene oxide via <i>Lycium barbarum</i> extract. <i>Journal of Solid State Chemistry</i> , 2017, 246, 351-356.	1.4	72
7	Delamination of kaolinite-potassium acetate intercalates by ball-milling. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 355-359.	5.0	70
8	A spectroscopic comparison of selected Chinese kaolinite, coal bearing kaolinite and halloysite-A mid-infrared and near-infrared study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 856-861.	2.0	69
9	Strategic Design of Clay-Based Multifunctional Materials: From Natural Minerals to Nanostructured Membranes. <i>Advanced Functional Materials</i> , 2019, 29, 1807611.	7.8	65
10	Chrysanthemum extract assisted green reduction of graphene oxide. <i>Materials Chemistry and Physics</i> , 2016, 183, 76-82.	2.0	64
11	Pore structure heterogeneity of Wufeng-Longmaxi shale, Sichuan Basin, China: Evidence from gas physisorption and multifractal geometries. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109313.	2.1	59
12	Thermal behavior and decomposition of kaolinite-potassium acetate intercalation composite. <i>Thermochimica Acta</i> , 2010, 503-504, 16-20.	1.2	57
13	Influencing factors on kaolinite-potassium acetate intercalation complexes. <i>Applied Clay Science</i> , 2010, 50, 476-480.	2.6	56
14	Insight into the self-adaptive deformation of kaolinite layers into nanoscrolls. <i>Applied Clay Science</i> , 2016, 124-125, 175-182.	2.6	54
15	New insights into the molecular structure of kaolinite-methanol intercalation complexes. <i>Applied Clay Science</i> , 2015, 109-110, 55-63.	2.6	53
16	Thermal analysis and infrared emission spectroscopic study of halloysite-potassium acetate intercalation compound. <i>Thermochimica Acta</i> , 2010, 511, 124-128.	1.2	52
17	Combined experimental and theoretical investigation of interactions between kaolinite inner surface and intercalated dimethyl sulfoxide. <i>Applied Surface Science</i> , 2015, 331, 234-240.	3.1	50
18	The molecular structure of kaolinite-potassium acetate intercalation complexes: A combined experimental and molecular dynamic simulation study. <i>Applied Clay Science</i> , 2015, 116-117, 273-280.	2.6	50

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19	Mechanism of kaolinite sheets curling via the intercalation and delamination process. <i>Journal of Colloid and Interface Science</i> , 2015, 444, 74-80.	5.0	49
20	Infrared spectroscopic study of halloysite-potassium acetate intercalation complex. <i>Journal of Molecular Structure</i> , 2011, 990, 21-25.	1.8	47
21	Nanofluidic energy conversion and molecular separation through highly stable clay-based membranes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14089-14096.	5.2	45
22	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.	5.0	41
23	Mechanism of dehydroxylation temperature decrease and high temperature phase transition of coal-bearing strata kaolinite intercalated by potassium acetate. <i>Journal of Colloid and Interface Science</i> , 2012, 376, 47-56.	5.0	40
24	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.	2.0	39
25	Gas barrier properties and mechanism of kaolin/styrene-butadiene rubber nanocomposites. <i>Applied Clay Science</i> , 2015, 111, 37-43.	2.6	39
26	Thermal behavior analysis of kaolinite-dimethylsulfoxide intercalation complex. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1167-1172.	2.0	35
27	A high-strength and ultra-stable halloysite nanotubes-crosslinked polyacrylamide hydrogel electrolyte for flexible zinc-ion batteries. <i>Journal of Power Sources</i> , 2021, 506, 230196.	4.0	35
28	Infrared transmission and emission spectroscopic study of selected Chinese palygorskites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 518-524.	2.0	34
29	Mechanism responsible for intercalation of dimethyl sulfoxide in kaolinite: Molecular dynamics simulations. <i>Applied Clay Science</i> , 2018, 151, 46-53.	2.6	33
30	TG-MS-FTIR (evolved gas analysis) of kaolinite-urea intercalation complex. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 195-203.	2.0	32
31	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.	2.0	30
32	Rational design of kaolinite-based photocatalytic materials for environment decontamination. <i>Applied Clay Science</i> , 2021, 208, 106098.	2.6	30
33	Intercalation of $\gamma$ -aminopropyl triethoxysilane (APTES) into kaolinite interlayer with methanol-grafted kaolinite as intermediate. <i>Applied Clay Science</i> , 2015, 114, 484-490.	2.6	29
34	An interfacial coating with high corrosion resistance based on halloysite nanotubes for anode protection of zinc-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 859-867.	5.0	29
35	High-yield production of mesoporous nanoscrolls from kaolinite by ultrasonic assisted exfoliation. <i>Microporous and Mesoporous Materials</i> , 2017, 241, 66-71.	2.2	26
36	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.	2.0	24

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37	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
38	Kaolinite nanotube-stearic acid composite as a form-stable phase change material for thermal energy storage. <i>Applied Clay Science</i> , 2021, 201, 105930.	2.6	24
39	Raman spectroscopy of coal component of Late Permian coals from Southern China. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 132, 767-770.	2.0	23
40	A comparison of molecular structure and de-intercalation kinetics of kaolinite/quaternary ammonium salt and alkylamine intercalation compounds. <i>Journal of Solid State Chemistry</i> , 2018, 268, 36-44.	1.4	23
41	Transition of synthetic chromium oxide gel to crystalline chromium oxide: a hot-stage Raman spectroscopic study. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1069-1074.	1.2	21
42	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.	2.0	21
43	Structure comparison of Orpiment and Realgar by Raman spectroscopy. <i>Spectroscopy Letters</i> , 2017, 50, 23-29.	0.5	21
44	Thermal decomposition behavior and de-intercalation kinetics of kaolinite/quaternary ammonium salt complexes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 421-433.	2.0	19
45	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.	1.5	18
46	Time-efficient preparation and mechanism of methoxy-grafted kaolinite via acid treatment and heating. <i>Applied Clay Science</i> , 2019, 174, 170-177.	2.6	18
47	Effect of acid activation on structural evolution and surface charge of different derived kaolinites. <i>Applied Clay Science</i> , 2021, 203, 105997.	2.6	18
48	A new method for determining platy particle aspect ratio: A kaolinite case study. <i>Applied Clay Science</i> , 2014, 97-98, 125-131.	2.6	17
49	Polycyclic aromatic hydrocarbons in soil of the backfilled region in the Wuda coal fire area, Inner Mongolia, China. <i>Ecotoxicology and Environmental Safety</i> , 2018, 165, 434-439.	2.9	17
50	Evolved gas analysis of coal-derived pyrite/marcasite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 887-894.	2.0	14
51	The formation mechanism of organoammonium-kaolinite by solid-solid reaction. <i>Applied Clay Science</i> , 2017, 146, 195-200.	2.6	14
52	Thermal phase transition of pyrite from coal. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 2391-2396.	2.0	12
53	Large-scale orientated self-assembled halloysite nanotubes membrane with nanofluidic ion transport properties. <i>Applied Clay Science</i> , 2019, 180, 105184.	2.6	12
54	Synthesis of bismuth oxyiodide/kaolinite composite with enhanced photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 161, 110424.	1.9	12

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55	Molecular Structure and Decomposition Kinetics of Kaolinite/Alkylamine Intercalation Compounds. <i>Frontiers in Chemistry</i> , 2018, 6, 310.	1.8	10
56	Visible and near-infrared spectroscopic comparison of five phyllosilicate mineral samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 180, 19-22.	2.0	8
57	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
58	Effect of reaction temperature on intercalation of octyltrimethylammonium chloride into kaolinite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1555-1564.	2.0	7
59	Effect of alkylamine chain length on high-temperature phase transformation and thermal decomposition process of kaolinite intercalation compounds. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109170.	1.9	7
60	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.	2.0	6
61	Structural and spectroscopic study of arsenate and vanadate incorporation into apatite group: Implications for semi-quantitative estimation of As and V contents in apatite. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 488-494.	2.0	6
62	The Translation Mechanism of Smectite to Illite: An Infrared Spectroscopic Study of Ordered Mixed-Layer Illite/Smectite. <i>Spectroscopy Letters</i> , 2014, 47, 543-548.	0.5	4
63	Thermal Migration Behavior of Na <sup>+</sup> , Cu <sup>2+</sup> and Li <sup>+</sup> in Montmorillonite. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 477.	0.8	4
64	CO <sub>2</sub> fixation mechanism of kaolin treated with organic amines at varied temperatures and pressure. <i>Applied Clay Science</i> , 2022, 228, 106638.	2.6	4
65	Reconstructed nanoclay-based membranes with nanofluidic channels for ultra-stable rechargeable Zn/MnO <sub>2</sub> batteries. <i>Journal of Power Sources</i> , 2022, 526, 231128.	4.0	1
66	High-performance composite separators based on the synergy of vermiculite and laponite for lithium-ion batteries. <i>Soft Matter</i> , 2022, 18, 2522-2527.	1.2	1