Chun Hui Zhou

List of Publications by Citations

52 papers	2,435 citations	26 h-index	49 g-index
55 ext. papers	2,982 ext. citations	5.1 avg, IF	5.51 L-index

#	Paper	IF	Citations
52	An overview on strategies towards clay-based designer catalysts for green and sustainable catalysis. *Applied Clay Science*, **2011**, 53, 87-96	5.2	185
51	Fundamental and applied research on clay minerals: From climate and environment to nanotechnology. *Applied Clay Science*, **2013**, 74, 3-9	5.2	179
50	Adsorption of proteins and nucleic acids on clay minerals and their interactions: A review. *Applied Clay Science*, **2013**, 80-81, 443-452	5.2	167
49	Exfoliation of montmorillonite and related properties of clay/polymer nanocomposites. *Applied Clay Science*, **2019**, 169, 48-66	5.2	154
48	Recent Advances in Catalytic Conversion of Glycerol. *Catalysis Reviews - Science and Engineering*, **2013**, 55, 369-453	12.6	144
47	Environmental-friendly montmorillonite-biochar composites: Facile production and tunable adsorption-release of ammonium and phosphate. *Journal of Cleaner Production*, **2017**, 156, 648-659	10.3	132
46	Immobilization of enzymes on clay minerals for biocatalysts and biosensors. *Applied Clay Science*, **2015**, 114, 283-296	5.2	104
45	Adsorption of methylene blue from aqueous solution onto porous cellulose-derived carbon/montmorillonite nanocomposites. *Applied Clay Science*, **2018**, 161, 256-264	5.2	102
44	Recent advances in clay mineral-containing nanocomposite hydrogels. *Soft Matter*, **2015**, 11, 9229-46	3.6	90
43	Towards an understanding of the role of clay minerals in crude oil formation, migration and accumulation. *Earth-Science Reviews*, **2012**, 115, 373-386	10.2	83
42	Fourier transform infrared spectroscopy analysis for hydrothermal transformation of microcrystalline cellulose on montmorillonite. *Applied Clay Science*, **2014**, 95, 74-82	5.2	82
41	Adsorption of Acid Red G dye on octadecyl trimethylammonium montmorillonite. *Applied Clay Science*, **2010**, 50, 427-431	5.2	81
40	Functional magnetic nanoparticle/clay mineral nanocomposites: preparation, magnetism and versatile applications. *Applied Clay Science*, **2016**, 127-128, 143-163	5.2	79
39	Current fundamental and applied research into clay minerals in China. *Applied Clay Science*, **2016**, 119, 3-7	5.2	68
38	Exfoliation of layered double hydroxide solids into functional nanosheets. *Applied Clay Science*, **2017**, 144, 60-78	5.2	65
37	Bentonite hydrochar composite for removal of ammonium from Koi fish tank. *Applied Clay Science*, **2016**, 119, 146-154	5.2	60
36	Catalytic dehydration of glycerol to acrolein over sulfuric acid-activated montmorillonite catalysts. *Applied Clay Science*, **2013**, 74, 154-162	5.2	60

35	Clean production of CTAB-montmorillonite: formation mechanism and swelling behavior in xylene. *Applied Clay Science*, **2014**, 97-98, 222-234	5.2	51
34	Structure and catalytic properties of Sn-containing layered double hydroxides synthesized in the presence of dodecylsulfate and dodecylamine. *Applied Clay Science*, **2010**, 48, 569-574	5.2	49
33	Improved lead removal from aqueous solution using novel porous bentonite - and calcite-biochar composite. *Science of the Total Environment*, **2020**, 709, 136171	10.2	48
32	Catalytic hydrolysis of cellulose to reducing sugar over acid-activated montmorillonite catalysts. *Applied Clay Science*, **2013**, 74, 147-153	5.2	44
31	Effects of acid treatments on bamboo cellulose nanocrystals. *Asia-Pacific Journal of Chemical Engineering*, **2014**, 9, 686-695	1.3	43
30	Nanoclay-based drug delivery systems and their therapeutic potentials. *Journal of Materials Chemistry B*, **2020**, 8, 7335-7351	7.3	37
29	Novel hydrothermal carbonization of cellulose catalyzed by montmorillonite to produce kerogen-like hydrochar. *Cellulose*, **2014**, 21, 2845-2857	5.5	30
28	Insight into formation of montmorillonite-hydrochar nanocomposite under hydrothermal conditions. *Applied Clay Science*, **2016**, 119, 116-125	5.2	29
27	Modification, hybridization and applications of saponite: An overview. *Applied Clay Science*, **2019**, 168, 136-154	5.2	26
26	Roles of texture and acidity of acid-activated sepiolite catalysts in gas-phase catalytic dehydration of glycerol to acrolein. *Molecular Catalysis*, **2017**, 434, 219-231	3.3	25
25	Coking of Catalysts in Catalytic Glycerol Dehydration to Acrolein. *Industrial & Engineering Chemistry Research*, **2018**, 57, 10736-10753	3.9	23
24	Immobilization of Candida rugosa lipase on hexagonal mesoporous silicas and selective esterification in nonaqueous medium. *Biochemical Engineering Journal*, **2013**, 70, 97-105	4.2	23
23	Generation and characterization of catalytic nanocomposite materials of highly isolated iron nanoparticles dispersed in clays. *Topics in Catalysis*, **2006**, 39, 213-219	2.3	22
22	Catalytic cracking of rosin over acid-activated montmorillonite catalysts. *Applied Clay Science*, **2014**, 100, 123-128	5.2	18
21	Tracked changes of dolomite into Ca-Mg-Al layered double hydroxide. *Applied Clay Science*, **2018**, 159, 25-36	5.2	14
20	Clay minerals in drilling fluids: functions and challenges. *Clay Minerals*, **2020**, 55, 1-11	1.3	13
19	Preparation of Organo-Montmorillonites and the Relationship Between Microstructure and Swellability. *Clays and Clay Minerals*, **2017**, 65, 417-430	2.1	13
18	Preparation and application of novel rice husk biochar□alcite composites for phosphate removal from aqueous medium. *Journal of Cleaner Production*, **2021**, 299, 126802	10.3	13

17	Bentonite-hydrochar composite for removal of ammonium from Koi fish tank. *Applied Clay Science*, **2015**, 114, 467	5.2	12
16	Capture and recycling of ammonium by dolomite-aided struvite precipitation and thermolysis. *Chemosphere*, **2017**, 187, 302-310	8.4	12
15	Co-intercalation of organic cations/amide molecules into montmorillonite with tunable hydrophobicity and swellability. *Applied Clay Science*, **2019**, 179, 105157	5.2	11
14	Catalytic glycerol dehydration-oxidation to acrylic acid. *Catalysis Reviews - Science and Engineering*, **2020**, 62, 481-523	12.6	11
13	ORGANO-MODIFICATION OF MONTMORILLONITE. *Clays and Clay Minerals*, **2020**, 68, 601-622	2.1	9
12	Modification of inorganic porous materials as gene vectors: an overview. *Journal of Porous Materials*, **2015**, 22, 927-937	2.4	8
11	Interactions between smectites and polyelectrolytes. *Applied Clay Science*, **2020**, 198, 105778	5.2	6
10	On how montmorillonite as an ingredient in animal feed functions. *Applied Clay Science*, **2021**, 202, 105963	5.2	4
9	Immobilization of lipase onto aminopropyl-functionalized MSU-H type mesoporous silica and esterification. *Korean Journal of Chemical Engineering*, **2015**, 32, 1694-1700	2.8	1
8	Recent advances in engineering montmorillonite into catalysts and related catalysis. *Catalysis Reviews - Science and Engineering*,1-57	12.6	1
7	Inclusion of organic species in exfoliated montmorillonite nanolayers towards hierarchical functional inorganic-organic nanostructures. *Soft Matter*, **2021**, 17, 9819-9841	3.6	1
6	Structure, genesis and resources efficiency of dolomite: New insights and remaining enigmas. *Chemical Geology*, **2021**, 573, 120191	4.2	1
5	In situ fabrication of layered double hydroxide film immobilizing gold nanoparticles in capillary microreactor for efficient catalytic carbonylation of glycerol. *Molecular Catalysis*, **2021**, 513, 111825	3.3	1
4	Unveiling the contribution of Mo, V and W oxides to coking in catalytic glycerol oxidehydration. *Molecular Catalysis*, **2021**, 516, 111969	3.3	0
3	Functional Montmorillonite/Polymer Coatings. *Clays and Clay Minerals*,	2.1	0
2	DISPERSION AND SWELLABILITY OF TERNARY SURFACTANT CO-MODIFIED MONTMORILLONITES. *Clays and Clay Minerals*,1	2.1	
1	Cleaner continuous flow production of mesoporous calcium-magnesium silicate as a potential biomaterial. *Journal of Porous Materials*, **2020**, 27, 503-513	2.4	