

# Qi Tao

## List of Publications by Year in descending order

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53  
papers

2,288  
citations

201674

27  
h-index

214800

47  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2591  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics, isotherm, thermodynamic, and adsorption mechanism studies of La(OH) <sub>3</sub> -modified exfoliated vermiculites as highly efficient phosphate adsorbents. <i>Chemical Engineering Journal</i> , 2014, 236, 191-201.	12.7	256
2	Adsorption of ammonium by different natural clay minerals: Characterization, kinetics and adsorption isotherms. <i>Applied Clay Science</i> , 2018, 159, 83-93.	5.2	218
3	A combined study by XRD, FTIR, TG and HRTEM on the structure of delaminated Fe-intercalated/pillared clay. <i>Journal of Colloid and Interface Science</i> , 2008, 324, 142-149.	9.4	167
4	Silylation of clay mineral surfaces. <i>Applied Clay Science</i> , 2013, 71, 15-20.	5.2	134
5	Adsorption of phenol and Cu(II) onto cationic and zwitterionic surfactant modified montmorillonite in single and binary systems. <i>Chemical Engineering Journal</i> , 2016, 283, 880-888.	12.7	112
6	Nanomaterials based upon silylated layered double hydroxides. <i>Applied Surface Science</i> , 2009, 255, 4334-4340.	6.1	73
7	Preparation and characterization of zwitterionic surfactant-modified montmorillonites. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 386-392.	9.4	70
8	Montmorillonite/chitosan nanoparticles as a novel controlled-release topical ophthalmic delivery system for the treatment of glaucoma. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 3975-3987.	6.7	70
9	Synthesis and characterization of layered double hydroxides with a high aspect ratio. <i>Journal of Solid State Chemistry</i> , 2006, 179, 708-715.	2.9	68
10	In situ synthesis of surfactant/silane-modified hydrotalcites. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 498-504.	9.4	64
11	Food Safety Supervision System Based on Hierarchical Multi-Domain Blockchain Network. <i>IEEE Access</i> , 2019, 7, 51817-51826.	4.2	62
12	Silylation of montmorillonite surfaces: Dependence on solvent nature. <i>Journal of Colloid and Interface Science</i> , 2013, 391, 16-20.	9.4	59
13	Surface chemistry and reactivity of SiO <sub>2</sub> polymorphs: A comparative study on $\alpha$ -quartz and $\beta$ -cristobalite. <i>Applied Surface Science</i> , 2015, 355, 1161-1167.	6.1	56
14	Locking effect: A novel insight in the silylation of montmorillonite surfaces. <i>Materials Chemistry and Physics</i> , 2012, 136, 292-295.	4.0	48
15	Effect of surfactant concentration on the stacking modes of organo-silylated layered double hydroxides. <i>Applied Clay Science</i> , 2009, 45, 262-269.	5.2	46
16	A novel ion-exchange carrier based upon liposome-encapsulated montmorillonite for ophthalmic delivery of betaxolol hydrochloride. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 1731-1745.	6.7	46
17	Synthesis and infrared spectroscopic characterization of selected layered double hydroxides containing divalent Ni and Co. <i>Materials Chemistry and Physics</i> , 2008, 112, 869-875.	4.0	43
18	Preparation of functionalized kaolinite/epoxy resin nanocomposites with enhanced thermal properties. <i>Applied Clay Science</i> , 2017, 148, 103-108.	5.2	43

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19	From used montmorillonite to carbon monolayered montmorillonite nanocomposites. <i>Applied Clay Science</i> , 2014, 100, 112-117.	5.2	39
20	Silylation of layered double hydroxides via an induced hydrolysis method. <i>Journal of Materials Chemistry</i> , 2011, 21, 10711.	6.7	37
21	Silylation of saponite with 3-aminopropyltriethoxysilane. <i>Applied Clay Science</i> , 2016, 132-133, 133-139.	5.2	37
22	Preparation and in vitro study of lipid nanoparticles encapsulating drug loaded montmorillonite for ocular delivery. <i>Applied Clay Science</i> , 2016, 119, 277-283.	5.2	37
23	Hyperledger Fabric Access Control System for Internet of Things Layer in Blockchain-Based Applications. <i>Entropy</i> , 2021, 23, 1054.	2.2	34
24	Phenol and/or Zn <sup>2+</sup> adsorption by single- or dual-cation organomontmorillonites. <i>Applied Clay Science</i> , 2017, 140, 1-9.	5.2	33
25	Silylation of Layered Double Hydroxides via a Calcination~Rehydration Route. <i>Langmuir</i> , 2010, 26, 2769-2773.	3.5	30
26	Tailoring surface properties and structure of layered double hydroxides using silanes with different number of functional groups. <i>Journal of Solid State Chemistry</i> , 2014, 213, 176-181.	2.9	30
27	One-pot synthesis of Fe(III)-coordinated diamino-functionalized mesoporous silica: Effect of functionalization degrees on structures and phosphate adsorption. <i>Microporous and Mesoporous Materials</i> , 2013, 170, 200-210.	4.4	29
28	Thermal analysis evidence for the location of zwitterionic surfactant on clay minerals. <i>Applied Clay Science</i> , 2015, 112-113, 62-67.	5.2	27
29	Aluminum ion occupancy in the structure of synthetic saponites: Effect on crystallinity. <i>American Mineralogist</i> , 2014, 99, 109-116.	1.9	26
30	Conversion of serpentine to smectite under hydrothermal condition: Implication for solid-state transformation. <i>American Mineralogist</i> , 2018, 103, 241-251.	1.9	25
31	An efficient SO <sub>2</sub> -adsorbent from calcination of natural magnesite. <i>Ceramics International</i> , 2017, 43, 12557-12562.	4.8	23
32	Transformation of halloysite and kaolinite into beidellite under hydrothermal condition. <i>American Mineralogist</i> , 2017, 102, 997-1005.	1.9	20
33	Effect of functionalized kaolinite on the curing kinetics of cycloaliphatic epoxy/anhydride system. <i>Applied Clay Science</i> , 2014, 95, 317-322.	5.2	19
34	Controlled drug delivery for glaucoma therapy using montmorillonite/Eudragit microspheres as an ion-exchange carrier. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 415-428.	6.7	19
35	DCU-Net: a dual-channel U-shaped network for image splicing forgery detection. <i>Neural Computing and Applications</i> , 2023, 35, 5015-5031.	5.6	19
36	Thermal decomposition of silylated layered double hydroxides. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 101, 153-159.	3.6	18

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37	Restricting layer collapse enhances the adsorption capacity of reduced-charge organoclays. <i>Applied Clay Science</i> , 2014, 88-89, 73-77.	5.2	17
38	Metal occupancy and its influence on thermal stability of synthetic saponites. <i>Applied Clay Science</i> , 2017, 135, 282-288.	5.2	17
39	Application Research: Big Data in Food Industry. <i>Foods</i> , 2021, 10, 2203.	4.3	16
40	Kinetics and thermodynamic analysis of the adsorption of hydroxy-Al cations by montmorillonite. <i>Applied Clay Science</i> , 2016, 129, 79-87.	5.2	14
41	Investigation of structure and thermal stability of surfactant-modified Al-pillared montmorillonite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 219-225.	3.6	13
42	Al13-pillared montmorillonite modified by cationic and zwitterionic surfactants: A comparative study. <i>Applied Clay Science</i> , 2014, 101, 327-334.	5.2	13
43	Multi-Authority Attribute Based Encryption Scheme with Revocation. , 2015, , .		12
44	Structural effects on dissolution of silica polymorphs in various solutions. <i>Inorganica Chimica Acta</i> , 2018, 471, 57-65.	2.4	9
45	Incorporation of incompatible trace elements into molybdenite: Layered PbS precipitates within molybdenite. <i>American Mineralogist</i> , 2022, 107, 54-64.	1.9	8
46	Transformation of boehmite into 2:1 type layered aluminosilicates with different layer charges under hydrothermal conditions. <i>Applied Clay Science</i> , 2019, 181, 105207.	5.2	7
47	A technological quality control system for rice supply chain. <i>Food and Energy Security</i> , 2023, 12, .	4.3	7
48	Formation of saponite by hydrothermal alteration of metal oxides: Implication for the rarity of hydrotalcite. <i>American Mineralogist</i> , 2019, 104, 1156-1164.	1.9	6
49	Hydrothermal transformation of mixed metal oxides and silicate anions to phyllosilicate under highly alkaline conditions. <i>Applied Clay Science</i> , 2018, 156, 224-230.	5.2	5
50	Chemical and structural studies of coexisting 1M- and 2M1-polytypes in synthetic fluorophlogopites and influence of Al on the polytype formation. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 259-270.	0.8	3
51	Transformation of Ordered Albite into Kaolinite: Implication for the "Booklet" Morphology. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1133-1142.	2.7	3
52	Studies on self-assembly hydrothermal fabrication and thermal stability of Chromium oxyhydroxide nanomaterials synthesised from Chromium oxide colloids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 329-334.	3.6	1
53	Multiple Growth Mechanisms of 2:1 Type Layered Aluminosilicates during Mineral Transformation. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1930-1936.	2.7	0