

Jana Madejova

List of Publications by Year in descending order

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99
papers

6,653
citations

76326

40
h-index

62596

80
g-index

99
all docs

99
docs citations

99
times ranked

5581
citing authors

#	ARTICLE	IF	CITATIONS
1	FTIR techniques in clay mineral studies. <i>Vibrational Spectroscopy</i> , 2003, 31, 1-10.	2.2	1,457
2	Baseline Studies of the Clay Minerals Society Source Clays: Infrared Methods. <i>Clays and Clay Minerals</i> , 2001, 49, 410-432.	1.3	925
3	Comparative FT-IR study of structural modifications during acid treatment of dioctahedral smectites and hectorite. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1998, 54, 1397-1406.	3.9	265
4	The influence of structural Fe, Al and Mg on the infrared OH bands in spectra of dioctahedral smectites. <i>Clay Minerals</i> , 2002, 37, 607-616.	0.6	165
5	FTIR analyses of water in MX-80 bentonite compacted from high salinary salt solution systems. <i>Applied Clay Science</i> , 2002, 20, 255-271.	5.2	164
6	Structural characterization of organo-montmorillonites prepared from a series of primary alkylamines salts: Mid-IR and near-IR study. <i>Applied Clay Science</i> , 2019, 176, 11-20.	5.2	158
7	Near-infrared spectroscopy: A powerful tool in studies of acid-treated clay minerals. <i>Vibrational Spectroscopy</i> , 2009, 49, 211-218.	2.2	122
8	Dissolution of Hectorite in Inorganic Acids. <i>Clays and Clay Minerals</i> , 1996, 44, 228-236.	1.3	106
9	Characterisation of moderately acid-treated, size-fractionated montmorillonites using IR and MAS NMR spectroscopy and thermal analysis. <i>Journal of Materials Chemistry</i> , 1995, 5, 469-474.	6.7	104
10	Identification of components in smectite/kaolinite mixtures. <i>Clay Minerals</i> , 2002, 37, 377-388.	0.6	94
11	Preparation and properties of reduced-charge smectites – a review. <i>Clays and Clay Minerals</i> , 2005, 53, 313-334.	1.3	90
12	Alteration of smectites by treatments with hydrochloric acid and sodium carbonate solutions. <i>Applied Clay Science</i> , 1990, 5, 113-122.	5.2	89
13	Effect of non-swelling layers on the dissolution of reduced-charge montmorillonite in hydrochloric acid. <i>Clay Minerals</i> , 1996, 31, 333-345.	0.6	89
14	Characterization of Octahedral Substitutions in Kaolinites Using Near Infrared Spectroscopy. <i>Clays and Clay Minerals</i> , 1999, 47, 103-108.	1.3	89
15	Characterization and Catalytic Activity of Acid-Treated, Size-Fractionated Smectites. <i>Journal of Physical Chemistry B</i> , 1997, 101, 5324-5331.	2.6	86
16	Laponite-derived porous clay heterostructures: II. FTIR study of the structure evolution. <i>Microporous and Mesoporous Materials</i> , 2010, 127, 237-244.	4.4	83
17	Reduction and Reoxidation of Nontronite: Questions of Reversibility. <i>Clays and Clay Minerals</i> , 1995, 43, 105-110.	1.3	81
18	Acid-Activated Organoclays: Preparation, Characterization and Catalytic Activity of Acid-Treated Tetraalkylammonium-Exchanged Smectites. <i>Langmuir</i> , 1997, 13, 6473-6479.	3.5	78

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19	Preparation and infrared spectroscopic characterization of reduced-charge montmorillonite with various Li contents. <i>Clay Minerals</i> , 1996, 31, 233-241.	0.6	77
20	FTIR spectroscopic characterization of thermally treated Cu ²⁺ , Cd ²⁺ , and Li ⁺ montmorillonites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1999, 55, 2467-2476.	3.9	75
21	Correlation of catalytic activity with infra-red, ²⁹ Si MAS NMR and acidity data for HCl-treated fine fractions of montmorillonites. <i>Applied Clay Science</i> , 1995, 10, 219-230.	5.2	74
22	Methylene Blue Interactions with Reduced-Charge Smectites. <i>Clays and Clay Minerals</i> , 2001, 49, 244-254.	1.3	69
23	Structural Fe(III) reduction in smectites. <i>Applied Clay Science</i> , 2006, 34, 88-94.	5.2	69
24	Infrared spectroscopy of NH ₄ ⁺ -bearing and saturated clay minerals: A review of the study of layer charge. <i>Applied Clay Science</i> , 2006, 34, 22-30.	5.2	67
25	Changes in layer charge of clay minerals upon acid treatment as obtained from their interactions with methylene blue. <i>Applied Clay Science</i> , 2012, 55, 100-107.	5.2	66
26	Influence of the layer charge density of smectites on the interaction with methylene blue. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 3487-3492.	1.7	65
27	Acidity and catalytic activity of mildly acid-treated Mg-rich montmorillonite and hectorite. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 4207-4210.	1.7	61
28	Electronic and structural properties of reduced-charge montmorillonites. <i>Applied Clay Science</i> , 2000, 16, 257-271.	5.2	60
29	Characterization and crystal chemistry of an Fe-rich montmorillonite from Ålberg, Germany. <i>Clay Minerals</i> , 2002, 37, 283-297.	0.6	58
30	Laponite-derived porous clay heterostructures: I. Synthesis and physicochemical characterization. <i>Microporous and Mesoporous Materials</i> , 2010, 127, 228-236.	4.4	58
31	Effects of chemical composition and temperature of heating on the infrared spectra of Li-saturated dioctahedral smectites. (I) Mid-infrared region. <i>Clay Minerals</i> , 2000, 35, 739-751.	0.6	52
32	Weathering of smectite and illite-smectite under temperate climatic conditions. <i>Clay Minerals</i> , 2001, 36, 403-419.	0.6	52
33	Hydrothermal synthesis of ammonium illite. <i>American Mineralogist</i> , 1998, 83, 58-67.	1.9	51
34	Ammonium illite from anchimetamorphic shales associated with anthracite in the Zemplinicum of the western Carpathians. <i>Clay Minerals</i> , 1994, 29, 369-377.	0.6	48
35	Formation of boron nitride thin films on \hat{I}^2 -Si ₃ N ₄ whiskers and \hat{I}^{\pm} -SiC platelets by dip-coating. <i>Journal of the European Ceramic Society</i> , 1998, 18, 1037-1043.	5.7	48
36	Behaviour of Li ⁺ and Cu ²⁺ in heated montmorillonite: Evidence from far-, mid-, and near-IR regions. <i>Vibrational Spectroscopy</i> , 2006, 40, 80-88.	2.2	47

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37	Dry grinding of Ca and octadecyltrimethylammonium montmorillonite. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 589-595.	9.4	45
38	Comparison of Imazalil Removal onto Montmorillonite and Nanomontmorillonite and Adsorption Surface Sites Involved: An Approach for Agricultural Wastewater Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1529-1538.	3.7	45
39	Characterization of systematically selected organo-montmorillonites for polymer nanocomposites. <i>Applied Clay Science</i> , 2011, 51, 438-444.	5.2	44
40	Alteration of fine fraction of bentonite from Kopernica (Slovakia) under acid treatment: A combined XRD, FTIR, MAS NMR and AES study. <i>Applied Clay Science</i> , 2018, 163, 204-213.	5.2	44
41	Theoretical and experimental study of montmorillonite intercalated with tetramethylammonium cation. <i>Vibrational Spectroscopy</i> , 2013, 66, 123-131.	2.2	42
42	Layer Charge Estimation of Smectites Using Infrared Spectroscopy. <i>Clay Minerals</i> , 1998, 33, 579-591.	0.6	41
43	Silicon carbide powder synthesis by chemical vapour deposition from silane/acetylene reaction system. <i>Journal of the European Ceramic Society</i> , 2000, 20, 1939-1946.	5.7	39
44	The effect of high pH alkaline solutions on the mineral stability of the Boom Clay – Batch experiments at 60°C. <i>Applied Geochemistry</i> , 2010, 25, 825-840.	3.0	39
45	Near-Infrared Spectroscopic Analysis of Acid-Treated Organo-Clays. <i>Clays and Clay Minerals</i> , 2009, 57, 392-403.	1.3	37
46	Acid and alkali treatment of kaolins. <i>Clay Minerals</i> , 2009, 44, 511-523.	0.6	36
47	Near-infrared spectroscopy as an effective tool for monitoring the conformation of alkylammonium surfactants in montmorillonite interlayers. <i>Vibrational Spectroscopy</i> , 2016, 84, 44-52.	2.2	36
48	Acid dissolution of reduced-charge Li- and Ni-montmorillonites. <i>Clays and Clay Minerals</i> , 2003, 51, 133-142.	1.3	33
49	Laponite-derived porous clay heterostructures: III. The effect of alumination. <i>Microporous and Mesoporous Materials</i> , 2013, 175, 67-75.	4.4	33
50	Antibacterial kaolinite/urea/chlorhexidine nanocomposites: Experiment and molecular modelling. <i>Applied Surface Science</i> , 2014, 305, 783-791.	6.1	33
51	Reaction of smectites with iron in a nitrogen atmosphere at 75°C. <i>Applied Clay Science</i> , 2010, 50, 237-244.	5.2	31
52	Benefits of near-infrared spectroscopy for characterization of selected organo-montmorillonites. <i>Vibrational Spectroscopy</i> , 2011, 57, 8-8.	2.2	31
53	Bioleaching of clays and iron oxide coatings from quartz sands. <i>Applied Clay Science</i> , 2012, 61, 1-7.	5.2	31
54	Effect of heating temperature on Li-fixation, layer charge and properties of fine fractions of bentonites. <i>Journal of Materials Chemistry</i> , 2001, 11, 1452-1457.	6.7	29

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55	Location of Li(I), Cu(II) and Cd(II) in heated montmorillonite: evidence from specular reflectance infrared and electron spin resonance spectroscopies. <i>Journal of Materials Chemistry</i> , 1999, 9, 1553.	6.7	27
56	Effects of chemical composition and temperature of heating on the infrared spectra of Li-saturated dioctahedral smectites. (II) Near-infrared region. <i>Clay Minerals</i> , 2000, 35, 753-761.	0.6	27
57	Near-IR study of water adsorption on acid-treated montmorillonite. <i>Vibrational Spectroscopy</i> , 2012, 63, 360-366.	2.2	26
58	Hydration products at the blastfurnace slag aggregate - cement paste interface. <i>Cement and Concrete Research</i> , 1994, 24, 413-423.	11.0	25
59	Alterations of the surface and morphology of tetraalkyl-ammonium modified montmorillonites upon acid treatment. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 213-222.	9.4	25
60	Degradation of surfactant-modified montmorillonites in HCl. <i>Materials Chemistry and Physics</i> , 2012, 134, 768-776.	4.0	24
61	Experimental interactions of Slovak bentonites with metallic iron. <i>Geologica Carpathica</i> , 2009, 60, 535-543.	0.7	21
62	Effect of chemical composition and swelling on acid dissolution of 2 : 1 clay minerals. <i>Philosophical Magazine</i> , 2010, 90, 2387-2397.	1.6	21
63	Influence of Grinding and Sonication on the Crystal Structure of Talc. <i>Clays and Clay Minerals</i> , 2015, 63, 311-327.	1.3	20
64	Partial Stabilization of Fe(II) in Reduced Ferruginous Smectite by Li Fixation. <i>Clays and Clay Minerals</i> , 1999, 47, 458-465.	1.3	19
65	Characterization of clays from the CorumbataÃ-formation used as raw material for ceramic industry in the Santa Gertrudes district, SÃo Paulo, Brazil. <i>Applied Clay Science</i> , 2016, 132-133, 232-242.	5.2	19
66	Structural and Spectroscopic Characterization of Montmorillonite Intercalated with <i>N</i> -Butylammonium Cations (<i>N</i> = 1-4) â€” Modeling and Experimental Study. <i>Clays and Clay Minerals</i> , 2016, 64, 401-412.	1.3	19
67	Behaviour of Ca(OH) ₂ in the presence of the set styrene-acrylate dispersion. <i>Cement and Concrete Research</i> , 1996, 26, 1727-1735.	11.0	18
68	Synthesis and characterization of low dimensional ZnS- and PbS-semiconductor particles on a montmorillonite template. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14236.	2.8	18
69	The effect of acid treatment on the structure and surface acidity of tetraalkylammonium-montmorillonites. <i>Journal of Colloid and Interface Science</i> , 2013, 395, 166-175.	9.4	18
70	Spectroscopic study of water adsorption on Li+, TMA+ and HDTMA+ exchanged montmorillonite. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 751-761.	3.9	18
71	Comparative study of alkylammonium- and alkylphosphonium-based analogues of organo-montmorillonites. <i>Applied Clay Science</i> , 2021, 200, 105894.	5.2	18
72	Reduction of Fe(III) in griffithite. <i>Clay Minerals</i> , 2000, 35, 625-634.	0.6	17

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73	Mineral stability of Fe-rich bentonite in the Mock-Up-CZ experiment. <i>Geologica Carpathica</i> , 2009, 60, 431-436.	0.7	17
74	Unique photoactive nanocomposites based on rhodamine 6G/polymer/montmorillonite hybrid systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1672-1679.	2.1	17
75	Structural properties of montmorillonite intercalated with tetraalkylammonium cations – Computational and experimental study. <i>Vibrational Spectroscopy</i> , 2014, 74, 120-126.	2.2	17
76	Tolerance of Clay Minerals by Cement: Effect of Side-Chain Density in Polyethylene Oxide (PEO) Superplasticizer Additives. <i>Clays and Clay Minerals</i> , 2016, 64, 732-742.	1.3	16
77	Thermal stability of tetrabutyl-phosphonium and -ammonium exchanged montmorillonite: Influence of acid treatment. <i>Applied Clay Science</i> , 2017, 138, 63-73.	5.2	16
78	Characterization of products obtained by acid leaching of Fe-bentonite. <i>Clay Minerals</i> , 2007, 42, 527-540.	0.6	15
79	Near-IR study of the impact of alkyl-ammonium and -phosphonium cations on the hydration of montmorillonite. <i>Journal of Molecular Structure</i> , 2022, 1256, 132568.	3.6	15
80	Particle properties of hydrothermal ammonium-bearing illite-smectite. <i>Clays and Clay Minerals</i> , 2007, 55, 36-44.	1.3	14
81	IR spectroscopy of clay minerals and clay nanocomposites. <i>Spectroscopic Properties of Inorganic and Organometallic Compounds</i> , 0, , 22-71.	0.4	14
82	Near-infrared study of the interaction of pyridine with acid-treated montmorillonite. <i>Vibrational Spectroscopy</i> , 2015, 76, 22-30.	2.2	14
83	Reaction synthesis and characterisation of lanthanum silicon nitride. <i>Journal of the European Ceramic Society</i> , 2008, 28, 1917-1922.	5.7	13
84	Montmorillonite modified with unconventional surfactants from the series of octylammonium-based cations: Structural characterization and hydration properties. <i>Applied Clay Science</i> , 2018, 158, 102-112.	5.2	13
85	Utilization of near infrared spectroscopy for studying solvation properties of Cu-montmorillonites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 123, 385-391.	3.9	12
86	The influence of ageing on consolidation and sinterability of a sub-micron alumina powder. <i>Powder Technology</i> , 2011, 214, 313-321.	4.2	9
87	Near-Infrared Study of Water Adsorption on Homo-Ionic Forms of Montmorillonite. <i>Clays and Clay Minerals</i> , 2016, 64, 571-585.	1.3	7
88	Application of Vibrational Spectroscopy to the Characterization of Phyllosilicates and other Industrial Minerals. , 0, , 171-226.		7
89	Mineralogical and physicochemical properties of bentonites from the Jastrabá Formation (Kremnická) Tj ETQg1.1 0.784314 rgB	0.7	7
90	The effect of layer charge and exchangeable cations on sorption of biphenyl on montmorillonites. <i>Open Chemistry</i> , 2009, 7, 494-504.	1.9	6

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91	Experimental interactions of the Opalinus Clay and Boom Clay with various repository relevant solutions at 90°C under closed conditions. <i>Applied Clay Science</i> , 2012, 59-60, 50-63.	5.2	6
92	Structural changes in smectites subjected to mechanochemical activation: The effect of the occupancy of the octahedral sites. <i>Applied Clay Science</i> , 2021, 213, 106214.	5.2	6
93	(9,10-Dihydroxyoctadecyl)ammonium: A Structurally Unique Class of Clay Intercalable Surfactants. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2841-2850.	2.0	5
94	Reaction of bentonites with pyrite concentrate after wetting and drying cycles at 80°C: relevance to radioactive waste (Radwaste) storage. <i>Clay Minerals</i> , 2012, 47, 465-479.	0.6	3
95	Reaction of smectites with iron in aerobic conditions at 75°C. <i>Applied Clay Science</i> , 2013, 72, 26-36.	5.2	3
96	Determination of water content in raw perlites: Combination of NIR spectroscopy and thermoanalytical methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 240, 118517.	3.9	3
97	±-Fe ₂ O ₃ Nanoparticles/Iron-Containing Vermiculite Composites: Structural, Textural, Optical and Photocatalytic Properties. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 607.	2.0	3
98	FTIR Study of Structural Modifications of Li-montmorillonites. <i>Solid State Phenomena</i> , 2003, 90-91, 503-508.	0.3	2
99	Influence of pre-treatment on zirconium based conversion coating on AA2024. <i>Acta Chimica Slovaca</i> , 2017, 10, 101-106.	0.8	2