

# Marta ValÅ;kovÅ;

## List of Publications by Year in descending order

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73  
papers

1,339  
citations

331670

21  
h-index

377865

34  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exfoliation/delamination of kaolinite by low-temperature washing of kaolinite-urea intercalates. <i>Applied Clay Science</i> , 2007, 35, 108-118.	5.2	111
2	Effect of Mn/Al ratio in Co-Mn-Al mixed oxide catalysts prepared from hydrotalcite-like precursors on catalytic decomposition of N <sub>2</sub> O. <i>Catalysis Today</i> , 2007, 119, 233-238.	4.4	73
3	Effects of ZrSiO <sub>4</sub> in non-metallic brake friction materials on friction performance. <i>Tribology International</i> , 2008, 41, 166-174.	5.9	60
4	Effects of brief milling and acid treatment on two ordered and disordered kaolinite structures. <i>Applied Clay Science</i> , 2011, 54, 70-76.	5.2	56
5	Structure-activity relationship in the N <sub>2</sub> O decomposition over Ni-(Mg)-Al and Ni-(Mg)-Mn mixed oxides prepared from hydrotalcite-like precursors. <i>Journal of Molecular Catalysis A</i> , 2006, 248, 210-219.	4.8	52
6	Composition, structure, and luminescence of montmorillonites saturated with different aggregates of methylene blue. <i>Journal of Colloid and Interface Science</i> , 2007, 311, 14-23.	9.4	52
7	±-Fe <sub>2</sub> O <sub>3</sub> Nanoparticles/Vermiculite Clay Material: Structural, Optical and Photocatalytic Properties. <i>Materials</i> , 2019, 12, 1880.	2.9	48
8	Structure analysis of intercalated layer silicates: combination of molecular simulations and experiment. <i>Journal of Colloid and Interface Science</i> , 2004, 277, 154-161.	9.4	44
9	Structure of montmorillonite cointercalated with stearic acid and octadecylamine: Modeling, diffraction, IR spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 264-269.	9.4	42
10	Antimicrobial Nanocomposites Based on Natural Modified Materials: A Review of Carbons and Clays. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 673-693.	0.9	40
11	Vibrational spectroscopy of acid treated vermiculites. <i>Vibrational Spectroscopy</i> , 2014, 70, 63-69.	2.2	40
12	Influence of vermiculite on the formation of porous cordierites. <i>Applied Clay Science</i> , 2009, 46, 196-201.	5.2	36
13	Preparation and characterization of antibacterial silver/vermiculites and silver/montmorillonites. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6287-6300.	3.9	35
14	Antibacterial kaolinite/urea/chlorhexidine nanocomposites: Experiment and molecular modelling. <i>Applied Surface Science</i> , 2014, 305, 783-791.	6.1	33
15	Study of silver adsorption on montmorillonite. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 549-556.	0.6	29
16	Characterization of vermiculite particles after different milling techniques. <i>Powder Technology</i> , 2013, 239, 277-283.	4.2	29
17	Structural ordering of organovermiculite: Experiments and modeling. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 281-287.	9.4	28
18	Preparation of novel organovermiculites with antibacterial activity using chlorhexidine diacetate. <i>Journal of Colloid and Interface Science</i> , 2010, 342, 593-597.	9.4	25

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19	Antibacterial activity of organomontmorillonites and organovermiculites prepared using chlorhexidine diacetate. <i>Applied Clay Science</i> , 2013, 83-84, 17-23.	5.2	25
20	Structural variability of high purity cordierite/steatite ceramics sintered from mixtures with various vermiculites. <i>Ceramics International</i> , 2014, 40, 8489-8498.	4.8	25
21	Structure and antibacterial properties of polyethylene/organo-vermiculite composites. <i>Solid State Sciences</i> , 2015, 48, 197-204.	3.2	23
22	Adhesion of silver nanoparticles on the clay substrates; modeling and experiment. <i>Applied Surface Science</i> , 2010, 256, 2841-2848.	6.1	21
23	Role of vermiculite and zirconium-vermiculite on the formation of zircon-cordierite nanocomposites. <i>Applied Clay Science</i> , 2013, 75-76, 100-108.	5.2	21
24	Antibacterial efficiency of vermiculite/chlorhexidine nanocomposites and results of the in vivo test of harmless of vermiculite. <i>Materials Science and Engineering C</i> , 2014, 42, 466-473.	7.3	21
25	Organovermiculite nanofillers in polypropylene. <i>Applied Clay Science</i> , 2009, 43, 108-112.	5.2	18
26	Photocatalytic water splitting over CeO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> /Ver photocatalysts. <i>Energy Conversion and Management</i> , 2021, 238, 114156.	9.2	18
27	New aspects on vermiculite filler in polyethylene. <i>Applied Clay Science</i> , 2013, 72, 110-116.	5.2	17
28	Preparation of Vermiculite Nanoparticles Using Thermal Hydrogen Peroxide Treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 726-730.	0.9	16
29	Silver Nanoparticles/Montmorillonite Composites Prepared Using Nitrating Reagent at Water and Glycerol. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3050-3058.	0.9	16
30	Cordierite composites reinforced with zircon arising from zirconium-vermiculite precursor. <i>Materials Letters</i> , 2012, 80, 158-161.	2.6	16
31	Uptake of Ce(III) and Ce(IV) on montmorillonite. <i>Applied Clay Science</i> , 2016, 132-133, 41-49.	5.2	16
32	Comparable study of vermiculites from four commercial deposits prepared with fixed ceria nanoparticles. <i>Applied Clay Science</i> , 2018, 151, 164-174.	5.2	16
33	Crystallization and Quantification of Crystalline and Non-Crystalline Phases in Kaolin-Based Cordierites. <i>Materials</i> , 2019, 12, 3104.	2.9	16
34	Cordierite/steatite/CeO <sub>2</sub> porous materials Preparation, structural characterization and their photocatalytic activity. <i>Microporous and Mesoporous Materials</i> , 2015, 207, 120-125.	4.4	15
35	Preparation of antibacterial chlorhexidine/vermiculite and release study. <i>International Journal of Mineral Processing</i> , 2017, 159, 1-6.	2.6	14
36	Intercalation and Grafting of Vermiculite with Octadecylamine Using Low-temperature Melting. <i>Clays and Clay Minerals</i> , 2003, 51, 555-565.	1.3	12

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37	Preparation and characterization of porous cordierite for potential use in cellular ceramics. <i>Chemical Papers</i> , 2009, 63, .	2.2	12
38	Structural characteristics of cordierite/steatite ceramics sintered from mixtures containing pore-forming organovermiculite. <i>Ceramics International</i> , 2014, 40, 15717-15725.	4.8	12
39	Silver and-or copper vermiculites and their antibacterial effect. <i>Acta Geodynamica Et Geomaterialia</i> , 2013, , 97-104.	0.5	12
40	Identification of carbon forms and other phases in automotive brake composites using multiple analytical techniques. <i>Carbon</i> , 2006, 44, 792-798.	10.3	11
41	Structural Properties and Photocatalytic Activity of Ceria Nanoparticles on Vermiculite Matrix. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7844-7848.	0.9	11
42	Effects of Kaolin Additives in Fly Ash on Sintering and Properties of Mullite Ceramics. <i>Minerals (Basel)</i> , 2020, 10, 1122.	2.0	11
43	Influence of chain length on intercalation process of polyvinylchloride/clay nanocomposites based on alkyl-amine. <i>Plastics, Rubber and Composites</i> , 2004, 33, 279-286.	2.0	9
44	Vermiculite interlayer as a reactor for CdS ultrafine particles preparation. <i>Microporous and Mesoporous Materials</i> , 2010, 129, 118-125.	4.4	9
45	Magnesium Effect in K/Co-Mg-Mn-Al Mixed Oxide Catalyst for Direct NO Decomposition. <i>Catalysts</i> , 2020, 10, 931.	3.5	9
46	Infrared and Raman spectroscopy of three commercial vermiculites doped with cerium dioxide nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 201, 39-45.	3.9	8
47	Preparation of Mg-Vermiculite Nanoparticles Using Potassium Persulfate Treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2484-2488.	0.9	7
48	Quantitative Evaluation of Crystalline and Amorphous Phases in Clay-Based Cordierite Ceramic. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 1122.	2.0	7
49	Rehydration of Calcined Mg-Al Hydrotalcite in Acidified Chloride-Containing Aqueous Solution. <i>Collection of Czechoslovak Chemical Communications</i> , 2007, 72, 1284-1294.	1.0	6
50	Influence of acid-treated talc and Na <sub>2</sub> CO <sub>3</sub> flux on mineralogical phase composition and porosity in steatite ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2017, 14, 803-809.	2.1	6
51	Cordierite/CeO <sub>2</sub> ceramic nanocomposites from vermiculite with fixed CeO <sub>2</sub> nanoparticles, talc and kaolin. <i>Applied Clay Science</i> , 2019, 179, 105150.	5.2	6
52	Vermiculites from Brazil and Palabora: Structural changes upon heat treatment and influence on the depolymerization of polystyrene. <i>Applied Clay Science</i> , 2020, 192, 105639.	5.2	6
53	Molecular modeling of surface modification of Wyoming and Cheto montmorillonite by methylene blue. <i>Journal of Molecular Modeling</i> , 2009, 15, 1391-1396.	1.8	5
54	Effect of Talc in Mixtures with Fly Ash on Sintering Crystalline Phases and Porosity of Mullite-Cordierite Ceramics. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 154.	2.0	5

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55	Microporous Cordierite Ceramics Prepared from Clay Mineral Mixtures Containing Vermiculite. Journal of Scientific Conference Proceedings, 2010, 2, 49-52.	0.1	5
56	Photocatalytic Decomposition of N <sub>2</sub> O Over Ceramics Cordierite/CeO <sub>2</sub> Nanoparticles. Journal of Nanoscience and Nanotechnology, 2019, 19, 7339-7344.	0.9	4
57	Characterization of two low charge vermiculites after hydrochloric acid treatment. Acta Geodynamica Et Geomaterialia, 2015, , 299-306.	0.5	4
58	STRUCTURAL CHARACTERISTICS OF CORDIERITES BASED ON COMMERCIAL VERMICULITES IN RELATION TO THE NATURAL AND SYNTHETIC CORDIERITES. Ceramics - Silikaty, 2016, , 308-316.	0.3	4
59	Organo-vermiculite structure ordering after PVAc introduction. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1870-1875.	1.8	3
60	±-Fe <sub>2</sub> O <sub>3</sub> Nanoparticles/Iron-Containing Vermiculite Composites: Structural, Textural, Optical and Photocatalytic Properties. Minerals (Basel, Switzerland), 2022, 12, 607.	2.0	3
61	Structural and electrical properties of ceria nanoparticles on aluminosilicate matrices. Materials Today: Proceedings, 2018, 5, S96-S102.	1.8	2
62	Cordierite/steatite ceramics sintered from talc, kaolin and vermiculites: comparison of natural and organovermiculites effect. Materials Today: Proceedings, 2018, 5, S88-S95.	1.8	1
63	±-Fe <sub>2</sub> O <sub>3</sub> nanoparticles/vermiculite composites prepared for catalytic decomposition of polystyrene. Materials Today: Proceedings, 2021, 37, 1-4.	1.8	1
64	Antibacterial Polypropylene/Ag-Kaolinite, Preparation and Characterization. Advanced Science Letters, 2016, 22, 656-660.	0.2	1
65	Cobalt-Organovermiculite Arrangement and Mechanical Properties: Models and Experiments. Journal of Computational and Theoretical Nanoscience, 2014, 11, 2387-2392.	0.4	0
66	Graphite an exfoliated and organomodified filler for polymeric nanocomposites. Materials Today: Proceedings, 2018, 5, S103-S108.	1.8	0
67	Polyethylene/Organo-Inorgano Vermiculites and Their Antimicrobial Properties. Journal of Nanoscience and Nanotechnology, 2019, 19, 2599-2605.	0.9	0
68	Vermiculite Filler for Polymeric Nanocomposites: Thermal and Dispersion Study. Journal of Scientific Conference Proceedings, 2010, 2, 42-44.	0.1	0
69	Selected Peer-Reviewed Articles from 2nd International Nanomaterials and Nanotechnology Meeting (NanoOstrava 2011). Advanced Science, Engineering and Medicine, 2011, 3, 1-2.	0.3	0
70	Characterization of Vermiculite Structure Using X-Ray Powder Diffraction Before Its Use Into Nanocomposites. Advanced Science, Engineering and Medicine, 2011, 3, 119-121.	0.3	0
71	Vermiculite's Effect Study on the Friction Performance of Composites: Extension Evaluation and Interactions Modeling. Advanced Science Focus, 2013, 1, 103-110.	0.1	0
72	<l>A Special Section on</l> Nanomaterials: Preparation and Characterization. Advanced Science, Engineering and Medicine, 2014, 6, 437-438.	0.3	0

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73	Editorial for Special Issue "Clay Minerals and Waste Fly Ash Ceramics" Minerals (Basel, Switzerland), 2022, 12, 73.	2.0	0