

# Kateřina Mamulovř; Kutlřkovř

## List of Publications by Year in descending order

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52  
papers

857  
citations

471509

17  
h-index

501196

28  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1155  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of photoactive composite kaolinite/TiO <sub>2</sub> . Journal of Hazardous Materials, 2011, 188, 212-220.	12.4	113
2	Alkali metals as promoters in Co-Mn-Al mixed oxide for N <sub>2</sub> O decomposition. Applied Catalysis A: General, 2013, 462-463, 227-235.	4.3	62
3	Synthesis of nanostructured TiO <sub>2</sub> /SiO <sub>2</sub> as an effective photocatalyst for degradation of acid orange. Applied Surface Science, 2013, 279, 384-390.	6.1	56
4	Functional and eco-friendly nanocomposite kaolinite/ZnO with high photocatalytic activity. Applied Catalysis B: Environmental, 2015, 162, 392-400.	20.2	51
5	Preparation and characterization of antibacterial silver/vermiculites and silver/montmorillonites. Geochimica Et Cosmochimica Acta, 2010, 74, 6287-6300.	3.9	35
6	Antibacterial activity of kaolinite/nanoTiO <sub>2</sub> composites in relation to irradiation time. Journal of Photochemistry and Photobiology B: Biology, 2014, 135, 17-22.	3.8	34
7	Photocatalytic H <sub>2</sub> generation from aqueous ammonia solution using ZnO photocatalysts prepared by different methods. International Journal of Hydrogen Energy, 2015, 40, 8530-8538.	7.1	34
8	Recycling of blast furnace sludge by briquetting with starch binder: Waste gas from thermal treatment utilizable as a fuel. Waste Management, 2016, 48, 471-477.	7.4	32
9	A low-cost photoactive composite quartz sand/TiO <sub>2</sub> . Chemical Engineering Journal, 2013, 222, 488-497.	12.7	31
10	Preparation of highly wettable coatings on Ti-6Al-4V ELI alloy for traumatological implants using micro-arc oxidation in an alkaline electrolyte. Scientific Reports, 2020, 10, 19780.	3.3	31
11	Modified clay minerals efficiency against chemical and biological warfare agents for civil human protection. Journal of Hazardous Materials, 2014, 271, 65-72.	12.4	29
12	Release of volatile organic compounds by oxidative wear of automotive friction materials. Wear, 2017, 376-377, 705-716.	3.1	28
13	The stability of photoactive kaolinite/TiO <sub>2</sub> composite. Composites Part B: Engineering, 2014, 67, 262-269.	12.0	24
14	On the stability of alkali metal promoters in Co mixed oxides during direct NO catalytic decomposition. Molecular Catalysis, 2017, 428, 33-40.	2.0	22
15	Photoactive and hydrophobic nano-ZnO/poly(alkyl siloxane) coating for the protection of sandstone. Construction and Building Materials, 2019, 199, 549-559.	7.2	20
16	Structural, magnetic, optical, and magneto-optical properties of CoFe <sub>2</sub> O <sub>4</sub> thin films fabricated by a chemical approach. Materials Research Bulletin, 2019, 117, 96-102.	5.2	19
17	High electrical anisotropy in hydrochloric acid doped polyaniline/phyllsilicate nanocomposites: Effect of phyllsilicate matrix, synthesis pathway and pressure. Applied Clay Science, 2013, 80-81, 126-132.	5.2	18
18	Electrically conductive and optically transparent polyaniline/montmorillonite nanocomposite thin films. Thin Solid Films, 2014, 562, 319-325.	1.8	18

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19	Effects of binder choice in converter and blast furnace sludge briquette preparation: Environmental and practical implications. <i>Waste Management</i> , 2018, 79, 30-37.	7.4	17
20	Metal-based particles in human amniotic fluids of fetuses with normal karyotype and congenital malformation – a pilot study. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7582-7589.	5.3	15
21	Testing the stability of magnetic iron oxides/kaolinite nanocomposite under various pH conditions. <i>Journal of Solid State Chemistry</i> , 2017, 253, 329-335.	2.9	14
22	Catalytic activity of cobalt grafted on ordered mesoporous silica materials in N <sub>2</sub> O decomposition and CO oxidation. <i>Molecular Catalysis</i> , 2017, 437, 57-72.	2.0	13
23	Montmorillonite intercalated by conducting polyanilines. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1530-1533.	4.0	11
24	Effects of Continuous and Pulsating Water Jet on CNT/Concrete Composite. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2017, 63, 583-589.	1.1	11
25	Electrospinning of Fibrous Layers Containing an Antibacterial Chlorhexidine/Kaolinite Composite. <i>ACS Applied Bio Materials</i> , 2020, 3, 3028-3038.	4.6	10
26	Iron-based granules in body of bumblebees. <i>BioMetals</i> , 2015, 28, 89-99.	4.1	9
27	Influence of thermal and UV treatment on the polypropylene/graphite composite. <i>Polymer Testing</i> , 2016, 52, 46-53.	4.8	8
28	Photoactive and non-hazardous kaolin/ZnO composites prepared by calcination of sodium zinc carbonate. <i>Applied Clay Science</i> , 2017, 143, 345-353.	5.2	8
29	Easy and low-cost preparation method of magnetic montmorillonite/Fe <sub>3</sub> O <sub>4</sub> composite: initial study for future applications. <i>Monatshefte für Chemie</i> , 2020, 151, 1-10.	1.8	7
30	Polyaniline/TiO <sub>2</sub> /kaolinite: The composite material with high electrical anisotropy. <i>Materials Chemistry and Physics</i> , 2014, 146, 146-152.	4.0	6
31	Ti and Zn Content in Moss Shoots After Exposure to TiO <sub>2</sub> and ZnO Nanoparticles: Biomonitoring Possibilities. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 102, 218-223.	2.7	6
32	Effect of montmorillonite/polypyrrole ratio and oxidizing agent on structure and electrical conductivity of intercalated nanocomposites. <i>Applied Clay Science</i> , 2019, 168, 459-468.	5.2	6
33	Monitoring conductivity and optical homogeneity during the growth of polyaniline thin films. <i>Thin Solid Films</i> , 2013, 537, 58-64.	1.8	5
34	Functional nanostructures of montmorillonite with conducting polyaniline. <i>Clay Minerals</i> , 2015, 50, 341-351.	0.6	5
35	Microstructural Analysis and Magnetic Characterization of Native and Magnetically Modified Montmorillonite and Vermiculite. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-14.	2.7	5
36	Determination of Oxidative Potential Caused by Brake Wear Debris in Non-Cellular Systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2869-2875.	0.9	5

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37	Magnetically Modified TiO <sub>2</sub> Powders – Microstructure and Magnetic Properties. <i>Physics Procedia</i> , 2015, 75, 1450-1457.	1.2	4
38	Highly anisotropic conductivity of tablets pressed from polyaniline-montmorillonite nanocomposite. <i>Materials Research Bulletin</i> , 2016, 75, 139-143.	5.2	4
39	Nanocomposite Kaolin/TiO <sub>2</sub> as a Possible Functional Filler in Automotive Brake Pads. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-14.	2.7	4
40	Phytotoxicity of ZnO/kaolinite nanocomposite – is anchoring the right way to lower environmental risk?. <i>Environmental Science and Pollution Research</i> , 2019, 26, 22069-22081.	5.3	4
41	Polypyrrole/montmorillonite and polypyrrole/ghassoul intercalates as a source of graphite and multi-layer graphene: Preparation of nanocomposites exhibiting strongly anisotropic electrical conductivity. <i>Materials Research Bulletin</i> , 2021, 142, 111429.	5.2	4
42	The Study of the Antibacterial Activity of Kaolinite/ZnO Composites. <i>Advanced Science Letters</i> , 2016, 22, 695-698.	0.2	3
43	Structure and properties of polyaniline/montmorillonite nanocomposites prepared under various conditions. <i>Materials Technology</i> , 2014, 29, 301-306.	3.0	2
44	Magnetic modification of Ghassoul. <i>Materials Today: Proceedings</i> , 2018, 5, S45-S51.	1.8	2
45	Modification of microwave assisted preparation of Fe <sub>x</sub> O <sub>y</sub> nanoparticles. <i>Materials Today: Proceedings</i> , 2018, 5, S52-S60.	1.8	2
46	Stevensite-Rich Moroccan Clay Intercalated by Polypyrrole: Towards the Enhancement of Electrical Conductivity. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2821-2832.	0.9	2
47	Photoactive and Non-Hazardous Kaolinite/ZnO Nanocomposite: Characterization and Reproducibility of the Preparation Process. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2862-2868.	0.9	2
48	Simple and fast method for determination of preferred crystallographic orientation of nanoparticles: A study on ZnS/kaolinite nanocomposite. <i>Applied Surface Science</i> , 2021, 544, 148966.	6.1	2
49	Texture and electrical conductivity of pellets pressed from PANI and PANI/montmorillonite intercalate. <i>Acta Geodynamica Et Geomaterialia</i> , 2013, , 371-377.	0.5	2
50	Leaching test for calcined kaolinite and kaolinite/TiO <sub>2</sub> photoactive composite. <i>Chemical Papers</i> , 2016, 70, .	2.2	1
51	Long-term effect of weather in Dfb climate subtype on properties of hydrophobic coatings on sandstone. <i>Journal of Building Engineering</i> , 2022, 52, 104383.	3.4	1
52	Enhanced electrical conductivity of polyaniline films by postsynthetic DC high-voltage electrical field treatment. <i>Synthetic Metals</i> , 2013, 179, 116-121.	3.9	0