

Pavla-na Peikertová;

List of Publications by Year in descending order

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67
papers

810
citations

567281

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68
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68
docs citations

68
times ranked

1214
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation, characterization and photocatalytic properties of cerium doped TiO ₂ : On the effect of Ce loading on the photocatalytic reduction of carbon dioxide. <i>Applied Catalysis B: Environmental</i> , 2014, 152-153, 172-183.	20.2	104
2	Functional and eco-friendly nanocomposite kaolinite/ZnO with high photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 392-400.	20.2	51
3	Antibacterial activity of kaolinite/nanoTiO ₂ composites in relation to irradiation time. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 135, 17-22.	3.8	34
4	Activated Carbons Prepared from a Broad Range of Residual Agricultural Biomasses Tested for Xylene Abatement in the Gas Phase. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2368-2374.	6.7	31
5	Release of volatile organic compounds by oxidative wear of automotive friction materials. <i>Wear</i> , 2017, 376-377, 705-716.	3.1	28
6	Automotive airborne brake wear debris nanoparticles and cytokinesis-block micronucleus assay in peripheral blood lymphocytes: A pilot study. <i>Environmental Research</i> , 2016, 148, 443-449.	7.5	26
7	Biological response of an in vitro human 3D lung cell model exposed to brake wear debris varies based on brake pad formulation. <i>Archives of Toxicology</i> , 2018, 92, 2339-2351.	4.2	26
8	Preparation, characterization and antibacterial properties of ZnO/kaoline nanocomposites. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 148, 113-117.	3.8	25
9	The IR and Raman spectra of polyaniline adsorbed on the glass surface; comparison of experimental, empirical force field, and quantum chemical results. <i>European Polymer Journal</i> , 2014, 57, 47-57.	5.4	24
10	Influence of the Automotive Brake Wear Debris on the Environment - A Review of Recent Research. <i>SAE International Journal of Materials and Manufacturing</i> , 0, 9, 133-146.	0.3	22
11	Preparation of Hydrochlorothiazide Nanoparticles for Solubility Enhancement. <i>Molecules</i> , 2016, 21, 1005.	3.8	21
12	Biosilica-nanogold composite: Easy-to-prepare catalyst for soman degradation. <i>Arabian Journal of Chemistry</i> , 2019, 12, 262-271.	4.9	21
13	Preparation of Risedronate Nanoparticles by Solvent Evaporation Technique. <i>Molecules</i> , 2014, 19, 17848-17861.	3.8	20
14	ASC1/RAS2 Suppresses the Growth Defect on Glycerol Caused by the atp1Δ ² Mutation in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 10492-10497.	3.4	19
15	Nanostructured composite material graphite/TiO ₂ and its antibacterial activity under visible light irradiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 149, 265-271.	3.8	19
16	Electrically conductive and optically transparent polyaniline/montmorillonite nanocomposite thin films. <i>Thin Solid Films</i> , 2014, 562, 319-325.	1.8	18
17	Identification of Organic Compounds Released from Low-Metallic Automotive Model Brake Pad and its Non-Airborne Wear Particles. <i>SAE International Journal of Materials and Manufacturing</i> , 0, 9, 123-132.	0.3	16
18	Water suspended nanosized particles released from nonairborne brake wear debris. <i>Wear</i> , 2013, 306, 89-96.	3.1	15

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19	Electrically conductive aluminosilicate/graphene nanocomposite. <i>Journal of the European Ceramic Society</i> , 2014, 34, 3111-3117.	5.7	15
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	Microstructure and Properties of Nanostructured Coating on Ti6Al4V. <i>Materials</i> , 2020, 13, 708.	2.9	14
22	Catalytic activity of cobalt grafted on ordered mesoporous silica materials in N ₂ O decomposition and CO oxidation. <i>Molecular Catalysis</i> , 2017, 437, 57-72.	2.0	13
23	Antimicrobial bionanocomposite – from precursors to the functional material in one simple step. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	12
24	Montmorillonite intercalated by conducting polyanilines. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1530-1533.	4.0	11
25	The influence of pH on organovermiculite structure stability. <i>Applied Clay Science</i> , 2014, 93-94, 17-22.	5.2	11
26	Raman study of PANI thin film during long time period in dependence on storage conditions. <i>Chemical Papers</i> , 2017, 71, 379-385.	2.2	11
27	The effect of MWCNT modification on structural and morphological properties of Li ₄ Ti ₅ O ₁₂ . <i>Diamond and Related Materials</i> , 2021, 113, 108276.	3.9	11
28	Possible role of nano-sized particles in chronic tonsillitis and tonsillar carcinoma: a pilot study. <i>European Archives of Oto-Rhino-Laryngology</i> , 2013, 270, 705-709.	1.6	10
29	Cimetidine Nanoparticles for Permeability Enhancement. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7840-7843.	0.9	10
30	Titanium and zirconium-based mixed oxides prepared by using pressurized and supercritical fluids: On novel preparation, microstructure and photocatalytic properties in the photocatalytic reduction of CO ₂ . <i>Catalysis Today</i> , 2017, 287, 52-58.	4.4	9
31	Novel TiO ₂ prepared from titanyl sulphate by using pressurized water processing and its photocatalytic activity evaluation. <i>Materials Research Bulletin</i> , 2017, 95, 30-46.	5.2	9
32	Micronization of Ibuprofen Particles Using Supercritical Fluid Technology. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2814-2820.	0.9	9
33	Detection of nano- and micro-sized particles in routine biopsy material - pilot study. <i>Biomedical Papers of the Medical Faculty of the University Palacký&#x0301;, Olomouc, Czechoslovakia</i> , 2015, 159, 087-092.	0.6	9
34	Influence of thermal and UV treatment on the polypropylene/graphite composite. <i>Polymer Testing</i> , 2016, 52, 46-53.	4.8	8
35	Chemical and phase composition of metallurgical slags and their effects on freshwater green algae. <i>Materials Today: Proceedings</i> , 2018, 5, S2-S10.	1.8	8
36	Improvement of Glibenclamide Water Solubility by Nanoparticle Preparation. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3031-3034.	0.9	8

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37	The influence of structural properties on the adsorption capacities of microwave-assisted biochars for metazachlor removal from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108003.	6.7	8
38	Polyaniline/TiO ₂ /kaolinite: The composite material with high electrical anisotropy. <i>Materials Chemistry and Physics</i> , 2014, 146, 146-152.	4.0	6
39	Preparation of calcium-deficient hydroxyapatite particles on vermiculite by precipitation and sonication. <i>Journal of the Australian Ceramic Society</i> , 2017, 53, 775-785.	1.9	6
40	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
41	Monitoring conductivity and optical homogeneity during the growth of polyaniline thin films. <i>Thin Solid Films</i> , 2013, 537, 58-64.	1.8	5
42	Functional nanostructures of montmorillonite with conducting polyaniline. <i>Clay Minerals</i> , 2015, 50, 341-351.	0.6	5
43	Graphene-containing thin films prepared by calcination of polyaniline/montmorillonite nanocomposite. <i>Thin Solid Films</i> , 2017, 625, 148-154.	1.8	5
44	Nanostructured TiO ₂ and ZnO prepared by using pressurized hot water and their eco-toxicological evaluation. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	5
45	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
46	Magnetically Modified Biosorbent for Rapid Beryllium Elimination from the Aqueous Environment. <i>Materials</i> , 2021, 14, 6610.	2.9	5
47	Microstructure, Optical and Photocatalytic Properties of TiO ₂ Thin Films Prepared by Chelating-Agent Assisted Sol-Gel Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 504-514.	0.9	4
48	Raman microspectroscopy as a useful tool for nanopathology. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 357-362.	2.5	4
49	Nanogold Biosynthesis Mediated by Mixed Flower Pollen Grains. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2983-2988.	0.9	4
50	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
51	Preparation Of High-performance Photocatalytic Core-shell Lamellar Nanostructures ZnO-(Si)-ZnO With High Specific Surface Area. <i>Advanced Materials Letters</i> , 2016, 7, 730-734.	0.6	4
52	Structure and properties of kaolinite intercalated with potassium acetate and their nanocomposites with polyamide 1010. <i>Journal of Thermoplastic Composite Materials</i> , 2017, 30, 971-985.	4.2	3
53	Structure and properties of polyaniline/montmorillonite nanocomposites prepared under various conditions. <i>Materials Technology</i> , 2014, 29, 301-306.	3.0	2
54	Toxicity of the Airborne Brake Wear Debris. <i>SAE International Journal of Materials and Manufacturing</i> , 0, 10, 19-25.	0.3	2

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55	Preparation of Calcium Deficient Hydroxyapatite on Vermiculite from China and Africa Deposits. <i>Materials Today: Proceedings</i> , 2018, 5, S38-S44.	1.8	2
56	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
57	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
58	Stability of Calcium Deficient Hydroxyapatite/Clay Mineral Nanocomposite in Solutions with Different pH. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2710-2716.	0.9	2
59	Polyaniline as a Precursor of Multi-Layer Graphene: Microscopic and Microspectroscopic Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7736-7747.	0.9	2
60	Detection of Micron and Submicron Particles in Human Bronchogenic Carcinomas. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2460-2466.	0.9	1
61	Settled Dust from Urban and Suburban Roads in an Industrial City Area: Location and Seasonal Differences in Metal Content. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3035-3040.	0.9	1
62	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
63	Effective and reproducible biosynthesis of nanogold-composite catalyst for paracetamol oxidation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 87764-87774.	5.3	1
64	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
65	Polyaniline/montmorillonite nanocomposite thin layers deposited on different substrates. <i>Chemical Papers</i> , 2017, 71, 317-327.	2.2	0
66	Organovermiculite as Regenerable Nanostructured Adsorbent for Treatment of Heavily Polluted Waste Water from Coke Industry. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2567-2574.	0.9	0
67	AMINO-(GD)NITRATE COMBUSTION PROCESS: THE INFLUENCE OF AN AMINO ACID ON THE FINAL PRODUCT. , 2020, , .		0