VÃ¡clav SlovÃ¡k

List of Publications by Year
in descending order

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50	938	430874	477307
papers	citations	18 h-index	29 g-index

50	50	50	1113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Drying and Pyrolysis of Cellulose Nanofibers from Wood, Bacteria, and Algae for Char Application in Oil Absorption and Dye Adsorption. ACS Sustainable Chemistry and Engineering, 2017, 5, 2679-2692.	6.7	100
2	Wear performance and wear debris of semimetallic automotive brake materials. Wear, 2010, 268, 86-93.	3.1	78
3	Urea and CaCl2 as inhibitors of coal low-temperature oxidation. Journal of Thermal Analysis and Calorimetry, 2012, 110, 363-367.	3.6	76
4	Calorimetric investigation of chemical additives affecting oxidation of coal at low temperatures. Fuel Processing Technology, 2011, 92, 712-715.	7.2	60
5	Effect of experimental conditions on parameters derived from TG-DSC measurements of low-temperature oxidation of coal. Journal of Thermal Analysis and Calorimetry, 2010, 101, 641-646.	3.6	57
6	Oxygen surface groups analysis of carbonaceous samples pyrolysed at low temperature. Carbon, 2018, 134, 255-263.	10.3	48
7	Determination of kinetic parameters by direct non-linear regression from TG curves. Thermochimica Acta, 2001, 372, 175-182.	2.7	38
8	Novel octahedral nickel(II) dithiocarbamates with bi- or tetradentate N-donor ligands: X-ray structures of [Ni(Bzppzdtc)(phen)2]ClO4Â· CHCl3 and [Ni(Bz2dtc)2(cyclam)]. Polyhedron, 2008, 27, 411-419.	2.2	33
9	The role of the oxygen functional groups in adsorption of copper (II) on carbon surface. Science of the Total Environment, 2020, 711, 135436.	8.0	33
10	N-doped carbon xerogels prepared by ammonia assisted pyrolysis: Surface characterisation, thermal properties and adsorption ability for heavy metal ions. Journal of Analytical and Applied Pyrolysis, 2014, 109, 266-271.	5.5	26
11	Kinetic studies of graphon and coal-char reaction with NO and O2: direct non-linear regression from TG curves. Fuel Processing Technology, 2005, 86, 651-660.	7.2	24
12	Facile synthesis of soft-templated carbon monoliths with hierarchical porosity for fast adsorption from liquid media. Microporous and Mesoporous Materials, 2018, 272, 155-165.	4.4	24
13	Quantitative TG-MS analysis of evolved gases during the thermal decomposition of carbon containing solids. Thermochimica Acta, 2016, 632, 23-28.	2.7	22
14	Development of oxidation heat of the coal left in the mined-out area of a longwall face: Modelling using the fluent software. Journal of Mining and Metallurgy, Section B: Metallurgy, 2008, 44, 73-81.	0.8	22
15	Determination of the Surface Oxidation Degree of the Carbonaceous Materials by Quantitative TG-MS Analysis. Analytical Chemistry, 2017, 89, 1710-1715.	6.5	21
16	Highly-efficient removal of Pb(<scp>ii</scp>), Cu(<scp>ii</scp>) and Cd(<scp>ii</scp>) from water by novel lithium, sodium and potassium titanate reusable microrods. RSC Advances, 2020, 10, 3694-3704.	3.6	21
17	Pitch pyrolysis kinetics from single TG curve. Journal of Analytical and Applied Pyrolysis, 2004, 72, 249-252.	5.5	19
18	Investigation of the thermal decomposition of a new titanium dioxide material. Journal of Thermal Analysis and Calorimetry, 2016, 125, 1071-1078.	3.6	19

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19	Biosorption (removing) of Cd(II), Cu(II) and methylene blue using biochar produced by different pyrolysis conditions of beech and spruce sawdust. Wood Science and Technology, 2017, 51, 1321-1338.	3.2	17
20	The influence of pyrolytic temperature on sorption ability of carbon xerogel based on 3-aminophenol-formaldehyde polymer for Cu(II) ions and phenol. Journal of Analytical and Applied Pyrolysis, 2016, 121, 29-40.	5.5	16
21	Symmetric Ni(II) dithiocarbamates with bidentate phosphines ligands. Journal of Coordination Chemistry, 2006, 59, 911-919.	2.2	14
22	Monitoring of N-doped organic xerogels pyrolysis by TGâ€“MS. Journal of Thermal Analysis and Calorimetry, 2013, 113, 209-217.	3.6	12
23	Thermoporometry of porous carbon: The effect of the carbon surface chemistry on the thickness of non-freezable pore water layer (delta layer). Microporous and Mesoporous Materials, 2021, 326, 111358.	4.4	12
24	The influence of annealing temperature on properties of TiO based materials as adsorbents of radionuclides. Thermochimica Acta, 2019, 673, 34-39.	2.7	11
25	Optimisation of thermoporometry measurements to evaluate mesoporous organic and carbon xero-, cryo- and aerogels. Thermochimica Acta, 2015, 621, 81-89.	2.7	10
26	Ni(II) complexes of unsymmetrical phenyl and phenethyl dithiocarbamates and triphenylphosphine. Journal of Coordination Chemistry, 2006, 59, 437-444.	2.2	9
27	Ni(II) benzylbutyldithiocarbamates containing monodentate phosphines. Journal of Coordination Chemistry, 2007, 60, 485-494.	2.2	9
28	Effect of pyrolysis temperature and thermal oxidation on the adsorption properties of carbon cryogels. Thermochimica Acta, 2015, 614, 45-51.	2.7	9
29	Thermal decomposition of a peroxopolytitanic acid cryogel: TA/MS study. Thermochimica Acta, 2017, 647, 1-7.	2.7	9
30	Influence of catalyst amount on properties of resorcinol-formaldehyde xerogels. Thermochimica Acta, 2018, 660, 37-43.	2.7	9
31	The influence of selected oxides and carbonates on thermal oxidation of coke. Journal of Thermal Analysis and Calorimetry, 2003, 71, 875-881.	3.6	8
32	Thermal decomposition study of nanostructured amorphous lithium, sodium and potassium metatitanates. Thermochimica Acta, 2018, 670, 148-154.	2.7	7
33	Nickel(II) N-Benzyl-N-methyldithiocarbamato Complexes as Precursors for the Preparation of Graphite Oxidation Accelerators. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 1557-1564.	1.2	6
34	Pyrolysis of N-doped organic aerogels with relation to sorption properties. Journal of Thermal Analysis and Calorimetry, 2012, 108, 475-480.	3.6	6
35	Revisiting the Effect of Pyrolysis Temperature and Type of Activation on the Performance of Carbon Electrodes in an Electrochemical Capacitor. Materials, 2022, 15, 2431.	2.9	6
36	Organic xerogels based on condensation of different m-substituted phenols with formaldehyde. Journal of Thermal Analysis and Calorimetry, 2014, 116, 663-669.	3.6	5

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37	Liquefaction of Cellulose for Production of Advanced Porous Carbon Materials. Polymers, 2022, 14, 1621.	4.5	5
38	Porous carbon monoliths from ice-NaOH templated dissolved cellulose. Industrial Crops and Products, 2022, 183, 114961.	5.2	5
39	Kinetics of resorcinolâ€“formaldehyde polycondensation by DSC. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1215-1222.	3.6	4
40	Optimization of oxygen chemisorption on the carbon surface based on kinetic analysis of isothermal thermogravimetry. Thermochimica Acta, 2018, 666, 82-90.	2.7	4
41	Effect of amines on (peroxo)titanates: characterization and thermal decomposition. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	4
42	Application of direct nonlinear regression from single TG curve to compounds undergoing simple and complex thermal decompositions. International Journal of Chemical Kinetics, 2003, 35, 611-622.	1.6	3
43	Waste poly (vinyl chloride) pyrolysis with hydrogen chloride abatement by steelmaking dust. Chemical Papers, 2016, 70, .	2.2	3
44	Disclosing the thermal reactions of aliphatic amines in the presence of TiO2 nanoparticles by multi-shot analytical pyrolysis. Journal of Analytical and Applied Pyrolysis, 2021, 159, 105284.	5.5	3
45	Effect of amines on the peroxo-titanates and photoactivity of annealed TiO2. Arabian Journal of Chemistry, 2022, 15, 103808.	4.9	3
46	Valorization of oak and casuarina fruit shells to reduce the rate of copper and methylene blue. International Journal of Environmental Science and Technology, 2022, 19, 7141-7150.	3.5	2
47	Synthesis of Magnetic Adsorbents Based Carbon Highly Efficient and Stable for Use in the Removal of Pb(II) and Cd(II) in Aqueous Solution. Materials, 2021, 14, 6134.	2.9	2
48	Kinetics of Resorcinol-Formaldehyde Condensationâ€”Comparison of Common Experimental Techniques. Gels, 2022, 8, 8.	4.5	2
49	Reproducibility of preparation of cellulose-based cryogels characterised by TGâ€“MS. Journal of Thermal Analysis and Calorimetry, 2015, 119, 359-367.	3.6	1
50	Alternative determination of the skeletal density of solids using a manometric gas physisorption apparatus: A systematic and methodological study. Microporous and Mesoporous Materials, 2019, 290, 109641.	4.4	1