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List of Publications by Year in descending order

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70 papers	2,289 citations	172207 29 h-index	223531 46 g-index
70 all docs	70 docs citations	70 times ranked	2199 citing authors

#	Article	IF	Citations
1	Capacitance behaviour of brown coal based active carbon modified through chemical reaction with urea. Electrochimica Acta, 2008, 53, 5469-5475.	2.6	130
2	Comparison of physicochemical and sorption properties of activated carbons prepared by physical and chemical activation of cherry stones. Powder Technology, 2015, 269, 312-319.	2.1	124
3	Preparation of Nitrogen-Enriched Activated Carbons from Brown Coal. Energy & Fuels, 2006, 20, 1275-1280.	2.5	115
4	Sorption properties of active carbons obtained from walnut shells by chemical and physical activation. Catalysis Today, 2010, 150, 107-114.	2.2	96
5	Active carbons prepared by chemical activation of plum stones and their application in removal of NO2. Journal of Hazardous Materials, 2010, 181, 1088-1094.	6.5	92
6	X-ray Photoelectron Spectroscopy Study of Nitrogen-Enriched Active Carbons Obtained by Ammoxidation and Chemical Activation of Brown and Bituminous Coals. Energy & Fuels, 2010, 24, 1197-1206.	2.5	73
7	The use of microwave radiation for obtaining activated carbons from sawdust and their potential application in removal of NO2 and H2S. Chemical Engineering Journal, 2015, 269, 352-358.	6.6	73
8	Sorption properties of activated carbons obtained from corn cobs by chemical and physical activation. Adsorption, 2013, 19, 273-281.	1.4	71
9	Physicochemical and adsorption properties of carbonaceous sorbents prepared by activation of tropical fruit skins with potassium carbonate. Materials and Design, 2016, 90, 579-585.	3.3	69
10	Hydrogen sulphide removal on carbonaceous adsorbents prepared from coffee industry waste materials. Chemical Engineering Journal, 2014, 248, 208-215.	6.6	68
11	Nitrogen-enriched bituminous coal-based active carbons as materials for supercapacitors. Fuel, 2010, 89, 3457-3467.	3.4	60
12	Preparation of modified active carbon from brown coal by ammoxidation. Fuel Processing Technology, 2007, 88, 409-415.	3.7	58
13	Thermal analysis of activated carbon obtained from residue after supercritical extraction of hops. Journal of Thermal Analysis and Calorimetry, 2016, 125, 1199-1204.	2.0	57
14	The influence of activation procedure on the physicochemical and sorption properties of activated carbons prepared from pistachio nutshells for removal of NO 2 /H 2 S gases and dyes. Journal of Cleaner Production, 2017, 152, 211-222.	4.6	54
15	Microporous activated carbons from ammoxidised anthracite and their capacitance behaviours. Fuel, 2007, 86, 1086-1092.	3.4	52
16	Comparison of the effects of different chemical activation methods on properties of carbonaceous adsorbents obtained from cherry stones. Chemical Engineering Research and Design, 2014, 92, 1187-1191.	2.7	49
17	Carbonaceous adsorbents prepared by physical activation of pine sawdust and their application for removal of NO2 in dry and wet conditions. Bioresource Technology, 2010, 101, 5802-5807.	4.8	48
18	Effect of ammoxidation of activated carbons obtained from sub-bituminous coal on their NO2 sorption capacity under dry conditions. Chemical Engineering Journal, 2011, 166, 1039-1043.	6.6	48

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19	Biochars and activated carbons as adsorbents of inorganic and organic compounds from multicomponent systems â€“ A review. Advances in Colloid and Interface Science, 2022, 305, 102687.	7.0	47
20	NO2 removal on adsorbents obtained by pyrolysis and physical activation of corrugated cardboard. Chemical Engineering Journal, 2012, 195-196, 7-14.	6.6	45
21	Influence of the Precursor Metamorphism Degree on Preparation of Nitrogen-enriched Activated Carbons by Ammoxidation and Chemical Activation of Coals. Energy & Fuels, 2009, 23, 2205-2212.	2.5	42
22	Comparison of Physicochemical Properties of Nitrogen-enriched Activated Carbons Prepared by Physical and Chemical Activation of Brown Coal. Energy & Fuels, 2008, 22, 4133-4138.	2.5	41
23	Biomass-derived hierarchical carbon as sulfur cathode stabilizing agent for lithium-sulfur batteries. Solid State Ionics, 2016, 297, 59-63.	1.3	39
24	Nanostructure of Poly(Acrylic Acid) Adsorption Layer on the Surface of Activated Carbon Obtained from Residue After Supercritical Extraction of Hops. Nanoscale Research Letters, 2017, 12, 2.	3.1	37
25	Adsorption of poly(acrylic acid) on the surface of microporous activated carbon obtained from cherry stones. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 514, 137-145.	2.3	34
26	Siberian anthracite as a precursor material for microporous activated carbons. Fuel, 2008, 87, 2037-2040.	3.4	33
27	NO2 removal on adsorbents prepared from coffee industry waste materials. Adsorption, 2013, 19, 521-528.	1.4	33
28	Thermal and physicochemical properties of phosphorus-containing activated carbons obtained from biomass. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 1006-1013.	2.7	32
29	Production of activated carbons from biodegradable waste materials as an alternative way of their utilisation. Adsorption, 2016, 22, 489-502.	1.4	31
30	Effect of activation method on the physicochemical properties and NO2 removal abilities of sorbents obtained from plum stones (Prunus domestica). Chemical Engineering Journal, 2010, 162, 723-729.	6.6	28
31	The use of microwave radiation for obtaining activated carbons enriched in nitrogen. Powder Technology, 2015, 273, 71-75.	2.1	27
32	Production of new activated bio-carbons by chemical activation of residue left after supercritical extraction of hops. Environmental Research, 2018, 161, 456-463.	3.7	26
33	Nitrogen-enriched activated carbons prepared by the activation of coniferous tree sawdust and their application in the removal of Nitrogen dioxide. International Journal of Environmental Science and Technology, 2015, 12, 2233-2244.	1.8	25
34	Simultaneous removal of lead(II) ions and poly(acrylic acid) macromolecules from liquid phase using of biocarbons obtained from corncob and peanut shell precursors. Journal of Molecular Liquids, 2019, 296, 111806.	2.3	25
35	Characterization and application of bio-activated carbons prepared by direct activation of hay with the use of microwave radiation. Powder Technology, 2017, 319, 302-312.	2.1	24
36	Thermal degradation of peat-based activated carbons covered with mixed adsorption layers of PAA polymer and SDS surfactant. Thermochimica Acta, 2019, 676, 71-83.	1.2	22

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37	The effect of mineral matter on the physicochemical and sorption properties of brown coal-based activated carbons. Adsorption, 2016, 22, 561-569.	1.4	21
38	Peat-based activated carbons as adsorbents for simultaneous separation of organic molecules from mixed solution of poly(acrylic acid) polymer and sodium dodecyl sulfate surfactant. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124179.	2.3	21
39	Simultaneous removal of toxic Pb(II) ions, poly(acrylic acid) and Triton X-100 from their mixed solution using engineered biochars obtained from horsetail herb precursor â€“ Impact of post-activation treatment. Separation and Purification Technology, 2021, 276, 119297.	3.9	21
40	Hay-based activated biochars obtained using two different heating methods as effective low-cost sorbents: Solid surface characteristics, adsorptive properties and aggregation in the mixed Cu(II)/PAM system. Chemosphere, 2020, 250, 126312.	4.2	19
41	Composite sulfur cathode for Li-S batteries comprising hierarchical carbon obtained from waste PET bottles. Synthetic Metals, 2020, 261, 116305.	2.1	19
42	The influence of oxidation with nitric acid on the preparation and properties of active carbon enriched in nitrogen. Applied Surface Science, 2009, 255, 3586-3593.	3.1	17
43	Sorption Properties of Carbonaceous Adsorbents Obtained by Pyrolysis and Activation of Pistachio Nut Shells. Adsorption Science and Technology, 2015, 33, 581-586.	1.5	17
44	Effect of heat treatment on the physicochemical properties of nitrogen-enriched activated carbons. Journal of Thermal Analysis and Calorimetry, 2016, 125, 1017-1024.	2.0	17
45	Removal of NO2 from gas stream by activated bio-carbons from physical activation of residue of supercritical extraction of hops. Chemical Engineering Research and Design, 2021, 166, 67-73.	2.7	16
46	Removal of Heavy Metal Ions from One- and Two-Component Solutions via Adsorption on N-Doped Activated Carbon. Materials, 2021, 14, 7045.	1.3	16
47	The effect of chemical activation method on properties of activated carbons obtained from pine cones. Open Chemistry, 2013, 11, 78-85.	1.0	15
48	The effect of demineralization on the physicochemical and sorption properties of activated bio-carbons. Adsorption, 2019, 25, 337-343.	1.4	15
49	The influence of silver on the physicochemical and catalytic properties of activated carbons. Chemical Engineering Journal, 2012, 189-190, 422-430.	6.6	14
50	Influence of protein internal stability on its removal mechanism from aqueous solutions using eco-friendly horsetail herb-based engineered biochar. Chemical Engineering Journal, 2020, 388, 124156.	6.6	14
51	Thermal analysis of activated carbons modified with silver metavanadate. Thermochimica Acta, 2012, 541, 42-48.	1.2	11
52	Removal of NO2 by carbonaceous adsorbents obtained from residue after supercritical extraction of marigold. Adsorption, 2016, 22, 465-471.	1.4	11
53	Processing Organic Waste Towards High Performance Carbon Electrodes for Electrochemical Capacitors. International Journal of Electrochemical Science, 2017, 12, 128-143.	0.5	11
54	Toxic gases removal onto activated carbons obtained from hay with the use of microwave radiation. Chemical Engineering Research and Design, 2016, 109, 346-353.	2.7	10

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55	Activated Bio-Carbons Prepared from the Residue of Supercritical Extraction of Raw Plants and Their Application for Removal of Nitrogen Dioxide and Hydrogen Sulfide from the Gas Phase. Materials, 2021, 14, 3192.	1.3	10
56	Removal of Organic Dyes from Aqueous Solutions by Activated Carbons Prepared from Residue of Supercritical Extraction of Marigold. Materials, 2022, 15, 3655.	1.3	9
57	Textural, surface, thermal and sorption properties of the functionalized activated carbons and carbon nanotubes. Polish Journal of Chemical Technology, 2015, 17, 120-127.	0.3	8
58	Influence of surfactants with different ionic character on the structure of poly(acrylic acid) adsorption layer on the activated biocarbons surface â€“ electrokinetic and stability studies. Journal of Molecular Liquids, 2021, 332, 115872.	2.3	8
59	Comparison of physicochemical, sorption and electrochemical properties of nitrogen-doped activated carbons obtained with the use of microwave and conventional heating. Adsorption, 2019, 25, 405-417.	1.4	7
60	Coniferous Wood Sawdust-based Activated Carbons as Adsorbents Obtained with the Use of Microwave Radiation. Journal of Wood Chemistry and Technology, 2018, 38, 286-299.	0.9	6
61	Application of microwave heating in the preparation of functionalized activated carbons. Adsorption, 2019, 25, 327-336.	1.4	6
62	N-doped sawdust-based activated biocarbons prepared by microwave-assisted heat treatment as potential electrode materials for supercapacitors. Journal of Wood Chemistry and Technology, 2021, 41, 307-320.	0.9	6
63	Adsorption, viscosity and thermal behaviour of nanosized proteins with different internal stability immobilised on the surface of mesoporous activated biocarbon obtained from the horsetail herb precursor. Applied Nanoscience (Switzerland), 2022, 12, 1323-1336.	1.6	5
64	Characterization and application of spherical carbonaceous materials prepared with the use of microwave radiation. Diamond and Related Materials, 2020, 108, 107927.	1.8	4
65	The Effect of Ammoxidation Process on NO2Sorption Abilities of Active Carbons. Acta Physica Polonica A, 2010, 118, 493-499.	0.2	4
66	Removal of NO2 by adsorbents made of a residue from supercritical extraction of camomile Usuwanie NO2 za pomocÄ… adsorbentÃ³w otrzymanych z pozostaÅ‚oÅ›ci po ekstrakcji nadkrytycznej rumianku. Przemysl Chemiczny, 2016, 1, 178-182.	0.0	2
67	Adsorption of organic dyes onto activated carbons obtained from agricultural and industrial waste materials Adsorpcja barwnikÃ³w organicznych na wÄ™glach aktywnych otrzymanych z porolniczych i poprodukcyjnych materiaÅ‚Ã³w odpadowych. Przemysl Chemiczny, 2016, 1, 48-53.	0.0	1
68	The effect of flame coal oxidation on the solid and soluble products of its extraction. Open Chemistry, 2005, 3, 852-865.	1.0	0
69	Preparation and physicochemical characterisation of functionalised multi-walled carbon nanotubes. Adsorption, 2016, 22, 481-488.	1.4	0
70	Removal of methylene blue from aqueous solutions via adsorption on activated biocarbon obtained from post-extraction residue. Physicochemical Problems of Mineral Processing, 2022, , .	0.2	0