

Jacek Machnikowski

List of Publications by Year in descending order

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26
papers

3,084
citations

279798

23
h-index

552781

26
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26
all docs

26
docs citations

26
times ranked

3804
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationship between the nanoporous texture of activated carbons and their capacitance properties in different electrolytes. <i>Carbon</i> , 2006, 44, 2498-2507.	10.3	878
2	Electrochemical capacitors based on highly porous carbons prepared by KOH activation. <i>Electrochimica Acta</i> , 2004, 49, 515-523.	5.2	396
3	Effect of nitrogen in carbon electrode on the supercapacitor performance. <i>Chemical Physics Letters</i> , 2005, 404, 53-58.	2.6	334
4	Optimisation of supercapacitors using carbons with controlled nanotexture and nitrogen content. <i>Electrochimica Acta</i> , 2006, 51, 2209-2214.	5.2	308
5	Effect of pore size distribution of coal-based activated carbons on double layer capacitance. <i>Electrochimica Acta</i> , 2005, 50, 1197-1206.	5.2	300
6	Capacitance behavior of KOH activated mesocarbon microbeads in different aqueous electrolytes. <i>Electrochimica Acta</i> , 2012, 86, 260-267.	5.2	90
7	The characterization of coal macerals by diffuse reflectance infrared spectroscopy. <i>Fuel</i> , 2002, 81, 245-252.	6.4	85
8	Granular KOH-activated carbons from coal-based cokes and their CO ₂ adsorption capacity. <i>Fuel</i> , 2014, 118, 9-15.	6.4	75
9	Structural and electrochemical characterisation of nitrogen enriched carbons produced by the co-pyrolysis of coal-tar pitch with polyacrylonitrile. <i>Electrochimica Acta</i> , 2004, 49, 423-432.	5.2	64
10	Optimizing the properties of granular walnut-shell based KOH activated carbons for carbon dioxide adsorption. <i>Journal of CO₂ Utilization</i> , 2017, 21, 436-443.	6.8	60
11	Mechanism of co-pyrolysis of coal-tar pitch with polyacrylonitrile. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 67, 77-93.	5.5	48
12	Surface chemistry of porous carbons from N-polymers and their blends with pitch. <i>Microporous and Mesoporous Materials</i> , 2005, 82, 113-120.	4.4	42
13	Mesophase development in coal-tar pitch modified with various polymers. <i>Journal of Analytical and Applied Pyrolysis</i> , 2002, 65, 147-160.	5.5	41
14	KOH activation of pitch-derived carbonaceous materials—Effect of carbonization degree. <i>Fuel Processing Technology</i> , 2011, 92, 158-165.	7.2	41
15	Guanidine, amitrole and imidazole as nitrogen dopants for the synthesis of N-graphenes. <i>RSC Advances</i> , 2016, 6, 15782-15787.	3.6	36
16	Mechanism of co-pyrolysis of coal-tar pitch with polyvinylpyridine. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 72, 121-130.	5.5	35
17	<i>Miscanthus</i> and <i>Giganteus</i> straw and pellets as sustainable fuels and raw material for activated carbon. <i>Environmental Chemistry Letters</i> , 2006, 4, 185-189.	16.2	35
18	Towards the realistic silicon/carbon composite for Li-ion secondary battery anode. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 1-10.	2.9	35

#	ARTICLE	IF	CITATIONS
19	Properties and lithium insertion behavior of hard carbons produced by pyrolysis of various polymers at 1000°C. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 102, 1-6.	5.5	33
20	Structural modification of coal-tar pitch fractions during mild oxidation—relevance to carbonization behavior. <i>Carbon</i> , 2002, 40, 1937-1947.	10.3	30
21	High temperature ammonia treatment of pitch particulates and fibers for nitrogen enriched microporous carbons. <i>Fuel Processing Technology</i> , 2014, 119, 211-217.	7.2	30
22	Narrow-porous pitch-based carbon fibers of superior capacitance properties in aqueous electrolytes. <i>Electrochimica Acta</i> , 2015, 167, 348-356.	5.2	29
23	Tailoring Porosity Development in Monolithic Adsorbents Made of KOH-Activated Pitch Coke and Furfuryl Alcohol Binder for Methane Storage. <i>Energy & Fuels</i> , 2010, 24, 3410-3414.	5.1	24
24	Co-treatment of novolac- and resole-type phenolic resins with coal-tar pitch for porous carbons. <i>Journal of Analytical and Applied Pyrolysis</i> , 2006, 76, 80-87.	5.5	19
25	Cellulose-based carbon—A potential anode material for lithium-ion battery. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 86, 215-222.	4.0	14
26	Effect of PAN Oxidation on the Electrochemical Lithium Insertion/Deinsertion Behavior of Resultant Carbons. <i>Journal of Chemistry</i> , 2015, 2015, 1-10.	1.9	2