

Grzegorz Lota

List of Publications by Year in descending order

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96
papers

6,510
citations

101384

36
h-index

62479

80
g-index

99
all docs

99
docs citations

99
times ranked

7305
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel insight into neutral medium as electrolyte for high-voltage supercapacitors. Energy and Environmental Science, 2012, 5, 5842-5850.	15.6	695
2	Carbon nanotubes and their composites in electrochemical applications. Energy and Environmental Science, 2011, 4, 1592.	15.6	535
3	Templated mesoporous carbons for supercapacitor application. Electrochimica Acta, 2005, 50, 2799-2805.	2.6	399
4	Electrochemical capacitors based on highly porous carbons prepared by KOH activation. Electrochimica Acta, 2004, 49, 515-523.	2.6	396
5	Effect of nitrogen in carbon electrode on the supercapacitor performance. Chemical Physics Letters, 2005, 404, 53-58.	1.2	334
6	Optimisation of supercapacitors using carbons with controlled nanotexture and nitrogen content. Electrochimica Acta, 2006, 51, 2209-2214.	2.6	308
7	Effect of pore size distribution of coal-based activated carbons on double layer capacitance. Electrochimica Acta, 2005, 50, 1197-1206.	2.6	300
8	A Self-Supporting Electrode for Supercapacitors Prepared by One-Step Pyrolysis of Carbon Nanotube/Polyacrylonitrile Blends. Advanced Materials, 2005, 17, 2380-2384.	11.1	298
9	Striking capacitance of carbon/iodide interface. Electrochemistry Communications, 2009, 11, 87-90.	2.3	248
10	Nanotubes based composites rich in nitrogen for supercapacitor application. Electrochemistry Communications, 2007, 9, 1828-1832.	2.3	239
11	Improvement of the structural and chemical properties of a commercial activated carbon for its application in electrochemical capacitors. Electrochimica Acta, 2008, 53, 2210-2216.	2.6	222
12	Room-temperature phosphonium ionic liquids for supercapacitor application. Applied Physics Letters, 2005, 86, 164104.	1.5	169
13	Alkali metal iodide/carbon interface as a source of pseudocapitance. Electrochemistry Communications, 2011, 13, 38-41.	2.3	166
14	Electrochemistry Serving People and Nature: High-Energy Ecocapacitors based on Redox-Active Electrolytes. ChemSusChem, 2012, 5, 1181-1185.	3.6	148
15	Carbon nanotubes with Pt-Ru catalyst for methanol fuel cell. Electrochemistry Communications, 2006, 8, 129-132.	2.3	123
16	Tuning electronic property and surface reconstruction of amorphous iron borides via W-P co-doping for highly efficient oxygen evolution. Applied Catalysis B: Environmental, 2021, 288, 120037.	10.8	108
17	Electrochemical properties of supercapacitors operating in aqueous electrolyte with surfactants. Electrochimica Acta, 2010, 55, 7484-7488.	2.6	97
18	Electrochemical performance of a hybrid lithium-ion capacitor with a graphite anode preloaded from lithium bis(trifluoromethane)sulfonimide-based electrolyte. Electrochimica Acta, 2012, 86, 282-286.	2.6	97

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19	Carbon materials modified by plasma treatment as electrodes for supercapacitors. <i>Journal of Power Sources</i> , 2010, 195, 7535-7539.	4.0	73
20	Saccharide-based graphitic carbon nanocoils as supports for PtRu nanoparticles for methanol electrooxidation. <i>Journal of Power Sources</i> , 2007, 171, 546-551.	4.0	71
21	Novel nanostructured hematiteâ€‘spongin composite developed using an extreme biomimetic approach. <i>RSC Advances</i> , 2015, 5, 79031-79040.	1.7	71
22	Hybrid materials for supercapacitor application. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 811-816.	1.2	70
23	Synthesis and Properties of Trigeminal Tricationic Ionic Liquids. <i>Chemistry - A European Journal</i> , 2007, 13, 3106-3112.	1.7	67
24	The application of activated carbon modified by ozone treatment for energy storage. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2857-2864.	1.2	61
25	The effect of lignosulfonates as electrolyte additives on the electrochemical performance of supercapacitors. <i>Electrochemistry Communications</i> , 2011, 13, 470-473.	2.3	57
26	Supercapacitors Based on Nickel Oxide/Carbon Materials Composites. <i>International Journal of Electrochemistry</i> , 2011, 2011, 1-6.	2.4	55
27	Synthesis of nanostructured chitinâ€‘hematite composites under extreme biomimetic conditions. <i>RSC Advances</i> , 2014, 4, 61743-61752.	1.7	53
28	Anti-corrosive properties of silane coatings deposited on anodised aluminium. <i>Electrochimica Acta</i> , 2016, 220, 1-10.	2.6	53
29	The influence of current collector corrosion on the performance of electrochemical capacitors. <i>Journal of Power Sources</i> , 2017, 368, 18-29.	4.0	52
30	Extreme biomimetics: A carbonized 3D spongin scaffold as a novel support for nanostructured manganese oxide(IV) and its electrochemical applications. <i>Nano Research</i> , 2018, 11, 4199-4214.	5.8	51
31	Effect of surfactants on capacitance properties of carbon electrodes. <i>Electrochimica Acta</i> , 2012, 60, 206-212.	2.6	45
32	Corrosion of aluminium current collector in lithium-ion batteries: A review. <i>Journal of Energy Storage</i> , 2021, 43, 103226.	3.9	45
33	High performance supercapacitor from chromium oxide-nanotubes based electrodes. <i>Chemical Physics Letters</i> , 2007, 434, 73-77.	1.2	43
34	Humic acids as pseudocapacitive electrolyte additive for electrochemical double layer capacitors. <i>Journal of Power Sources</i> , 2014, 255, 230-234.	4.0	40
35	Capacitance of Fe ₃ O ₄ /rGO nanocomposites in an aqueous hybrid electrochemical storage device. <i>Journal of Power Sources</i> , 2015, 293, 42-50.	4.0	40
36	Carbon/polypyrrole composites for electrochemical capacitors. <i>Synthetic Metals</i> , 2015, 203, 44-48.	2.1	36

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37	Boronâ€Doped Polygonal Carbon Nanoâ€Onions: Synthesis and Applications in Electrochemical Energy Storage. <i>Chemistry - A European Journal</i> , 2017, 23, 7132-7141.	1.7	36
38	The capacitance properties of activated carbon obtained from chitosan as the electrode material for electrochemical capacitors. <i>Materials Letters</i> , 2016, 173, 72-75.	1.3	31
39	Pseudocapacitance Effects for Enhancement of Capacitor Performance. <i>Fuel Cells</i> , 2010, 10, 848-855.	1.5	30
40	Improvement of the Structural and Chemical Properties of Carbon Nanoâ€Onions for Electrocatalysis. <i>ChemNanoMat</i> , 2017, 3, 583-590.	1.5	24
41	Nickel Coatings Electrodeposited from Watts Type Baths Containing Quaternary Ammonium Sulphate Salts. <i>International Journal of Electrochemical Science</i> , 2017, 12, 3350-3360.	0.5	24
42	Fuel cell testing of Ptâ€Ru catalysts supported on differently prepared and pretreated carbon nanotubes. <i>Electrochimica Acta</i> , 2013, 98, 94-103.	2.6	22
43	Removal of herbicidal ionic liquids by electrochemical advanced oxidation processes combined with biological treatment. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1093-1099.	1.2	22
44	The impact of solvents on the singlet and triplet states of selected fluorine corroles â€ absorption, fluorescence, and optoacoustic studies. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7216-7228.	1.3	20
45	Highly amorphous PbO ₂ as an electrode in hybrid electrochemical capacitors. <i>Current Applied Physics</i> , 2017, 17, 66-71.	1.1	20
46	The modified activated carbon treated with a low-temperature iodine plasma used as electrode material for electrochemical capacitors. <i>Materials Letters</i> , 2016, 175, 96-100.	1.3	18
47	Antiâ€corrosive siloxane coatings for improved longâ€term performance of supercapacitors with an aqueous electrolyte. <i>Electrochimica Acta</i> , 2021, 372, 137840.	2.6	18
48	Effects of addition of different carbon materials on the electrochemical performance of nickel hydroxide electrode. <i>Journal of Power Sources</i> , 2010, 195, 7511-7516.	4.0	17
49	Positive electrode material in lead-acid car battery modified by protic ammonium ionic liquid. <i>Journal of Energy Storage</i> , 2019, 26, 100996.	3.9	17
50	Ionogels by thiol-ene photopolymerization in ionic liquids: Formation, morphology and properties. <i>Polymer</i> , 2019, 160, 272-281.	1.8	17
51	Enhancing the performance of polypyrrole composites as electrode materials for supercapacitors by carbon nanotubes additives. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48867.	1.3	17
52	Taguchi method in experimental procedures focused on corrosion process of positive current collector in lithium-ion batteries. <i>Electrochimica Acta</i> , 2020, 360, 137011.	2.6	17
53	Polysulphides reversible faradaic reactions in supercapacitor application. <i>Electrochemistry Communications</i> , 2016, 68, 28-31.	2.3	16
54	Carbon Fiber and Nickel Coated Carbon Fiberâ€Silica Aerogel Nanocomposite as Low-Frequency Microwave Absorbing Materials. <i>Materials</i> , 2020, 13, 400.	1.3	16

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55	Electrochemical properties of positive electrode in lead-acid battery modified by ammonium-based ionic liquids. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 919-930.	1.2	15
56	Electrocatalytic properties of a cerium/nickel coating deposited using a deep eutectic solvent. <i>Electrochemistry Communications</i> , 2019, 107, 106538.	2.3	14
57	Electrochemical Capacitors Based on Electrodes Made of Lignocellulosic Waste Materials. <i>Waste and Biomass Valorization</i> , 2020, 11, 3863-3871.	1.8	13
58	Partial inhibition of borohydride hydrolysis using porous activated carbon as an effective method to improve the electrocatalytic activity of the DBFC anode. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4401-4413.	2.5	13
59	Electrochemical supercapacitor with thiourea-based aqueous electrolyte. <i>Electrochemistry Communications</i> , 2018, 97, 32-36.	2.3	12
60	Electrocatalytic performance of oxygen-activated carbon fibre felt anodes mediating degradation mechanism of acetaminophen in aqueous environments. <i>Chemosphere</i> , 2022, 304, 135381.	4.2	12
61	Diffusion dialysis and extraction integrated system for recovery of cobalt(II) from industrial effluent. <i>Journal of Water Process Engineering</i> , 2021, 39, 101754.	2.6	11
62	Hybrid electrochemical and biological treatment of herbicidal ionic liquids comprising the MCPA anion. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 172-179.	2.9	10
63	Electrochemical properties of modified negative electrode for Ni-MH cell. <i>Current Applied Physics</i> , 2020, 20, 106-113.	1.1	10
64	Correlation of hydrogen capacity in carbon material with the parameters of electrosorption. <i>Open Chemistry</i> , 2011, 9, 20-24.	1.0	9
65	Corrosion-protective coatings based on fluorocarbonsilane. <i>Progress in Organic Coatings</i> , 2018, 123, 374-383.	1.9	9
66	Correlation between partial inhibition of hydrogen evolution using thiourea and catalytic activity of AB5-type hydrogen storage alloy towards borohydride electrooxidation. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154553.	2.8	9
67	Control of hydrogen release during borohydride electrooxidation with porous carbon materials. <i>RSC Advances</i> , 2021, 11, 15639-15655.	1.7	9
68	Lithium insertion/deinsertion of boron doped graphitic carbons synthesized by different procedure. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1179-1181.	1.9	8
69	Corrosion Protection of Stainless Steel by Triethoxyoctylsilane and Tetraethoxysilane. <i>International Journal of Electrochemical Science</i> , 2016, 11, 8256-8269.	0.5	8
70	Persulfate treatment as a method of modifying carbon electrode material for aqueous electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1079-1088.	1.2	8
71	The Effect of the Substituent Length in Protic Ionic Liquid Additive on the Corrosion Process in the Lead-Acid Battery. <i>International Journal of Electrochemical Science</i> , 2018, 13, 4390-4400.	0.5	7
72	Long-Chain Ionic Liquids Based on Monoquatary DABCO Cations and TFSI Anions: Towards Stable Electrolytes for Electrochemical Capacitors. <i>ChemPlusChem</i> , 2020, 85, 2679-2688.	1.3	7

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73	Ni-La composite coating obtained using deep eutectic solvent and its electrocatalytic activity. <i>Chemical Papers</i> , 2020, 74, 1691-1696.	1.0	6
74	Mixed Diffusion-Kinetic Control of H ₂ O ₂ Oxidation at an Oxide-Covered Platinum Electrode in Alkaline Electrolyte: Implications for Oxygen Electroreduction Studies with a Rotating Ring Disk Electrode. <i>ChemElectroChem</i> , 2021, 8, 839-849.	1.7	6
75	Ozonation with amoxidation as a method of obtaining O, N-doped carbon electrode material to electrochemical capacitors. <i>Electrochimica Acta</i> , 2022, 413, 140130.	2.6	6
76	Limiting ac frequency and dc current of electrochemical double layer capacitors. <i>Journal of Power Sources</i> , 2015, 280, 289-292.	4.0	5
77	The Rapeseed Oil Based Organofunctional Silane for Stainless Steel Protective Coatings. <i>Materials</i> , 2020, 13, 2212.	1.3	5
78	Synthesis and electrochemical properties of carbon nanotubes obtained by pyrolysis of acetylene using AB5 alloy. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 2209-2212.	1.2	4
79	The modification of anode material for direct borohydride fuel cell. <i>Ionics</i> , 2016, 22, 2539-2544.	1.2	4
80	The Influence of Carbon Material Modification on The Pseudocapacitive Effect. <i>Materials Today: Proceedings</i> , 2019, 6, 36-41.	0.9	4
81	Lignin-based dual component additives as effective electrode material for energy management systems. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 268-278.	3.6	4
82	Ionic Liquid Modified Electrochemical Capacitor with Long-Term Performance. <i>ChemElectroChem</i> , 2021, 8, 3685-3694.	1.7	4
83	Quinone/hydroquinone redox couple as a source of enormous capacitance of activated carbon electrodes. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1505, 1.	0.1	3
84	Effect of Alkyltrimethylammonium Ions on Corrosion and Electrochemical Behavior of Pb-Ca-Sn Alloy. <i>International Journal of Electrochemical Science</i> , 2018, 13, 11058-11073.	0.5	3
85	Effect of surfactants on capacitance properties of carbon electrodes. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1333, 110701.	0.1	2
86	Graphene and Graphene Composites in Electrochemical Capacitors and Li-Ion Batteries. <i>ECS Transactions</i> , 2015, 70, 27-36.	0.3	2
87	Highly anti-corrosive treatment of low-carbon steel. <i>Ceramics International</i> , 2021, 47, 24770-24770.	2.3	1
88	Zastosowanie kompozytowych materiaÅ³w polimerowo-metalicznych jako materiaÅ³u elektrodowego w ogniach niklowo-metalowodorkowych. <i>Przemysl Chemiczny</i> , 2017, 1, 26-29.	0.0	1
89	WpÅ³yw dodatku polimerowych cieczy jonowych na wÅ³aÅ³ciwoÅ³ci korozyjne akumulatora kwasowo-oÅ³owiowego. <i>Przemysl Chemiczny</i> , 2017, 1, 22-25.	0.0	0
90	Kondensator asymetryczny typu C/MnO2. <i>Przemysl Chemiczny</i> , 2017, 1, 46-49.	0.0	0

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91	Ciecze jonowe jako dodatek do masy elektrodowej akumulatorów kwasowo-ołowiowych. Przemysł Chemiczny, 2017, 1, 18-21.	0.0	0
92	Wpływ dodatków w węglowych na pojemność elektrod typu AB5. Przemysł Chemiczny, 2017, 1, 40-44.	0.0	0
93	Możliwość ograniczenia korozji stopów ołowiu w akumulatorze kwasowo-ołowiowym poprzez zastosowanie dodatku cieczy jonowych. Ochrona Przed Korozją, 2018, 1, 4-9.	0.1	0
94	Materials under research: Nanomaterials, aerogels, biomaterials, composites, inks. , 2022, , 3-31.		0
95	(Invited) Influence of Current Collector on the Long-Term Performance of Electrochemical Capacitors. ECS Meeting Abstracts, 2020, MA2020-02, 612-612.	0.0	0
96	Capacitor lifetime prolonged by addition of organic ammonium salt with cyclohexyl substituent and 2,5-dihydroxybenzenesulfonic anion. Electrochemistry Communications, 2022, 140, 107326.	2.3	0