Izabela StÄpniak

List of Publications by Year
in descending order

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39 papers	3,931 citations	331670 21 h-index	315739 38 g-index
39 all docs	39 docs citations	39 times ranked	5425 citing authors

#	Article	IF	Citations
1	Ionic liquids as electrolytes. Electrochimica Acta, 2006, 51, 5567-5580.	5.2	2,382
2	Performance of carbonâ€“carbon supercapacitors based on organic, aqueous and ionic liquid electrolytes. Journal of Power Sources, 2010, 195, 5814-5819.	7.8	335
3	Heat capacities of ionic liquids and their heats of solution in molecular liquids. Thermochimica Acta, 2005, 433, 149-152.	2.7	156
4	Oxygen-doped activated carbon fiber cloth as electrode material for electrochemical capacitor. Journal of Power Sources, 2011, 196, 7882-7885.	7.8	116
5	Synthesis and characterization of novel copper oxide-chitosan nanocomposites for non-enzymatic glucose sensing. Sensors and Actuators B: Chemical, 2018, 272, 296-307.	7.8	82
6	A novel chitosan/sponge chitin origin material as a membrane for supercapacitors â€“ preparation and characterization. RSC Advances, 2016, 6, 4007-4013.	3.6	78
7	Electrodes and hydrogel electrolytes based on cellulose: fabrication and characterization as EDLC components. Journal of Solid State Electrochemistry, 2018, 22, 3035-3047.	2.5	62
8	Highly conductive ionic liquid based ternary polymer electrolytes obtained by in situ photopolymerisation. Electrochimica Acta, 2009, 54, 5660-5665.	5.2	54
9	Photoinitiated polymerization in ionic liquids: Kinetics and viscosity effects. Polymer, 2009, 50, 2040-2047.	3.8	51
10	Grafting effect on the wetting and electrochemical performance of carbon cloth electrode and polypropylene separator in electric double layer capacitor. Journal of Power Sources, 2010, 195, 5130-5137.	7.8	45
11	Characterization and application of N-methyl-N-propylpiperidinium bis(trifluoromethanesulfonyl)imide ionic liquidâ€“based gel polymer electrolyte prepared in situ by photopolymerization method in lithium ion batteries. Electrochimica Acta, 2014, 121, 27-33.	5.2	45
12	Dissolution of cellulose in novel carboxylate-based ionic liquids and dimethyl sulfoxide mixed solvents. European Polymer Journal, 2019, 113, 89-97.	5.4	45
13	Morpholinium-based ionic liquid mixtures as electrolytes in electrochemical double layer capacitors. Journal of Applied Electrochemistry, 2009, 39, 1949-1953.	2.9	36
14	Acetate- and lactate-based ionic liquids: Synthesis, characterisation and electrochemical properties. Journal of Molecular Liquids, 2018, 264, 233-241.	4.9	36
15	Relative molar Gibbs energies of cation transfer from a molecular liquid to ionic liquids at 298.15 K. Physical Chemistry Chemical Physics, 2003, 5, 4215-4218.	2.8	35
16	Electrochemical characteristics of a new electric double layer capacitor with acidic polymer hydrogel electrolyte. Electrochimica Acta, 2011, 56, 2477-2482.	5.2	35
17	Nanoparticles of Ni(OH)2 embedded in chitosan membrane as electrocatalyst for non-enzymatic oxidation of glucose. Electrochimica Acta, 2013, 111, 185-191.	5.2	33
18	Properties of Li-graphite and LiFePO4 electrodes in LiPF6â€“sulfolane electrolyte. Electrochimica Acta, 2011, 56, 5972-5978.	5.2	32

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19	Modification of chitin structure with tailored ionic liquids. Carbohydrate Polymers, 2018, 202, 397-403.	10.2	25
20	Compatibility of poly(bisAEA4)-LiTFSIâ€“MPPipTFSI ionic liquid gel polymer electrolyte with Li 4 Ti 5 O 12 lithium ion battery anode. Journal of Power Sources, 2014, 247, 112-116.	7.8	24
21	Synthesis and characterization of modified chitosan membranes for applications in electrochemical capacitor. Electrochimica Acta, 2019, 320, 134632.	5.2	23
22	Extreme Biomimetics: Designing of the First Nanostructured 3D Sponginâ€“Atacamite Composite and its Application. Advanced Materials, 2021, 33, e2101682.	21.0	21
23	New design of electric double layer capacitors with aqueous LiOH electrolyte as alternative to capacitor with KOH solution. Journal of Power Sources, 2010, 195, 2564-2569.	7.8	19
24	Preparation, characterization and redox reactivity of glassy carbon electrode modified with organometallic complex of nickel. Electrochimica Acta, 2012, 76, 462-467.	5.2	19
25	Electrochemical Approach for Isolation of Chitin from the Skeleton of the Black Coral Cirrhipathes sp. (Antipatharia). Marine Drugs, 2020, 18, 297.	4.6	19
26	Electrochemical method for isolation of chitinous 3D scaffolds from cultivated Aplysina aerophoba marine demosponge and its biomimetic application. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	19
27	Copper transport properties in polymer electrolytes based on poly(ethylene oxide) and poly(acrylonitrile). Solid State Ionics, 2001, 143, 425-432.	2.7	16
28	Stability of Ag+ Complexes with Cryptand 222 in Ionic Liquids. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2005, 52, 237-240.	1.6	15
29	Electric double layer capacitors with polymer hydrogel electrolyte based on poly(acrylamide) and modified electrode and separator materials. Electrochimica Acta, 2009, 54, 7396-7400.	5.2	14
30	Highly conductive solid polymer-(ionic liquid) electrolytes prepared by in situ photopolymerization. Polimery, 2006, 51, 859-861.	0.7	11
31	Impedance studies on poly(ethylene oxide)-Cu(CF3SO3)2-sulfolane solid electrolyte. Solid State Ionics, 1998, 111, 99-107.	2.7	9
32	PolyacrylonitrileÃ¢Â€Â“propylene carbonateÃ¢Â€Â“CuX2 (X=Cl, Br, CF3SO3) solid polymer electrolyte. Solid State Ionics, 2000, 128, 145-150.	2.7	9
33	Impedance studies on polyacrylonitrileâ€“CuX2â€“DMSO (X=Cl, Br, CF3SO3) solid polymer electrolyte. Solid State Ionics, 1999, 120, 135-139.	2.7	6
34	Photopolymerization: new investigations, new materials. Polimery, 2009, 54, 327-333.	0.7	6
35	Polyacrylonitrileâ€“sulfolaneâ€“CuX2 (X=Cl, Br, CF3SO3) solid polymer electrolyte. Solid State Ionics, 2001, 140, 361-367.	2.7	5
36	Nickel (II) lignosulfonate as precursor for the deposition of nickel hydroxide nanoparticles on a glassy carbon electrode for oxidative electrocatalysis. Electrochimica Acta, 2014, 134, 355-362.	5.2	5

#	Article	IF	Citations
37	Highly Sensitive, Fast Response and Selective Glucose Detection Based on CuO/Nitrogenâ€doped Carbon Nonâ€enzymatic Sensor. Electroanalysis, 2022, 34, 1725-1734.	2.9	5
38	Impedance studies on poly(acrylonitrile)â€“dimethylsulfoxideâ€“AgX (X=Cl, Br, I) gel electrolytes. Solid State Ionics, 2000, 132, 101-106.	2.7	3
39	SYNTHESIS AND CHARACTERIZATION OF CHITOSAN/SODIUM ALGINATE BLEND MEMBRANE FOR APPLICATION IN AN ELECTROCHEMICAL CAPACITOR. Progress on Chemistry and Application of Chitin and Its Derivatives, 2020, XXV, 174-191.	0.1	0