Alevtina Smirnova

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Lignin Biodegradation with Laccase-Mediator Systems. Frontiers in Energy Research, 2014, 2, .	2.3	220
2	Novel carbon aerogel-supported catalysts for PEM fuel cell application. International Journal of Hydrogen Energy, 2005, 30, 149-158.	7.1	159
3	Flower-shaped lithium nitride as a protective layer via facile plasma activation for stable lithium metal anodes. Energy Storage Materials, 2019, 18, 389-396.	18.0	149
4	Electrospun lignin-derived carbon nanofiber mats surface-decorated with MnO2 nanowhiskers as binder-free supercapacitor electrodes with high performance. Journal of Power Sources, 2016, 325, 541-548.	7.8	102
5	Biodegradation of lignin by fungi, bacteria and laccases. Bioresource Technology, 2016, 220, 414-424.	9.6	90
6	Lignin-derived electrospun carbon nanofiber mats with supercritically deposited Ag nanoparticles for oxygen reduction reaction in alkaline fuel cells. Electrochimica Acta, 2014, 130, 431-438.	5.2	84
7	Thermal Liquefaction of Lignin to Aromatics: Efficiency, Selectivity, and Product Analysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 5106-5122.	6.7	82
8	Long-term stability of sodium borohydrides for hydrogen generation. International Journal of Hydrogen Energy, 2008, 33, 5629-5635.	7.1	63
9	Binder Free Hierarchical Mesoporous Carbon Foam for High Performance Lithium Ion Battery. Scientific Reports, 2017, 7, 1440.	3.3	56
10	Stability of alkaline aqueous solutions of sodium borohydride. International Journal of Hydrogen Energy, 2012, 37, 3313-3318.	7.1	46
11	One-step solid-state in-situ thermal polymerization of silicon-PEDOT nanocomposites for the application in lithium-ion battery anodes. Polymer, 2016, 99, 488-495.	3.8	42
12	Methanol Oxidation and Oxygen Reduction Activity of PtIrCo-Alloy Nanocatalysts Supercritically Deposited within 3D Carbon Aerogel Matrix. Electrochimica Acta, 2015, 182, 20-30.	5.2	35
13	Modification of carbon aerogel supports for PEMFC catalysts. International Journal of Hydrogen Energy, 2009, 34, 8992-8997.	7.1	34
14	Flexible lignin-derived carbon nanofiber substrates functionalized with iron (III) oxide nanoparticles as lithium-ion battery anodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 241, 100-104.	3.5	33
15	Electrochemical stability of lithium halide electrolyte with antiperovskite crystal structure. Electrochimica Acta, 2019, 306, 498-505.	5.2	28
16	Hydrogen generation from sodium borohydride solutions for stationary applications. International Journal of Hydrogen Energy, 2016, 41, 9227-9233.	7.1	23
17	Bi-functionality of samarium- and praseodymium-based perovskite catalysts for oxygen reduction and oxygen evolution reactions in alkaline medium. Journal of Power Sources, 2020, 446, 227234.	7.8	20
18	Effect of water–carbon dioxide ratio on the selectivity of phenolic compounds produced from alkali lignin in sub- and supercritical fluid mixtures. Fuel, 2016, 185, 26-33.	6.4	19

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19	Selective Synthesis of Phenolic Compounds from Alkali Lignin in a Mixture of Sub- and Supercritical Fluids: Catalysis by CO ₂ . Energy & Fuels, 2016, 30, 2137-2143.	5.1	19
20	Mitigating Interfacial Mismatch between Lithium Metal and Garnet-Type Solid Electrolyte by Depositing Metal Nitride Lithiophilic Interlayer. ACS Applied Energy Materials, 2022, 5, 648-657.	5.1	16
21	Toward Selective Lignin Liquefaction: Synergistic Effect of Hetero- and Homogeneous Catalysis in Sub- and Supercritical Fluids. Energy & Fuels, 2017, 31, 578-586.	5.1	13
22	Enzymatic decomposition and electrochemical study of alkali lignin by laccase (Trametes versicolor) in the presence of a natural mediator (methyl syringate). New Journal of Chemistry, 2017, 41, 958-964.	2.8	12
23	Engineering rheology of electrolytes using agar for improving the performance of bioelectrochemical systems. Bioresource Technology, 2018, 263, 242-249.	9.6	10
24	Synthesis of Novel Electrode Materials Using Supercritical Fluids. ECS Transactions, 2009, 19, 9-21.	0.5	9
25	Laccase–natural mediator systems for "green―synthesis of phenolic monomers from alkali lignin. Sustainable Energy and Fuels, 2017, 1, 1573-1579.	4.9	7
26	Mechanism of Alkaline Lignin Oxidation Using Laccase-methyl Syringate Mediator System. International Journal of Chemistry, 2016, 8, 56.	0.3	6
27	Report on Carbon Nano Material Workshop: Challenges and Opportunities. Nanoscale and Microscale Thermophysical Engineering, 2013, 17, 10-24.	2.6	5
28	Iron Modified Graphitized Carbon Aerogels for Sustainable Energy Applications. Materials Research Society Symposia Proceedings, 2013, 1491, 70.	0.1	2
29	Metal Oxides as Catalyst Promoters for Methanol Oxidation. Materials Research Society Symposia Proceedings, 2012, 1446, 60.	0.1	1
30	Porous substrates for intermediate temperature SOFCs and in-cell reforming catalysts. Catalysis for Sustainable Energy, 2013, 1, .	0.7	1
31	Catalytically Active Nanomaterials for Electrochemical Energy Generation and Storage. ACS Symposium Series, 2015, , 137-172.	0.5	1
32	Chemical, morphological, and kinetic study of lead extraction from the Koni Mansur polymetallic deposit. Hydrometallurgy, 2019, 183, 159-165.	4.3	1
33	Catalytic Activity of Ceria-Based Complex Metal Oxides in Alkaline and Acidic Environments. Materials Research Society Symposia Proceedings, 2013, 1542, 1.	0.1	0
34	Magnesium Vapor Reduction of Structured Silica for Lithium Ion Battery Applications. Materials Research Society Symposia Proceedings, 2014, 1643, 1.	0.1	0