

Alevtina Smirnova

List of Publications by Year in descending order

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34
papers

1,404
citations

430843

18
h-index

395678

33
g-index

35
all docs

35
docs citations

35
times ranked

2416
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin Biodegradation with Laccase-Mediator Systems. <i>Frontiers in Energy Research</i> , 2014, 2, .	2.3	220
2	Novel carbon aerogel-supported catalysts for PEM fuel cell application. <i>International Journal of Hydrogen Energy</i> , 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. <i>Energy Storage Materials</i> , 2019, 18, 389-396.	18.0	149
4	Electrospun lignin-derived carbon nanofiber mats surface-decorated with MnO ₂ nanowhiskers as binder-free supercapacitor electrodes with high performance. <i>Journal of Power Sources</i> , 2016, 325, 541-548.	7.8	102
5	Biodegradation of lignin by fungi, bacteria and laccases. <i>Bioresource Technology</i> , 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. <i>Electrochimica Acta</i> , 2014, 130, 431-438.	5.2	84
7	Thermal Liquefaction of Lignin to Aromatics: Efficiency, Selectivity, and Product Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5106-5122.	6.7	82
8	Long-term stability of sodium borohydrides for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5629-5635.	7.1	63
9	Binder Free Hierarchical Mesoporous Carbon Foam for High Performance Lithium Ion Battery. <i>Scientific Reports</i> , 2017, 7, 1440.	3.3	56
10	Stability of alkaline aqueous solutions of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 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. <i>Polymer</i> , 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. <i>Electrochimica Acta</i> , 2015, 182, 20-30.	5.2	35
13	Modification of carbon aerogel supports for PEMFC catalysts. <i>International Journal of Hydrogen Energy</i> , 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. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 241, 100-104.	3.5	33
15	Electrochemical stability of lithium halide electrolyte with antiperovskite crystal structure. <i>Electrochimica Acta</i> , 2019, 306, 498-505.	5.2	28
16	Hydrogen generation from sodium borohydride solutions for stationary applications. <i>International Journal of Hydrogen Energy</i> , 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. <i>Journal of Power Sources</i> , 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. <i>Fuel</i> , 2016, 185, 26-33.	6.4	19

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