

Nina Smirnova

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

686
citations

16
h-index

23
g-index

65
ext. papers

830
ext. citations

2.4
avg, IF

4.15
L-index

#	Paper	IF	Citations
65	Graphene structures prepared via pulse alternating current technique. <i>Mendeleev Communications</i> , 2022 , 32, 308-310	1.9	
64	Mechanism of the platinum nanoparticles formation under conditions of nonstationary electrolysis. <i>Mendeleev Communications</i> , 2021 , 31, 224-226	1.9	
63	Furan monomers and polymers from renewable plant biomass. <i>Russian Chemical Reviews</i> , 2021 , 90, 750-784	10	
62	Photocatalytic degradation of ciprofloxacin in water at nano-ZnO prepared by pulse alternating current electrochemical synthesis. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101809	6.7	7
61	New Bio-Based Furanic Materials Effectively Absorb Metals from Water and Exert Antimicrobial Activity. <i>Chemistry - A European Journal</i> , 2021 , 27, 3382-3396	4.8	2
60	Non-Isothermal Decomposition as Efficient and Simple Synthesis Method of NiO/C Nanoparticles for Asymmetric Supercapacitors. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
59	One-step synthesis of Fe ₂ O ₃ /Fe ₃ O ₄ nanocomposite for sensitive electrochemical detection of hydrogen peroxide. <i>Electrochimica Acta</i> , 2021 , 370, 137723	6.7	7
58	One step simultaneous electrochemical synthesis of NiO/multilayer graphene nanocomposite as an electrode material for high performance supercapacitors. <i>Mendeleev Communications</i> , 2021 , 31, 160-162	1.9	2
57	Bio-Based Anti-Corrosion Polymer Coating for Fuel Cells Bipolar Plates. <i>Key Engineering Materials</i> , 2020 , 869, 413-418	0.4	2
56	Selective Photocatalytic Oxidation of 5-HMF in Water over Electrochemically Synthesized TiO ₂ Nanoparticles. <i>Processes</i> , 2020 , 8, 647	2.9	6
55	PAC Synthesis and Comparison of Catalysts for Direct Ethanol Fuel Cells. <i>Processes</i> , 2020 , 8, 712	2.9	2
54	Electrochemical dispersion technique for the preparation of Sn-doped Pt particles and their use as electrocatalysts. <i>Mendeleev Communications</i> , 2020 , 30, 663-665	1.9	2
53	New Plasticizers on the Based on 2,5-Furandicarboxylic Acid and 5,5-Oxy-Bis(methylene)bis-Furane-2-Carboxylic Acid Diesters. <i>Key Engineering Materials</i> , 2020 , 869, 175-184	0.4	1
52	Bio-Based Conductive Polymer Composite Materials for Fuel Cells Bipolar Plates. <i>Key Engineering Materials</i> , 2020 , 869, 591-596	0.4	3
51	A Comparison of Bottom-Up and Top-Down Approaches to the Synthesis of Pt/C Electrocatalysts. <i>Processes</i> , 2020 , 8, 947	2.9	5
50	Synthesis of Furanic Polyamides and Composite Coatings from Plant Biomass. <i>Key Engineering Materials</i> , 2019 , 816, 84-89	0.4	1
49	Electrocatalytic Properties of Rh/C and Pt-Rh/C Catalysts Fabricated by the Method of Electrochemical Dispersion. <i>Russian Journal of Electrochemistry</i> , 2019 , 55, 346-350	1.2	

48	Efficient synthesis of diallyl esters of the furan series from fructose and preparation of copolymers on their basis. <i>Russian Chemical Bulletin</i> , 2019 , 68, 570-577	1.7	3
47	Electrochemical Synthesis of TiO ₂ under Pulse Alternating Current: Effect of Thermal Treatment on the Photocatalytic Activity. <i>ChemistrySelect</i> , 2019 , 4, 2001-2007	1.8	2
46	New Electrochemical Approach for the Synthesis of Pd-PdO/C Electrocatalyst and Application to Formic Acid Electrooxidation. <i>ChemistrySelect</i> , 2019 , 4, 8390-8393	1.8	2
45	Photocatalytic properties of SnO ₂ /SnO nanocomposite prepared via pulse alternating current synthesis. <i>Mendeleev Communications</i> , 2019 , 29, 215-217	1.9	14
44	Large-scale synthesis of ZnO nanostructures by pulse electrochemical method and their photocatalytic properties. <i>Materials Science in Semiconductor Processing</i> , 2018 , 76, 7-13	4.3	18
43	Influence of Carbon Support on Catalytic Layer Performance of Proton Exchange Membrane Fuel Cells. <i>Electrocatalysis</i> , 2018 , 9, 22-30	2.7	8
42	PtIr/C Catalysts Synthesized by Electrochemical Dispersion Method for Proton Exchange Membrane Fuel Cells. <i>Russian Journal of Electrochemistry</i> , 2018 , 54, 561-565	1.2	3
41	Non-isothermal decomposition of platinum acetylacetonate as a cost-efficient and Size-Controlled Synthesis of Pt/C nanoparticles. <i>Catalysis Communications</i> , 2018 , 117, 14-18	3.2	3
40	Selective Oxidation of 5-(Hydroxymethyl)furfural to Furan-2,5-dicarbaldehyde with Sodium Nitrite in Phosphoric Acid. <i>Russian Journal of Organic Chemistry</i> , 2018 , 54, 414-418	0.7	3
39	X-Ray Spectral Studies of the Interface Interaction in CuOx/MWCNTs Nanocomposite. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2018 , 124, 478-482	0.7	1
38	Copper oxides for energy storage application: Novel pulse alternating current synthesis. <i>Materials Science in Semiconductor Processing</i> , 2018 , 73, 111-116	4.3	14
37	Electrochemically synthesized Pt-based catalysts with different carbon supports for proton exchange membrane fuel cell applications. <i>Mendeleev Communications</i> , 2018 , 28, 444-446	1.9	6
36	Base-free aerobic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Pt/C catalysts synthesized by pulse alternating current technique. <i>Mendeleev Communications</i> , 2018 , 28, 431-433	1.9	10
35	In Situ Investigation of Non-Isothermal Decomposition of Pt Acetylacetonate as One-Step Size-Controlled Synthesis of Pt Nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800488	1.6	1
34	Synthesis of Co ₃ O ₄ /CoOOH via electrochemical dispersion using a pulse alternating current method for lithium-ion batteries and supercapacitors. <i>Solid State Sciences</i> , 2018 , 86, 53-59	3.4	10
33	Sustainable Utilization of Biomass Refinery Wastes for Accessing Activated Carbons and Supercapacitor Electrode Materials. <i>ChemSusChem</i> , 2018 , 11, 3599-3608	8.3	55
32	On the Evaluation of the Average Crystalline Size and Surface Area of Platinum Catalyst Nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800240	1.3	6
31	Electrochemical Synthesis and Photocatalytic Activity of Differently Shaped CuOx Particles. <i>Nano Hybrids and Composites</i> , 2017 , 13, 330-333	0.7	0

30	Electrochemically synthesized Pt/ TiO ₂ -C catalysts for direct methanol fuel cell applications. <i>Mendeleev Communications</i> , 2017 , 27, 67-69	1.9	26
29	Interaction between NiOx and MWNT in NiOx/MWNTs composite: XANES and XPS study. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017 , 220, 76-80	1.7	4
28	Thermal expansion coefficient of carbon-supported Pt nanoparticles: In-situ X-ray diffraction study. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600695	1.3	9
27	One-step Simultaneous Synthesis of Graphene and Pt Nanoparticles under the Action of Pulsed Alternating Current and Electrochemical Performance of Pt/Graphene Catalysts. <i>ChemistrySelect</i> , 2017 , 2, 6979-6983	1.8	5
26	A TEMPO-like nitroxide combined with an alkyl-substituted pyridine: An efficient catalytic system for the selective oxidation of alcohols with iodine. <i>Tetrahedron Letters</i> , 2017 , 58, 3517-3521	2	15
25	Technological aspects of fructose conversion to high-purity 5-hydroxymethylfurfural, a versatile platform chemical. <i>Russian Journal of Organic Chemistry</i> , 2016 , 52, 767-771	0.7	23
24	Selective Synthesis of 2,5-Diformylfuran by Sustainable 4-acetamido-TEMPO/Halogen-Mediated Electrooxidation of 5-Hydroxymethylfurfural. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2578-85	4.5	19
23	Electrochemical Dispersion Method for TiO ₂ Nanoparticles Preparation. <i>Key Engineering Materials</i> , 2016 , 683, 419-423	0.4	2
22	Electrochemical dispersion method for the synthesis of SnO ₂ as anode material for lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , 2016 , 46, 527-538	2.6	18
21	Investigation of the Morphological, Atomic and Electronic Structural Changes CuOx Nanoparticles and CNT in a Nanocomposite CuOx/CNT: SEM and X-Ray Spectroscopic Studies. <i>Key Engineering Materials</i> , 2016 , 683, 215-220	0.4	2
20	Electrochemically Synthesized Pt/Al ₂ O ₃ Oxidation Catalysts. <i>Catalysis Letters</i> , 2016 , 146, 452-463	2.8	19
19	Electrochemical dispersion technique for preparation of hybrid MO x N supports and Pt/MO x N electrocatalysts for low-temperature fuel cells. <i>Journal of Applied Electrochemistry</i> , 2016 , 46, 1245-1260	2.6	25
18	Characterization of the electrocatalytic activity of carbon-supported platinum-based catalysts by thermal gravimetric analysis. <i>Mendeleev Communications</i> , 2015 , 25, 468-469	1.9	20
17	On the mechanism of electrochemical dispersion of platinum under the action of alternating current. <i>Russian Chemical Bulletin</i> , 2015 , 64, 2769-2775	1.7	4
16	The role of carbon support morphology in the formation of catalytic layer of solid-polymer fuel cell. <i>Russian Journal of Electrochemistry</i> , 2014 , 50, 899-903	1.2	6
15	Size dependence of the lattice parameters of carbon supported platinum nanoparticles: X-ray diffraction analysis and theoretical considerations. <i>RSC Advances</i> , 2014 , 4, 35959-35965	3.7	61
14	Pt/SnOx-C composite material for electrocatalysis. <i>Mendeleev Communications</i> , 2014 , 24, 351-352	1.9	20
13	Structural and electrocatalytic properties of Pt/C and Pt-Ni/C catalysts prepared by electrochemical dispersion. <i>Kinetics and Catalysis</i> , 2013 , 54, 255-262	1.5	18

12	Electrochemical dispergation as a simple and effective technique toward preparation of NiO based nanocomposite for supercapacitor application. <i>Electrochimica Acta</i> , 2013 , 114, 356-362	6.7	35
11	New life of a forgotten method: Electrochemical route toward highly efficient Pt/C catalysts for low-temperature fuel cells. <i>Applied Catalysis A: General</i> , 2012 , 431-432, 120-125	5.1	44
10	The compressibility of nanocrystalline Pt. <i>Applied Physics Letters</i> , 2012 , 101, 173111	3.4	13
9	Mobility of protons in 12-phosphotungstic acid and its acid and neutral salts. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2767-2775	2.6	24
8	Adsorption and electrooxidation of dimethyl ether on platinized platinum electrode in sulfuric acid solution. <i>Russian Journal of Electrochemistry</i> , 2010 , 46, 212-217	1.2	8
7	Binary Pt-Me/C nanocatalysts: Structure and catalytic properties toward the oxygen reduction reaction. <i>Nanotechnologies in Russia</i> , 2009 , 4, 309-318	0.6	14
6	Electrooxidation and adsorption of oligoelthylene glycols on platinized platinum electrode. <i>Russian Journal of Electrochemistry</i> , 2008 , 44, 353-356	1.2	3
5	Pt-Ru electrodeposited on gold from chloride electrolytes. <i>Electrochimica Acta</i> , 2007 , 52, 2775-2784	6.7	30
4	Adsorption of polyethylene glycol on platinum electrode from acidic solutions. <i>Russian Journal of Electrochemistry</i> , 2006 , 42, 995-1000	1.2	7
3	Photochemical Preparation of Nanometric Nickel Particles. Catalytic Properties. <i>Russian Journal of General Chemistry</i> , 2004 , 74, 331-334	0.7	
2	Electrochemical Hydrogenation of α -Arylvinylphosphonic Acids on Platinum and Palladium Modified with Adatoms. <i>Russian Journal of Electrochemistry</i> , 2002 , 38, 626-632	1.2	
1	Strategy for Controlling the Kolbe Electrosynthesis in the Presence of Aromatic Fragments and Amino Groups in the Molecule. <i>Russian Journal of Electrochemistry</i> , 2001 , 37, 893-898	1.2	1