Roman A Manzhos

List of Publications by Year
in descending order

51	419	758635 12	940134 16
papers	citations	h-index	g-index

51	51	51	371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Facile Synthesis of Noble-Metal-Free Catalyst Based on Nitrogen Doped Graphene Oxide for Oxygen Reduction Reaction. Materials, 2022, 15, 821.	1.3	14
2	Bipolar Electrochemical Exfoliation of Graphite for Synthesizing Electrocatalysts of Oxygen Reduction. Russian Journal of Electrochemistry, 2022, 58, 88-92.	0.3	2
3	Compacts of Boron-Doped Synthetic Diamond: Acceleration of Cathodic Reactions by Plasma-Assisted and Electrochemical Treatment of the Electrodes. Russian Journal of Electrochemistry, 2022, 58, 520-527.	0.3	2
4	Reduced Graphene Oxide Aerogel inside Melamine Sponge as an Electrocatalyst for the Oxygen Reduction Reaction. Materials, 2021, 14, 322.	1.3	5
5	Effect of Plasma-Assisted Electrochemical Treatment of Boron-Doped Diamond on the Kinetic Characteristics of Reversible Electrode Reactions. Russian Journal of Electrochemistry, 2021, 57, 563-566.	0.3	0
6	Nitrogen-enriched carbon powder prepared by ball-milling of graphene oxide with melamine: an efficient electrocatalyst for oxygen reduction reaction. Mendeleev Communications, 2021, 31, 529-531.	0.6	5
7	Effect of plasma-assisted electrochemical treatment of the boron-doped synthetic diamond compact electrodes on the oxygen electroreduction kinetics. Electrochimica Acta, 2021, 390, 138843.	2.6	2
8	The Bipolar Mode of Oneâ€Step Plasma Electrochemical Synthesis of Few Layer Graphene Structures Decorated with Transition Metal Oxides. ChemistrySelect, 2021, 6, 13642-13646.	0.7	0
9	Effect of graphene surface functionalization on the oxygen reduction reaction in alkaline media. Mendeleev Communications, 2020, 30, 472-473.	0.6	5
10	One-step plasma electrochemical synthesis and oxygen electrocatalysis of nanocomposite of few-layer graphene structures with cobalt oxides. Materials Today Energy, 2020, 17, 100459.	2.5	8
11	One-Stage Plasma-Assisted Electrochemical Synthesis of Cobalt-Containing Catalysts for Oxygen Reduction. Russian Journal of Electrochemistry, 2020, 56, 418-421.	0.3	1
12	Bipolar Method of Plasma Electrochemical Synthesis of Carbon Nanostructures Decorated with MnOx. High Energy Chemistry, 2020, 54, 227-232.	0.2	5
13	New antitumor hybrid materials based on PtIV organic complex and polymer nanoparticles consisting of N-vinylpyrrolidone and (di)methacrylates. Mendeleev Communications, 2020, 30, 22-24.	0.6	17
14	Oxygen reduction reaction at few-layer graphene structures obtained via plasma-assisted electrochemical exfoliation of graphite. Journal of Electroanalytical Chemistry, 2019, 851, 113440.	1.9	19
15	Effect of Plasma-Assisted Electrochemical Treatment of Glassy Carbon Electrode on the Reversible and Irreversible Electrode Reactions. Russian Journal of Electrochemistry, 2019, 55, 663-671.	0.3	4
16	Structure and catalytic properties of novel copper isatin Schiff base complexes. New Journal of Chemistry, 2019, 43, 188-198.	1.4	17
17	Electrical Conductivity of Films Formed by Few-Layer Graphene Structures Obtained by Plasma-Assisted Electrochemical Exfoliation of Graphite. International Journal of Electrochemistry, 2019, 2019, 1-6.	2.4	3
18	Plasma Electrochemical Synthesis of Few-Layer Graphene Structures for Modification of Epoxy Binder. High Energy Chemistry, 2019, 53, 254-260.	0.2	6

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19	Production of few-layer graphene structures in different modes of electrochemical exfoliation of graphite by voltage pulses. Instrumentation Science and Technology, 2019, 47, 535-544.	0.9	12
20	Redox reactions of cationic nitrosyl iron complexes with thiourea and its aliphatic derivatives: The experiment and DFT investigation. Journal of Molecular Structure, 2019, 1181, 253-260.	1.8	9
21	Electrochemical noise of a hydrogen-air polymer electrolyte fuel cell operating at different loads. Journal of Solid State Electrochemistry, 2018, 22, 1839-1849.	1.2	30
22	Comparative Study of Graphite and the Products of Its Electrochemical Exfoliation. Russian Journal of Electrochemistry, 2018, 54, 825-834.	0.3	10
23	Detrending and Other Features of Data Processing in the Measurements of Electrochemical Noise. Russian Journal of Electrochemistry, 2018, 54, 1117-1125.	0.3	10
24	Effect of impulse high voltage anodic and cathodic electrochemical treatment of a glassy carbon electrode on the oxygen reduction reaction in alkaline media. Electrochemistry Communications, 2018, 96, 57-60.	2.3	14
25	Plasma-Assisted Electrochemical Exfoliation of Graphite in the Pulsed Mode. High Energy Chemistry, 2018, 52, 272-273.	0.2	18
26	Properties of a granulated nitrogen-doped graphene oxide aerogel. Journal of Non-Crystalline Solids, 2018, 498, 236-243.	1.5	13
27	Electrical Conductivity of Films Formed by Few-Layer Graphene Structures. Russian Journal of Applied Chemistry, 2018, 91, 388-391.	0.1	2
28	Oxygen reduction reaction on covalently and noncovalently modified carbon nanowalls. Materials Protection, 2018, 59, 514-518.	0.1	0
29	Surface segregation of bismuth atoms in Ag-Bi alloys (based on results obtained by traditional) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Electroanalytical Chemistry, 2017, 785, 109-116.	1.9	7
30	Electron transfer kinetics of the ferrous/ferric redox system on the platinum deposits on gold. Journal of Electroanalytical Chemistry, 2017, 784, 140-144.	1.9	5
31	Redox reactions of binuclear tetranitrosyl iron complexes with bridging N-C-S ligands. Inorganica Chimica Acta, 2016, 449, 61-68.	1.2	3
32	EDL structure and peculiarities of ferricyanide cyclic voltammetry for silver deposits on gold. Electrochemistry Communications, 2015, 57, 35-38.	2.3	10
33	Electrochemical modification of electrodes based on highly oriented carbon nanowalls. Russian Journal of Electrochemistry, 2015, 51, 963-975.	0.3	9
34	Quantum chemical modeling of the effect of the nature of a Î¼-SCN-type ligand on the redox properties of iron nitrosyl complexes. Russian Chemical Bulletin, 2014, 63, 1265-1269.	0.4	0
35	Influence of aromatic ligand on the redox activity of neutral binuclear tetranitrosyl iron complexes [Fe2(Î¼-SR)2(NO)4]: experiments and quantum-chemical modeling. New Journal of Chemistry, 2014, 38, 292-301.	1.4	19
36	Synthesis, structure, NO-donor and redox activity of bis-(2-methylfuranethiolate)tetranitrosyl diiron. Journal of Molecular Structure, 2014, 1075, 159-165.	1.8	8

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37	Surface segregation of silver atoms on Auâ€“Ag alloys according to data of laser-heating induced temperature potential shifts, XPS and conventional electrochemical methods. Journal of Electroanalytical Chemistry, 2013, 704, 175-182.	1.9	18
38	Comparison of pure and hybrid DFT functionals for geometry optimization and calculation of redox potentials for iron nitrosyl complexes with â€œÎ¼-SCNâ€•bridging ligands. Theoretical Chemistry Accounts, 2013, 132, 1.	0.5	14
39	Redox properties of [Fe2(SC6H5)2(NO)4]: an experimental study and quantum chemical modeling. Russian Chemical Bulletin, 2012, 61, 1860-1866.	0.4	4
40	Primary oxidation of Au electrode in weakly acidic solutions of surface-inactive electrolyte as evidenced by the potential shifts induced by laser heating and traditional electrochemical methods. Electrochimica Acta, 2012, 61, 140-147.	2.6	6
41	The elementary stages of electroreduction of alkyl(hetero)arylsulfones in water-organic media. Russian Journal of Electrochemistry, 2011, 47, 1129-1133.	0.3	2
42	Time effects at the adamantanol-1 adsorption on silver electrode. Electrochimica Acta, 2009, 54, 6499-6507.	2.6	4
43	Effect of oxygen adsorption on the laser-induced thermal jump of potential on a smooth polycrystalline platinum electrode. Mendeleev Communications, 2007, 17, 258-260.	0.6	3
44	Effect of ionic composition of solutions on the methanol reaction with adsorbed oxygen on smooth polycrystalline platinum electrodes: Transients of the open-circuit potential. Russian Journal of Electrochemistry, 2007, 43, 782-786.	0.3	0
45	Special features of methanol interaction with adsorbed oxygen at platinized platinum electrode: Transients of the open-circuit potential. Russian Journal of Electrochemistry, 2007, 43, 1268-1272.	0.3	6
46	Specific features of interaction between formic acid and oxygen adsorbed on smooth polycrystalline platinum: Transients of the open-circuit potential. Russian Journal of Electrochemistry, 2006, 42, 658-664.	0.3	12
47	Kinetics and mechanism of interaction between methanol and adsorbed oxygen on a smooth polycrystalline platinum electrode: Transients of the open-circuit potential. Russian Journal of Electrochemistry, 2006, 42, 1061-1066.	0.3	12
48	Interaction of HCO-substances with adsorbed oxygen on platinum electrodes: Open-circuit transient reactions of HCOOH and CO. Electrochimica Acta, 2005, 50, 4807-4813.	2.6	18
49	Transients of the Open-Circuit Potential Observed during the Interaction of Formic Acid with Preliminarily Adsorbed Oxygen on a Platinized Platinum Electrode. Russian Journal of Electrochemistry, 2005, 41, 832-837.	0.3	11
50	Effect of the Pt/Pt Electrode Roughness on the Interaction of CO with Oads. Russian Journal of Electrochemistry, 2004, 40, 563-568.	0.3	6
51	Title is missing!. Russian Journal of Electrochemistry, 2002, 38, 1292-1298.	0.3	9