Dmitry Konev

List of Publications by Year
in descending order

59 papers	571 citations	623734 14 h-index	677142 22 g-index
61 all docs	61 docs citations	61 times ranked	335 citing authors

#	Article	IF	Citations
1	Fluoropolymer impregnated graphite foil as a bipolar plates of vanadium flow battery. International Journal of Energy Research, 2022, 46, 10123-10132.	4.5	5
2	Synthesis and characterization of heteroleptic rare earth double-decker complexes involving tetradiazepinoporphyrazine and phthalocyanine macrocycles. Dalton Transactions, 2021, 50, 6245-6255.	3.3	6
3	Methodology for Determination of the Key Parameters of Conjugated Polymer Electrodeposition, Based on a Combination of Spectroelectrochemistry and Electrochemical Quartz Crystal Microbalance. Russian Journal of Electrochemistry, 2021, 57, 264-272.	0.9	0
4	Twoâ€Membrane Acidâ€Base Flow Battery with Hydrogen Electrodes for Neutralizationâ€toâ€Electrical Energy Conversion. ChemSusChem, 2021, 14, 4583-4592.	6.8	4
5	Comments on the shape of voltammetric plots of reversible stoichiometric reactions for linear potential scan. Journal of Solid State Electrochemistry, 2021, 25, 2903.	2.5	0
6	Mesoporous Networks of N-Vinylpyrrolidone with (di)Methacrylates as Precursors of Ecological Molecular Imprinted Polymers. Materials, 2021, 14, 6757.	2.9	4
7	Promising Material Based on Paraffinâ€Impregnated Graphite Foil with Increased Electrochemical Stability for Bipolar Plates of Vanadium Redox Flow Battery. ChemistrySelect, 2021, 6, 13342-13349.	1.5	2
8	Test Cell for Membrane Electrode Assembly of the Vanadium Redox Flow Battery. Doklady Physical Chemistry, 2020, 491, 19-23.	0.9	5
9	Electrolyte Flow Field Variation: A Cell for Testing and Optimization of Membrane Electrode Assembly for Vanadium Redox Flow Batteries. ChemPlusChem, 2020, 85, 1919-1927.	2.8	18
10	Electrochemical quartz crystal microbalance study of magnesium porphine electropolymerization process. Journal of Solid State Electrochemistry, 2020, 24, 3191-3206.	2.5	4
11	Preparation and characterization of stable water soluble hybrid nanostructures of hydrophobic compounds by encapsulation into nanoparticles of amphiphilic N-vinylpyrrolidone copolymers of new generation. IOP Conference Series: Materials Science and Engineering, 2020, 848, 012043.	0.6	2
12	Datasets of EQCM-controlled deposition and cycling of thin polypyrrole films in acetonitrile electrolyte solution. Data in Brief, 2020, 29, 105360.	1.0	1
13	Hydrogen-bromate flow battery: can one reach both high bromate utilization and specific power?. Journal of Solid State Electrochemistry, 2019, 23, 3075-3088.	2.5	20
14	Polymer nanoparticles of N-vinylpyrrolidone loaded with an organic aminonitroxyl platinum (iv) complex. Characterization and investigation of their in vitro cytotoxicity. Russian Chemical Bulletin, 2019, 68, 1769-1779.	1.5	17
15	Electrochemically driven evolution of Br-containing aqueous solution composition. Journal of Electroanalytical Chemistry, 2019, 836, 125-133.	3.8	16
16	Electroreduction of the Bromate Anion on a Microelectrode in Excess Acid: Solution of the Inverse Kinetic Problem. Doklady Chemistry, 2019, 484, 12-15.	0.9	0
17	Oxygen Electroreduction on the Anthraquinone-Modified Thin-Film Carbonâ€"Polymer Composite in Alkaline Solution. Russian Journal of Electrochemistry, 2019, 55, 1284-1291.	0.9	1
18	Electrochemical synthesis of polypyrrole in powder form. Journal of Solid State Electrochemistry, 2019, 23, 251-258.	2.5	13

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19	ELECTRODYNAMIC MODEL OF OXYGEN REDOX SORPTION BY METAL-CONTAINING NANOCOMPOSITES. Nanotechnologies in Russia, 2019, 14, 523-530.	0.7	1
20	Electrocatalytic properties of manganese and cobalt polyporphine films toward oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2018, 816, 83-91.	3.8	12
21	Preparation and Properties of Hybrid Nanostructures of Zinc Tetraphenylporphyrinate and an Amphiphilic Copolymer of N-Vinylpyrrolidone in a Neutral Aqueous Buffer Solution. Russian Journal of Physical Chemistry A, 2018, 92, 329-333.	0.6	12
22	A Hydrogenâ€"Bromate Flow Battery for Airâ€Deficient Environments. Energy Technology, 2018, 6, 242-245.	3.8	26
23	Efficiency of Pyrrole Electropolymerization under Various Conditions. Russian Journal of Electrochemistry, 2018, 54, 1243-1251.	0.9	7
24	Evolution of Anolyte Composition in the Oxidative Electrolysis of Sodium Bromide in a Sulfuric Acid Medium. Russian Journal of Electrochemistry, 2018, 54, 1233-1242.	0.9	6
25	Cobalt Oxide Materials for Oxygen Evolution Catalysis via Singleâ€Source Precursor Chemistry. Chemistry - A European Journal, 2018, 24, 13890-13896.	3.3	7
26	Electropolymerization of magnesium 5,15-di(n-methoxyphenyl)porphine. Russian Journal of Electrochemistry, 2016, 52, 1150-1158.	0.9	4
27	Electrochemical synthesis of cobalt polyporphine films. Doklady Physical Chemistry, 2016, 471, 181-184.	0.9	1
28	Preparation of cobalt polyporphine and its catalytic properties in oxygen electroreduction. Russian Journal of Electrochemistry, 2016, 52, 778-787.	0.9	7
29	Electrochemical route to Co(II) polyporphine. Journal of Solid State Electrochemistry, 2016, 20, 3189-3197.	2.5	7
30	Efficient synthesis of a new electroactive polymer of Co(II) porphine by in-situ replacement of Mg(II) inside Mg(II) polyporphine film. Electrochimica Acta, 2016, 204, 276-286.	5.2	14
31	Spectroelectrochemical determination of the redox equivalent of magnesium porphine in the course of its electrooxidation. Doklady Physical Chemistry, 2016, 466, 15-18.	0.9	1
32	Energy cycle based on a high specific energy aqueous flow battery and its potential use for fully electric vehicles and for direct solar-to-chemical energy conversion. Journal of Solid State Electrochemistry, 2015, 19, 2711-2722.	2.5	58
33	Stability of Prussian Blueâ€"polypyrrole (PB/PPy) composite films synthesized via one-step redox-reaction procedure. Journal of Solid State Electrochemistry, 2015, 19, 2701-2709.	2.5	16
34	Electroreduction of halogen oxoanions via autocatalytic redox mediation by halide anions: novel ECâ€• mechanism. Theory for stationary 1D regime. Electrochimica Acta, 2015, 173, 779-795.	5.2	44
35	Percolation effect in dynamics of oxygen redox sorption with metal-ion exchanger nanocomposites. Nanotechnologies in Russia, 2015, 10, 757-762.	0.7	0
36	Electropolymerization of non-substituted Mg(II) porphine: Effects of proton acceptor addition. Journal of Electroanalytical Chemistry, 2015, 737, 235-242.	3.8	20

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37	Synthesis of new electroactive polymers by ion-exchange replacement of Mg(II) by 2H+ or Zn(II) cations inside Mg(II) polyporphine film, with their subsequent electrochemical transformation to condensed-structure materials. Electrochimica Acta, 2014, 122, 3-10.	5.2	21
38	Cooperative interactions of metal nanoparticles in the ion-exchange matrix with oxygen dissolved in water. Russian Journal of Physical Chemistry A, 2014, 88, 1000-1007.	0.6	8
39	Synthesis of new polyporphines by replacing central ion in magnesium polyporphine. Russian Journal of Electrochemistry, 2013, 49, 753-758.	0.9	6
40	One-step and one-pot method for synthesis of hybrid composite palladium-polypyrrole-carbon (Pd/PPy/C) nanomaterials. Doklady Physical Chemistry, 2013, 449, 63-65.	0.9	5
41	Atomic force microscopy study of conducting polymer films near electrode's edge or grown on microband electrode. Electrochimica Acta, 2013, 110, 452-458.	5.2	7
42	Ion exchange and redox reactions in metal-ion exchanger nanocomposites. Russian Journal of Physical Chemistry A, 2012, 86, 1128-1133.	0.6	0
43	Primary and secondary distributions after a small-amplitude potential step at disk electrode coated with conducting film. Electrochimica Acta, 2011, 56, 9105-9112.	5.2	6
44	Kinetics of oxygen reduction by nanocomposite silver-ion exchanger. Russian Journal of Physical Chemistry A, 2011, 85, 1196-1201.	0.6	2
45	Regard for particle size distribution in a model of the macrokinetics of the reduction of oxygen dissolved in water by a metal-ion-exchanger nanocomposite. Russian Journal of Physical Chemistry A, 2011, 85, 1616-1621.	0.6	1
46	Electroactive polymeric material with condensed structure on the basis of magnesium(II) polyporphine. Electrochimica Acta, 2011, 56, 3436-3442.	5.2	36
47	Reductive sorption of molecular oxygen from water on silver-KU-23 sulfo-cation exchanger nanocomposites in different ionic forms. Russian Journal of Physical Chemistry A, 2010, 84, 994-999.	0.6	2
48	Chemical activity of silver nanoparticles in anion-exchange matrices with respect to molecular oxygen dissolved in water. Russian Journal of Physical Chemistry A, 2010, 84, 1000-1004.	0.6	1
49	Magnesium(II) polyporphine: The first electron-conducting polymer with directly linked unsubstituted porphyrin units obtained by electrooxidation at a very low potential. Electrochimica Acta, 2010, 55, 6703-6714.	5.2	46
50	The dynamics of reductive sorption of oxygen by a granular bed of electron-ion exchangers with different copper dispersities. Russian Journal of Physical Chemistry A, 2009, 83, 826-831.	0.6	1
51	Electrochemical and Spectral Properties of Ferrocene (Fc) in Ionic Liquid: 1-Butyl-3-methylimidazolium Triflimide, [BMIM][NTf₂]. Concentration Effects. Journal of Physical Chemistry B, 2009, 113, 1085-1099.	2.6	42
52	The inverse problem of the kinetics of redox sorption taking into account the size of ultradisperse metal particles in an electron-ion exchanger. Russian Journal of Physical Chemistry A, 2008, 82, 1363-1367.	0.6	4
53	Percolation effects with copper electrodeposition in ion-exchange material. Russian Journal of Electrochemistry, 2008, 44, 794-801.	0.9	1
54	Metal-ion-exchanger nanocomposites in redox sorption processes. Doklady Physical Chemistry, 2008, 419, 80-83.	0.9	5

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55	The Diffusion Coefficient of Molecular Oxygen in Macroporous Sulfocationite. Russian Journal of Physical Chemistry A, 2008, 82, 452-458.	0.6	3
56	A mathematical description of redox sorption of molecular oxygen taking into account the degree of metal dispersity in an electron-ion exchanger. Russian Journal of Physical Chemistry A, 2007, 81, 259-264.	0.6	2
57	Kinetics of the reduction of molecular oxygen from water by ultrafine copper in an ion-exchange matrix. Russian Journal of Physical Chemistry A, 2006, 80, 1309-1314.	0.6	2
58	Copper electrodeposition into ion-exchange materials. Russian Journal of Electrochemistry, 2006, 42, 649-657.	0.9	7
59	Oxygen electroreduction on a granulated layer of a copper-containing electron-ion exchanger. Russian Journal of Electrochemistry, 2006, 42, 1255-1261.	0.9	2