Galina A Tsirlina

List of Publications by Year in Descending Order

101 papers	1,753 citations	24 h-index	37 g-index
111 ext. papers	1,953 ext. citations	4 avg, IF	4.49 L-index

#	Paper	IF	Citations
101	Carbon nanotube cloth as a promising electrode material for flexible aqueous supercapacitors. *Journal of Applied Electrochemistry*, **2022**, 52, 487-498	2.6	1
100	Inhibition and self-inhibition phenomena in mixed solutions of Anderson type polyoxometalates. *Journal of Electroanalytical Chemistry*, **2022**, 905, 115952	4.1	
99	Cathodic deposition of manganese oxide for fabrication of hybrid recharging materials based on flexible CNT cloth. *Electrochimica Acta*, **2022**, 412, 140131	6.7	0
98	Mn2O3 oxide with bixbyite structure for the electrochemical oxygen reduction reaction in alkaline media: Highly active if properly manipulated. *Electrochimica Acta*, **2021**, 367, 137378	6.7	7
97	Contributions of A.N. Frumkin and the Frumkin School to power sources research. *Journal of Solid State Electrochemistry*, **2021**, 25, 373-385	2.6	
96	Interfacial recharging behavior of mixed Co, Mn-based perovskite oxides. *Electrochimica Acta*, **2021**, 139257	6.7	1
95	Against electrochemical mainstreams. *Journal of Solid State Electrochemistry*, **2020**, 24, 2187-2188	2.6	3
94	Bismuth nanowires: electrochemical fabrication, structural features, and transport properties. *Physical Chemistry Chemical Physics*, **2020**, 22, 14953-14964	3.6	5
93	Cathodic deposition of birnessite from alkaline permanganate solutions: Tools to control the current efficiency, morphology and adhesion. *Journal of Electroanalytical Chemistry*, **2020**, 874, 114521	4.1	1
92	Evolution of electrochemical education. *Journal of Solid State Electrochemistry*, **2020**, 24, 2679-2684	2.6	0
91	Conductive additives for oxide-based OER catalysts: A comparative RRDE study of carbon and silver in alkaline medium. *Electrochimica Acta*, **2019**, 319, 227-236	6.7	7
90	Carbon materials as additives to the OER catalysts: RRDE study of carbon corrosion at high anodic potentials. *Electrochimica Acta*, **2019**, 321, 134657	6.7	21
89	Rotating ring-disk electrode as a quantitative tool for the investigation of the oxygen evolution reaction. *Electrochimica Acta*, **2018**, 286, 304-312	6.7	15
88	Solvent effect on electron transfer through alkanethiols. *Journal of Electroanalytical Chemistry*, **2018**, 819, 58-64	4.1	3
87	Nitrate electroreduction on Pt in metatungstate-containing solution. *Mendeleev Communications*, **2018**, 28, 254-256	1.9	2
86	ORR on Simple Manganese Oxides: Molecular-Level Factors Determining Reaction Mechanisms and Electrocatalytic Activity. *Journal of the Electrochemical Society*, **2018**, 165, J3199-J3208	3.9	11
85	Carbon nanotube cloth for electrochemical charge storage in aqueous media. *Journal of Electroanalytical Chemistry*, **2018**, 827, 58-63	4.1	5

84	(Invited) Fabrication and Operation under the Same Conditions: Oxygen Reduction on Electrodeposited Manganese Oxide. *ECS Transactions*, **2018**, 85, 137-145	1	1
83	Further insights into the role of carbon in manganese oxide/carbon composites in the oxygen reduction reaction in alkaline media. *Electrochimica Acta*, **2017**, 246, 643-653	6.7	32
82	Electrochemical growth of nanowires in anodic alumina templates: the role of pore branching. *Electrochimica Acta*, **2017**, 226, 60-68	6.7	18
81	The role of supporting electrolyte in heterogeneous electron transfer. *Journal of Solid State Electrochemistry*, **2017**, 21, 1833-1845	2.6	6
80	Study of Hydrogen Peroxide Reactions on Manganese Oxides as a Tool To Decode the Oxygen Reduction Reaction Mechanism. *ChemElectroChem*, **2016**, 3, 1667-1677	4.3	28
79	Rationalizing the Influence of the Mn(IV)/Mn(III) Red-Ox Transition on the Electrocatalytic Activity of Manganese Oxides in the Oxygen Reduction Reaction. *Electrochimica Acta*, **2016**, 187, 161-172	6.7	75
78	Electrodeposited non-stoichiometric tungstic acid for electrochromic applications: film growth modes, crystal structure, redox behavior and stability. *Applied Surface Science*, **2016**, 388, 786-793	6.7	8
77	Degradation of High Temperature Polymer Electrolyte Fuel Cell Cathode Material as Affected by Polybenzimidazole. *Journal of the Electrochemical Society*, **2015**, 162, F587-F595	3.9	8
76	Isopolymolybdate adsorption as related to inhibition and self-inhibition of electrode processes. *Journal of Electroanalytical Chemistry*, **2015**, 756, 131-139	4.1	2
75	The effect of microstructure and non-metallic inclusions on corrosion behavior of low carbon steel in chloride containing solutions. *Corrosion Science*, **2014**, 80, 299-308	6.8	66
74	Potentiostatic electrodeposition of Pt on GC and on HOPG at low loadings: Analysis of the deposition transients and the structure of Pt deposits. *Electrochimica Acta*, **2014**, 150, 279-289	6.7	19
73	Long Distance Electron Transfer at the Metal/Alkanethiol/Ionic Liquid Interface. *Journal of Physical Chemistry C*, **2014**, 118, 15970-15977	3.8	18
72	Electrocatalytic oxygen reduction reaction on perovskite oxides: series versus direct pathway. *ChemPhysChem*, **2014**, 15, 2108-20	3.2	67
71	Ferrocene/Ferrocenium Redox Couple at Au(111)/Ionic Liquid and Au(111)/Acetonitrile Interfaces: A Molecular-Level View at the Elementary Act. *Journal of Physical Chemistry C*, **2014**, 118, 6151-6164	3.8	47
70	How to combine electrochromic and electrocatalytic applications with the low degradation rate of electrodeposited tungsten oxides. *Electrochimica Acta*, **2013**, 99, 102-107	6.7	6
69	Half-wave potential as affected by supporting electrolyte nature: Interplay of adsorption and ionic association for electroreduction of V(V)-mixed addenda Keggin tungstophosphate. *Electrochimica Acta*, **2013**, 111, 292-298	6.7	2
68	Liquid Junction Potentials **2013**, 33-48		
67	Subsequent redox transitions as a tool to understand solvation in ionic liquids. *Electrochimica Acta*, **2013**, 103, 243-251	6.7	8

66	A spectroscopic and computational study of Al(III) complexes in cryolite melts: Effect of cation nature. *Chemical Physics*, **2013**, 412, 22-29	2.3	19
65	Electrochemistry of MoO3K2MoO4 melts: a chance to control the nature of reduced molybdenum oxides. *Journal of Solid State Electrochemistry*, **2012**, 16, 3515-3528	2.6	1
64	Isopolytungstate Adsorption on Platinum: Manifestations of Underpotential Deposition. *Electrocatalysis*, **2012**, 3, 230-237	2.7	4
63	Specific Molecular Features of Potassium-Containing Cryolite Melts **2012**, 787-791		
62	Quinones electrochemistry in room-temperature ionic liquids. *Journal of Physical Chemistry B*, **2011**, 115, 668-77	3.4	46
61	Structural and electrocatalytic features of Pt/C catalysts fabricated in supercritical carbon dioxide. *Journal of Solid State Electrochemistry*, **2011**, 15, 623-633	2.6	21
60	Tuning the microstructure and functional properties of metal nanowire arrays via deposition potential. *Electrochimica Acta*, **2011**, 56, 2378-2384	6.7	56
59	Electrodeposited oxotungstate films: Towards the molecular nature of recharging processes. *Electrochimica Acta*, **2011**, 56, 3530-3536	6.7	11
58	2 Surface Thermodynamics of Metal/Solution Interface: the Untapped Resources. *Modern Aspects of Electrochemistry*, **2011**, 107-158		2
57	Controlled growth of metallic inverse opals by electrodeposition. *Physical Chemistry Chemical Physics*, **2010**, 12, 15414-22	3.6	33
56	Dynamic solvent effects in electrochemical kinetics: indications for a switch of the relevant solvent mode. *Journal of Physical Chemistry B*, **2010**, 114, 311-20	3.4	14
55	Electropolymerization of pyrrole in acetonitrile as affected by the nature of substitute and deposition potential. *Journal of Solid State Electrochemistry*, **2010**, 14, 2039-2048	2.6	10
54	A spectroscopic and computational study of Al(III) complexes in sodium cryolite melts: ionic composition in a wide range of cryolite ratios. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2010**, 75, 1244-52	4.4	26
53	Ionic association of Ce(IV)-decatungstate in the context of heteroatom reduction. *Electrochimica Acta*, **2010**, 55, 6064-6072	6.7	7
52	Reliable rate constant determination for heterogeneous electron transfer: CrEDTA *Mendeleev Communications*, **2009**, 19, 314-316	1.9	
51	Toward the Reactivity Prediction: Outersphere Electroreduction of Transition-Metal Ammine Complexes. *Journal of Physical Chemistry C*, **2009**, 113, 2881-2890	3.8	6
50	Interplay between solvent effects of different nature in interfacial bond breaking electron transfer. *Journal of Physical Chemistry B*, **2009**, 113, 10277-84	3.4	6
49	Co-adsorbtion of Cu and Keggin type polytungstates on polycrystalline Pt: interplay of atomic and molecular UPD. *Faraday Discussions*, **2008**, 140, 245-67; discussion 297-317	3.6	6

48	Binuclear Robson type Ni(ii) complex as a reactant supplementing our knowledge of the orientation effects in electrochemical kinetics. *Physical Chemistry Chemical Physics*, **2008**, 10, 2390-8	3.6	4
47	Medium and interfacial effects in the multistep reduction of binuclear complexes with robson-type ligand. *Inorganic Chemistry*, **2008**, 47, 6659-73	5.1	9
46	Electroreduction of peroxodisulfate on mercury in mixed water–carbohydrate media: The interplay of solvent effects and concentration-dependent structure of reaction layer. *Chemical Physics*, **2008**, 352, 345-352	2.3	5
45	Pd electrodeposited from membrane-separated thin layer cell. *Journal of Solid State Electrochemistry*, **2008**, 12, 1085-1091	2.6	5
44	On the influence of the metal loading on the structure of carbon-supported PtRu catalysts and their electrocatalytic activities in CO and methanol electrooxidation. *Physical Chemistry Chemical Physics*, **2007**, 9, 5476-89	3.6	81
43	Life of the Tafel equation: Current understanding and prospects for the second century. *Electrochimica Acta*, **2007**, 52, 3493-3504	6.7	59
42	Electrochemistry and catalytic behavior of immobilized binuclear complexes of copper(II) and nickel(II) with Robson type ligand. *Journal of Solid State Electrochemistry*, **2007**, 11, 981-992	2.6	6
41	Misleading aspects of the viscosity effect on the heterogeneous electron transfer reactions. *Chemical Physics*, **2006**, 326, 123-137	2.3	9
40	Excited state behaviors of the dodecamolybdocerate (IV) anion: (NH4)6H2(CeMo12O42).9H2O. *Journal of Physical Chemistry B*, **2006**, 110, 15633-9	3.4	9
39	Electrodeposited platinum revisited: Tuning nanostructure via the deposition potential. *Electrochimica Acta*, **2006**, 51, 4477-4488	6.7	95
38	Corrected Marcus plots. *Journal of Solid State Electrochemistry*, **2006**, 10, 157-167	2.6	6
37	Role of charge distribution in the reactant and product in double layer effects: construction of corrected Tafel plots. *Journal of Physical Chemistry A*, **2005**, 109, 1348-56	2.8	13
36	Exploring the molecular features of cationic catalysis phenomenon: Peroxodisulfate reduction at a mercury electrode. *Journal of Electroanalytical Chemistry*, **2005**, 582, 118-129	4.1	15
35	Reticulated vitreous carbon–polyaniline–palladium composite electrodes. *Electrochimica Acta*, **2005**, 50, 1885-1893	6.7	34
34	Raman spectroscopic evidence of the bronze-like recharging behavior for conducting films deposited from isopolytungstates. *Electrochimica Acta*, **2005**, 50, 1693-1702	6.7	16
33	Why does the hydrolysis of In(III) aquacomplexes make them electrochemically more active?. *Electrochimica Acta*, **2005**, 50, 4888-4896	6.7	19
32	Network electrocatalytic films of conducting polymer-linked polyoxometallate-stabilized platinum nanoparticles. *Electrochimica Acta*, **2005**, 50, 5155-5162	6.7	46
31	Self-inhibition phenomena in the electroreduction of hexamolybdocobaltate(III): A combined experimental and computational study. *Chemical Physics*, **2005**, 319, 200-209	2.3	14

30	Macrocyclic binuclear copper(II) and nickel(II) complexes: the key role of central ions in hydrogen peroxide electrocatalysis. *Mendeleev Communications*, **2005**, 15, 93-95	1.9	3
29	Aqueous electrochemistry of binuclear copper complex with Robson-type ligand: dissolved versus surface-immobilized reactant. *Journal of Solid State Electrochemistry*, **2005**, 9, 581-589	2.6	6
28	Hard-to-detect CoIII/CoII reduction in a hexacyanocobaltate. *Mendeleev Communications*, **2004**, 14, 113-115	1.9	7
27	Mutual indirect probing of platinized platinum/tungstate nanostructural features. *Journal of Solid State Electrochemistry*, **2004**, 8, 778-785	2.6	15
26	Adlayers of Keggin Type Polytungstate Anions on Platinum: Negligible Electrochemical Signatures and Manifestations of Molecular UPD *Journal of Physical Chemistry B*, **2004**, 108, 17096-17105	3.4	11
25	Formation of Rechargeable Films on Platinum in Sulfuric Acid Solutions of Isopolytungstates. *Russian Journal of Electrochemistry*, **2003**, 39, 716-726	1.2	23
24	Outer-sphere electron transfer in aqueous solutions of lithium hexacyanoferrates. *Russian Chemical Bulletin*, **2003**, 52, 2393-2396	1.7	2
23	Activationless Reduction of the Hexacyanoferrate Anion on a Mercury Electrode. *Russian Journal of Electrochemistry*, **2003**, 39, 97-108	1.2	12
22	Platinization assisted by Keggin-type heteropolytungstates. *Electrochimica Acta*, **2003**, 48, 3797-3804	6.7	20
21	Contemporary understanding of the peroxodisulfate reduction at a mercury electrode. *Journal of Electroanalytical Chemistry*, **2003**, 552, 261-278	4.1	31
20	Molecular Description of the Persulfate Ion Reduction on a Mercury Electrode. *Russian Journal of Electrochemistry*, **2002**, 38, 720-731	1.2	21
19	Frumkin Correction: Microscopic View. *Russian Journal of Electrochemistry*, **2002**, 38, 132-140	1.2	24
18	Inorganic barrier layers: electron transfer on mercury modified by tungstate. *Mendeleev Communications*, **2002**, 12, 126-127	1.9	11
17	Electrode Potentials **2002**,		2
16	Isotope effects in PdH(D) as an instrument for diagnosing bulk defects. *Journal of Solid State Electrochemistry*, **2001**, 5, 212-220	2.6	8
15	Comparison of equilibrium electrochemical behavior of PdHx and LixMn2O4 intercalation electrodes in terms of sorption isotherms. *Electrochimica Acta*, **2001**, 46, 4141-4149	6.7	9
14	Inhomogeneous films of conducting polymers STM and electrochemical characterisation. *Electrochimica Acta*, **2001**, 46, 4043-4050	6.7	13
13	The role of charge distribution in the reactant and product in double layer effects for simple heterogeneous redox reactions. *Journal of Electroanalytical Chemistry*, **2001**, 498, 93-104	4.1	32

12	Electroreduction of [Fe(CN)6]3− on a Mercury Electrode: Substantiating Activationless Character of the Process at High Overvoltages. *Russian Journal of Electrochemistry*, **2001**, 37, 15-25	1.2	6
11	Size effects in electrochemistry. *Russian Chemical Reviews*, **2001**, 70, 285-298	6.8	45
10	Effect of supporting electrolytes on the positions of outer-sphere charge-transfer bands in electronic absorption spectra. *Mendeleev Communications*, **2001**, 11, 88-89	1.9	3
9	Quantum chemical modelling of the heterogeneous electron transfer: from qualitative analysis to a polarization curve. *Electrochimica Acta*, **2000**, 45, 3521-3536	6.7	39
8	Nature of the current pit in concentrated solutions: Part I. Microscopic modelling of the interaction of Pt(II) aquachlorocomplexes with a mercury electrode. *Journal of Electroanalytical Chemistry*, **2000**, 491, 126-138	4.1	16
7	Size effects on the electrochemical oxidation of oxalic acid on nanocrystalline platinum. *Journal of Electroanalytical Chemistry*, **2000**, 480, 112-119	4.1	31
6	Outer-sphere anion–anion charge transfer in a solid hexacyanoferrate. *Mendeleev Communications*, **2000**, 10, 86-87	1.9	1
5	Electrochemical characterisation of Pd modified ceramic|carbon electrodes: partially flooded versus wetted channel hydrophobic gas electrodes. *Journal of Electroanalytical Chemistry*, **1999**, 466, 45-59	4.1	30
4	Activation Energy of Electron Transfer between a Metal Electrode and Reagents of Nonspherical Form and Complicated Charge Distribution. Cr(EDTA) Complexes *Journal of Physical Chemistry B*, **1998**, 102, 677-686	3.4	32
3	Electrochemistry of Oxide High-Temperature Superconductors. *Advances in Electrochemical Science and Engineering*, **1997**, 61-123		1
2	Electrocatalytic activity prediction for hydrogen electrode reaction: intuition, art, science. *Electrochimica Acta*, **1994**, 39, 1739-1747	6.7	87
1	Specific Molecular Features of Potassium-Containing Cryolite Melts787-791		