

Galina A Tsirlina

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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	Electrodeposited platinum revisited: Tuning nanostructure via the deposition potential. <i>Electrochimica Acta</i> , 2006 , 51, 4477-4488	6.7	95
100	Electrocatalytic activity prediction for hydrogen electrode reaction: intuition, art, science. <i>Electrochimica Acta</i> , 1994 , 39, 1739-1747	6.7	87
99	On the influence of the metal loading on the structure of carbon-supported PtRu catalysts and their electrocatalytic activities in CO and methanol electrooxidation. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 5476-89	3.6	81
98	Rationalizing the Influence of the Mn(IV)/Mn(III) Red-Ox Transition on the Electrocatalytic Activity of Manganese Oxides in the Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2016 , 187, 161-172	6.7	75
97	Electrocatalytic oxygen reduction reaction on perovskite oxides: series versus direct pathway. <i>ChemPhysChem</i> , 2014 , 15, 2108-20	3.2	67
96	The effect of microstructure and non-metallic inclusions on corrosion behavior of low carbon steel in chloride containing solutions. <i>Corrosion Science</i> , 2014 , 80, 299-308	6.8	66
95	Life of the Tafel equation: Current understanding and prospects for the second century. <i>Electrochimica Acta</i> , 2007 , 52, 3493-3504	6.7	59
94	Tuning the microstructure and functional properties of metal nanowire arrays via deposition potential. <i>Electrochimica Acta</i> , 2011 , 56, 2378-2384	6.7	56
93	Ferrocene/Ferrocenium Redox Couple at Au(111)/Ionic Liquid and Au(111)/Acetonitrile Interfaces: A Molecular-Level View at the Elementary Act. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6151-6164	3.8	47
92	Quinones electrochemistry in room-temperature ionic liquids. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 668-77	3.4	46
91	Network electrocatalytic films of conducting polymer-linked polyoxometallate-stabilized platinum nanoparticles. <i>Electrochimica Acta</i> , 2005 , 50, 5155-5162	6.7	46
90	Size effects in electrochemistry. <i>Russian Chemical Reviews</i> , 2001 , 70, 285-298	6.8	45
89	Quantum chemical modelling of the heterogeneous electron transfer: from qualitative analysis to a polarization curve. <i>Electrochimica Acta</i> , 2000 , 45, 3521-3536	6.7	39
88	Reticulated vitreous carbon/polyaniline/palladium composite electrodes. <i>Electrochimica Acta</i> , 2005 , 50, 1885-1893	6.7	34
87	Controlled growth of metallic inverse opals by electrodeposition. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15414-22	3.6	33
86	Further insights into the role of carbon in manganese oxide/carbon composites in the oxygen reduction reaction in alkaline media. <i>Electrochimica Acta</i> , 2017 , 246, 643-653	6.7	32
85	The role of charge distribution in the reactant and product in double layer effects for simple heterogeneous redox reactions. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 498, 93-104	4.1	32

84	Activation Energy of Electron Transfer between a Metal Electrode and Reagents of Nonspherical Form and Complicated Charge Distribution. Cr(EDTA) Complexes <i>Journal of Physical Chemistry B</i> , 1998 , 102, 677-686	3.4	32
83	Contemporary understanding of the peroxodisulfate reduction at a mercury electrode. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 552, 261-278	4.1	31
82	Size effects on the electrochemical oxidation of oxalic acid on nanocrystalline platinum. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 480, 112-119	4.1	31
81	Electrochemical characterisation of Pd modified ceramic carbon electrodes: partially flooded versus wetted channel hydrophobic gas electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 466, 45-59	4.1	30
80	Study of Hydrogen Peroxide Reactions on Manganese Oxides as a Tool To Decode the Oxygen Reduction Reaction Mechanism. <i>ChemElectroChem</i> , 2016 , 3, 1667-1677	4.3	28
79	A spectroscopic and computational study of Al(III) complexes in sodium cryolite melts: ionic composition in a wide range of cryolite ratios. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 75, 1244-52	4.4	26
78	Frumkin Correction: Microscopic View. <i>Russian Journal of Electrochemistry</i> , 2002 , 38, 132-140	1.2	24
77	Formation of Rechargeable Films on Platinum in Sulfuric Acid Solutions of Isopolytungstates. <i>Russian Journal of Electrochemistry</i> , 2003 , 39, 716-726	1.2	23
76	Carbon materials as additives to the OER catalysts: RRDE study of carbon corrosion at high anodic potentials. <i>Electrochimica Acta</i> , 2019 , 321, 134657	6.7	21
75	Structural and electrocatalytic features of Pt/C catalysts fabricated in supercritical carbon dioxide. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 623-633	2.6	21
74	Molecular Description of the Persulfate Ion Reduction on a Mercury Electrode. <i>Russian Journal of Electrochemistry</i> , 2002 , 38, 720-731	1.2	21
73	Platinization assisted by Keggin-type heteropolytungstates. <i>Electrochimica Acta</i> , 2003 , 48, 3797-3804	6.7	20
72	Potentiostatic electrodeposition of Pt on GC and on HOPG at low loadings: Analysis of the deposition transients and the structure of Pt deposits. <i>Electrochimica Acta</i> , 2014 , 150, 279-289	6.7	19
71	A spectroscopic and computational study of Al(III) complexes in cryolite melts: Effect of cation nature. <i>Chemical Physics</i> , 2013 , 412, 22-29	2.3	19
70	Why does the hydrolysis of In(III) aquacomplexes make them electrochemically more active?. <i>Electrochimica Acta</i> , 2005 , 50, 4888-4896	6.7	19
69	Electrochemical growth of nanowires in anodic alumina templates: the role of pore branching. <i>Electrochimica Acta</i> , 2017 , 226, 60-68	6.7	18
68	Long Distance Electron Transfer at the Metal/Alkanethiol/Ionic Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15970-15977	3.8	18
67	Raman spectroscopic evidence of the bronze-like recharging behavior for conducting films deposited from isopolytungstates. <i>Electrochimica Acta</i> , 2005 , 50, 1693-1702	6.7	16

66	Nature of the current pit in concentrated solutions: Part I. Microscopic modelling of the interaction of Pt(II) aquachlorocomplexes with a mercury electrode. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 491, 126-138	4.1	16
65	Rotating ring-disk electrode as a quantitative tool for the investigation of the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 286, 304-312	6.7	15
64	Mutual indirect probing of platinized platinum/tungstate nanostructural features. <i>Journal of Solid State Electrochemistry</i> , 2004 , 8, 778-785	2.6	15
63	Exploring the molecular features of cationic catalysis phenomenon: Peroxodisulfate reduction at a mercury electrode. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 582, 118-129	4.1	15
62	Dynamic solvent effects in electrochemical kinetics: indications for a switch of the relevant solvent mode. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 311-20	3.4	14
61	Self-inhibition phenomena in the electroreduction of hexamolybdocobaltate(III): A combined experimental and computational study. <i>Chemical Physics</i> , 2005 , 319, 200-209	2.3	14
60	Role of charge distribution in the reactant and product in double layer effects: construction of corrected Tafel plots. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 1348-56	2.8	13
59	Inhomogeneous films of conducting polymers BTM and electrochemical characterisation. <i>Electrochimica Acta</i> , 2001 , 46, 4043-4050	6.7	13
58	Activationless Reduction of the Hexacyanoferrate Anion on a Mercury Electrode. <i>Russian Journal of Electrochemistry</i> , 2003 , 39, 97-108	1.2	12
57	Electrodeposited oxotungstate films: Towards the molecular nature of recharging processes. <i>Electrochimica Acta</i> , 2011 , 56, 3530-3536	6.7	11
56	Adlayers of Keggin Type Polytungstate Anions on Platinum: Negligible Electrochemical Signatures and Manifestations of Molecular UPD. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17096-17105	3.4	11
55	Inorganic barrier layers: electron transfer on mercury modified by tungstate. <i>Mendeleev Communications</i> , 2002 , 12, 126-127	1.9	11
54	ORR on Simple Manganese Oxides: Molecular-Level Factors Determining Reaction Mechanisms and Electrocatalytic Activity. <i>Journal of the Electrochemical Society</i> , 2018 , 165, J3199-J3208	3.9	11
53	Electropolymerization of pyrrole in acetonitrile as affected by the nature of substitute and deposition potential. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 2039-2048	2.6	10
52	Medium and interfacial effects in the multistep reduction of binuclear complexes with robinson-type ligand. <i>Inorganic Chemistry</i> , 2008 , 47, 6659-73	5.1	9
51	Misleading aspects of the viscosity effect on the heterogeneous electron transfer reactions. <i>Chemical Physics</i> , 2006 , 326, 123-137	2.3	9
50	Excited state behaviors of the dodecamolybdocerate (IV) anion: (NH ₄) ₆ H ₂ (CeMo ₁₂ O ₄₂).9H ₂ O. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15633-9	3.4	9
49	Comparison of equilibrium electrochemical behavior of PdH _x and Li _x Mn ₂ O ₄ intercalation electrodes in terms of sorption isotherms. <i>Electrochimica Acta</i> , 2001 , 46, 4141-4149	6.7	9

48	Degradation of High Temperature Polymer Electrolyte Fuel Cell Cathode Material as Affected by Polybenzimidazole. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F587-F595	3.9	8
47	Subsequent redox transitions as a tool to understand solvation in ionic liquids. <i>Electrochimica Acta</i> , 2013 , 103, 243-251	6.7	8
46	Isotope effects in PdH(D) as an instrument for diagnosing bulk defects. <i>Journal of Solid State Electrochemistry</i> , 2001 , 5, 212-220	2.6	8
45	Electrodeposited non-stoichiometric tungstic acid for electrochromic applications: film growth modes, crystal structure, redox behavior and stability. <i>Applied Surface Science</i> , 2016 , 388, 786-793	6.7	8
44	Conductive additives for oxide-based OER catalysts: A comparative RRDE study of carbon and silver in alkaline medium. <i>Electrochimica Acta</i> , 2019 , 319, 227-236	6.7	7
43	Ionic association of Ce(IV)-decatungstate in the context of heteroatom reduction. <i>Electrochimica Acta</i> , 2010 , 55, 6064-6072	6.7	7
42	Hard-to-detect Co(III)/Co(II) reduction in a hexacyanocobaltate. <i>Mendeleev Communications</i> , 2004 , 14, 113-115	11.5	7
41	Mn_2O_3 oxide with bixbyite structure for the electrochemical oxygen reduction reaction in alkaline media: Highly active if properly manipulated. <i>Electrochimica Acta</i> , 2021 , 367, 137378	6.7	7
40	How to combine electrochromic and electrocatalytic applications with the low degradation rate of electrodeposited tungsten oxides. <i>Electrochimica Acta</i> , 2013 , 99, 102-107	6.7	6
39	The role of supporting electrolyte in heterogeneous electron transfer. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1833-1845	2.6	6
38	Toward the Reactivity Prediction: Outersphere Electroreduction of Transition-Metal Ammine Complexes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2881-2890	3.8	6
37	Co-adsorption of Cu and Keggin type polytungstates on polycrystalline Pt: interplay of atomic and molecular UPD. <i>Faraday Discussions</i> , 2008 , 140, 245-67; discussion 297-317	3.6	6
36	Interplay between solvent effects of different nature in interfacial bond breaking electron transfer. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10277-84	3.4	6
35	Electrochemistry and catalytic behavior of immobilized binuclear complexes of copper(II) and nickel(II) with Robson type ligand. <i>Journal of Solid State Electrochemistry</i> , 2007 , 11, 981-992	2.6	6
34	Corrected Marcus plots. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 157-167	2.6	6
33	Aqueous electrochemistry of binuclear copper complex with Robson-type ligand: dissolved versus surface-immobilized reactant. <i>Journal of Solid State Electrochemistry</i> , 2005 , 9, 581-589	2.6	6
32	Electroreduction of $[\text{Fe}(\text{CN})_6]^{3-}$ on a Mercury Electrode: Substantiating Activationless Character of the Process at High Overvoltages. <i>Russian Journal of Electrochemistry</i> , 2001 , 37, 15-25	1.2	6
31	Bismuth nanowires: electrochemical fabrication, structural features, and transport properties. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14953-14964	3.6	5

30	Electroreduction of peroxodisulfate on mercury in mixed water-carbohydrate media: The interplay of solvent effects and concentration-dependent structure of reaction layer. <i>Chemical Physics</i> , 2008 , 352, 345-352	2.3	5
29	Pd electrodeposited from membrane-separated thin layer cell. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 1085-1091	2.6	5
28	Carbon nanotube cloth for electrochemical charge storage in aqueous media. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 827, 58-63	4.1	5
27	Isopolytungstate Adsorption on Platinum: Manifestations of Underpotential Deposition. <i>Electrocatalysis</i> , 2012 , 3, 230-237	2.7	4
26	Binuclear Robson type Ni(II) complex as a reactant supplementing our knowledge of the orientation effects in electrochemical kinetics. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2390-8	3.6	4
25	Against "Electrochemical mainstreams" <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 2187-2188	2.6	3
24	Macrocyclic binuclear copper(II) and nickel(II) complexes: the key role of central ions in hydrogen peroxide electrocatalysis. <i>Mendeleev Communications</i> , 2005 , 15, 93-95	1.9	3
23	Effect of supporting electrolytes on the positions of outer-sphere charge-transfer bands in electronic absorption spectra. <i>Mendeleev Communications</i> , 2001 , 11, 88-89	1.9	3
22	Solvent effect on electron transfer through alkanethiols. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 58-64	4.1	3
21	Isopolymolybdate adsorption as related to inhibition and self-inhibition of electrode processes. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 756, 131-139	4.1	2
20	Half-wave potential as affected by supporting electrolyte nature: Interplay of adsorption and ionic association for electroreduction of V(V)-mixed addenda Keggin tungstophosphate. <i>Electrochimica Acta</i> , 2013 , 111, 292-298	6.7	2
19	2 Surface Thermodynamics of Metal/Solution Interface: the Untapped Resources. <i>Modern Aspects of Electrochemistry</i> , 2011 , 107-158		2
18	Outer-sphere electron transfer in aqueous solutions of lithium hexacyanoferrates. <i>Russian Chemical Bulletin</i> , 2003 , 52, 2393-2396	1.7	2
17	Electrode Potentials 2002 ,		2
16	Nitrate electroreduction on Pt in metatungstate-containing solution. <i>Mendeleev Communications</i> , 2018 , 28, 254-256	1.9	2
15	Electrochemistry of MoO ₃ ·2MoO ₄ melts: a chance to control the nature of reduced molybdenum oxides. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 3515-3528	2.6	1
14	Electrochemistry of Oxide High-Temperature Superconductors. <i>Advances in Electrochemical Science and Engineering</i> , 1997 , 61-123		1
13	Outer-sphere anion-anion charge transfer in a solid hexacyanoferrate. <i>Mendeleev Communications</i> , 2000 , 10, 86-87	1.9	1

12	Carbon nanotube cloth as a promising electrode material for flexible aqueous supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2022 , 52, 487-498	2.6	1
11	Cathodic deposition of birnessite from alkaline permanganate solutions: Tools to control the current efficiency, morphology and adhesion. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 874, 114521	4.1	1
10	(Invited) Fabrication and Operation under the Same Conditions: Oxygen Reduction on Electrodeposited Manganese Oxide. <i>ECS Transactions</i> , 2018 , 85, 137-145	1	1
9	Interfacial recharging behavior of mixed Co, Mn-based perovskite oxides. <i>Electrochimica Acta</i> , 2021 , 139257	2.7	1
8	Evolution of electrochemical education. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 2679-2684	2.6	0
7	Cathodic deposition of manganese oxide for fabrication of hybrid recharging materials based on flexible CNT cloth. <i>Electrochimica Acta</i> , 2022 , 412, 140131	6.7	0
6	Liquid Junction Potentials 2013 , 33-48		
5	Reliable rate constant determination for heterogeneous electron transfer: CrEDTA \square Mendeleev <i>Communications</i> , 2009 , 19, 314-316	1.9	
4	Inhibition and self-inhibition phenomena in mixed solutions of Anderson type polyoxometalates. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 905, 115952	4.1	
3	Specific Molecular Features of Potassium-Containing Cryolite Melts 2012 , 787-791		
2	Specific Molecular Features of Potassium-Containing Cryolite Melts 787-791		
1	Contributions of A.N. Frumkin and the Frumkin School to power sources research. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 373-385	2.6	