

# Galina A Tsirlina

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7941053/publications.pdf>

Version: 2024-02-01

102  
papers

2,188  
citations

218677

26  
h-index

265206

42  
g-index

111  
all docs

111  
docs citations

111  
times ranked

2334  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotube cloth as a promising electrode material for flexible aqueous supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 487-498.	2.9	6
2	Inhibition and self-inhibition phenomena in mixed solutions of Anderson type polyoxometalates. <i>Journal of Electroanalytical Chemistry</i> , 2022, 905, 115952.	3.8	0
3	Cathodic deposition of manganese oxide for fabrication of hybrid recharging materials based on flexible CNT cloth. <i>Electrochimica Acta</i> , 2022, 412, 140131.	5.2	2
4	Mn <sub>2</sub> O <sub>3</sub> 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.	5.2	21
5	Contributions of A.N. Frumkin and the Frumkin School to power sources research. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 373-385.	2.5	1
6	Interfacial recharging behavior of mixed Co, Mn-based perovskite oxides. <i>Electrochimica Acta</i> , 2021, 398, 139257.	5.2	3
7	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.	3.8	3
8	Evolution of electrochemical education. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2679-2684.	2.5	5
9	Against "electrochemical mainstreams". <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2187-2188.	2.5	3
10	Bismuth nanowires: electrochemical fabrication, structural features, and transport properties. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14953-14964.	2.8	10
11	Carbon materials as additives to the OER catalysts: RRDE study of carbon corrosion at high anodic potentials. <i>Electrochimica Acta</i> , 2019, 321, 134657.	5.2	53
12	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.	5.2	9
13	Solvent effect on electron transfer through alkanethiols. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 58-64.	3.8	5
14	Nitrate electroreduction on Pt in metatungstate-containing solution. <i>Mendeleev Communications</i> , 2018, 28, 254-256.	1.6	3
15	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.	2.9	18
16	Carbon nanotube cloth for electrochemical charge storage in aqueous media. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 58-63.	3.8	7
17	(Invited) Fabrication and Operation under the Same Conditions: Oxygen Reduction on Electrodeposited Manganese Oxide. <i>ECS Transactions</i> , 2018, 85, 137-145.	0.5	3
18	Rotating ring-disk electrode as a quantitative tool for the investigation of the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2018, 286, 304-312.	5.2	25

#	ARTICLE	IF	CITATIONS
19	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.	5.2	40
20	Electrochemical growth of nanowires in anodic alumina templates: the role of pore branching. <i>Electrochimica Acta</i> , 2017, 226, 60-68.	5.2	24
21	The role of supporting electrolyte in heterogeneous electron transfer. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1833-1845.	2.5	13
22	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.	6.1	9
23	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.	3.4	39
24	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.	5.2	97
25	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.	2.9	10
26	Isopolymolybdate adsorption as related to inhibition and self-inhibition of electrode processes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 756, 131-139.	3.8	2
27	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.	6.6	106
28	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.	5.2	23
29	V. S. Bagotsky's contribution to modern electrochemistry. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1147-1169.	2.5	4
30	Long Distance Electron Transfer at the Metal/Alkanethiol/Ionic Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15970-15977.	3.1	18
31	Electrocatalytic Oxygen Reduction Reaction on Perovskite Oxides: Series versus Direct Pathway. <i>ChemPhysChem</i> , 2014, 15, 2108-2120.	2.1	77
32	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.	3.1	49
33	How to combine electrochromic and electrocatalytic applications with the low degradation rate of electrodeposited tungsten oxides. <i>Electrochimica Acta</i> , 2013, 99, 102-107.	5.2	6
34	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.	5.2	2
35	Liquid Junction Potentials. , 2013, , 33-48.		0
36	Subsequent redox transitions as a tool to understand solvation in ionic liquids. <i>Electrochimica Acta</i> , 2013, 103, 243-251.	5.2	9

#	ARTICLE	IF	CITATIONS
37	A spectroscopic and computational study of Al(III) complexes in cryolite melts: Effect of cation nature. <i>Chemical Physics</i> , 2013, 412, 22-29.	1.9	24
38	Traditional and Novel Platinum/Conducting Oxide Electrocatalysts: Trends and Promise. <i>ECS Meeting Abstracts</i> , 2013, , .	0.0	0
39	Electrochemistry of MoO <sub>3</sub> ·K <sub>2</sub> MoO <sub>4</sub> melts: a chance to control the nature of reduced molybdenum oxides. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3515-3528.	2.5	1
40	Isopolytungstate Adsorption on Platinum: Manifestations of Underpotential Deposition. <i>Electrocatalysis</i> , 2012, 3, 230-237.	3.0	5
41	Specific Molecular Features of Potassium-Containing Cryolite Melts. , 2012, , 787-791.		0
42	Quinones Electrochemistry in Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 668-677.	2.6	48
43	Structural and electrocatalytic features of Pt/C catalysts fabricated in supercritical carbon dioxide. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 623-633.	2.5	21
44	Tuning the microstructure and functional properties of metal nanowire arrays via deposition potential. <i>Electrochimica Acta</i> , 2011, 56, 2378-2384.	5.2	63
45	Electrodeposited oxotungstate films: Towards the molecular nature of recharging processes. <i>Electrochimica Acta</i> , 2011, 56, 3530-3536.	5.2	13
46	2 Surface Thermodynamics of Metal/Solution Interface: the Untapped Resources. <i>Modern Aspects of Electrochemistry</i> , 2011, , 107-158.	0.2	2
47	Dynamic Solvent Effects in Electrochemical Kinetics: Indications for a Switch of the Relevant Solvent Mode. <i>Journal of Physical Chemistry B</i> , 2010, 114, 311-320.	2.6	15
48	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.	2.5	13
49	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, 1244-1252.	3.9	31
50	Ionic association of Ce(IV)-decatungstate in the context of heteroatom reduction. <i>Electrochimica Acta</i> , 2010, 55, 6064-6072.	5.2	7
51	Controlled growth of metallic inverse opals by electrodeposition. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15414.	2.8	38
52	Reliable rate constant determination for heterogeneous electron transfer: CrEDTA <sup>4-</sup> . <i>Mendeleev Communications</i> , 2009, 19, 314-316.	1.6	0
53	Toward the Reactivity Prediction: Outersphere Electroreduction of Transition-Metal Ammine Complexes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2881-2890.	3.1	8
54	Interplay between Solvent Effects of Different Nature in Interfacial Bond Breaking Electron Transfer. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10277-10284.	2.6	6

#	ARTICLE	IF	CITATIONS
55	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.	1.9	5
56	Pd electrodeposited from membrane-separated thin layer cell. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 1085-1091.	2.5	5
57	Oleg Petrii, a true artist in electrochemistry. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 329-345.	2.5	1
58	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.	2.8	4
59	Medium and Interfacial Effects in the Multistep Reduction of Binuclear Complexes with Robson-Type Ligand. <i>Inorganic Chemistry</i> , 2008, 47, 6659-6673.	4.0	9
60	Co-adsorption of Cu and Keggin type polytungstates on polycrystalline Pt: interplay of atomic and molecular UPD. <i>Faraday Discussions</i> , 2008, 140, 245-267.	3.2	7
61	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.	2.8	87
62	Life of the Tafel equation: Current understanding and prospects for the second century. <i>Electrochimica Acta</i> , 2007, 52, 3493-3504.	5.2	85
63	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.	2.5	6
64	Excited State Behaviors of the Dodecamolybdocerate (IV) Anion: $(\text{NH}_4)_6\text{H}_2(\text{CeMo}_{12}\text{O}_{42}) \cdot 9\text{H}_2\text{O}$ . <i>Journal of Physical Chemistry B</i> , 2006, 110, 15633-15639.	2.6	10
65	Electrodeposited platinum revisited: Tuning nanostructure via the deposition potential. <i>Electrochimica Acta</i> , 2006, 51, 4477-4488.	5.2	103
66	Corrected Marcus plots. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 157-167.	2.5	9
67	Misleading aspects of the viscosity effect on the heterogeneous electron transfer reactions. <i>Chemical Physics</i> , 2006, 326, 123-137.	1.9	10
68	Exploring the molecular features of cationic catalysis phenomenon: Peroxodisulfate reduction at a mercury electrode. <i>Journal of Electroanalytical Chemistry</i> , 2005, 582, 118-129.	3.8	21
69	Reticulated vitreous carbon-polyaniline-palladium composite electrodes. <i>Electrochimica Acta</i> , 2005, 50, 1885-1893.	5.2	35
70	Raman spectroscopic evidence of the bronze-like recharging behavior for conducting films deposited from isopolytungstates. <i>Electrochimica Acta</i> , 2005, 50, 1693-1702.	5.2	23
71	Why does the hydrolysis of In(III) aquacomplexes make them electrochemically more active?. <i>Electrochimica Acta</i> , 2005, 50, 4888-4896.	5.2	20
72	Network electrocatalytic films of conducting polymer-linked polyoxometallate-stabilized platinum nanoparticles. <i>Electrochimica Acta</i> , 2005, 50, 5155-5162.	5.2	49

#	ARTICLE	IF	CITATIONS
73	Self-inhibition phenomena in the electroreduction of hexamolybdocobaltate(III): A combined experimental and computational study. <i>Chemical Physics</i> , 2005, 319, 200-209.	1.9	15
74	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.	1.6	3
75	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.	2.5	6
76	Role of Charge Distribution in the Reactant and Product in Double Layer Effects:Â Construction of Corrected Tafel Plots. <i>Journal of Physical Chemistry A</i> , 2005, 109, 1348-1356.	2.5	13
77	Hard-to-detect CoIII/CoII reduction in a hexacyanocobaltate. <i>Mendeleev Communications</i> , 2004, 14, 113-115.	1.6	9
78	Mutual indirect probing of platinized platinum/tungstate nanostructural features. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 778-785.	2.5	16
79	Adlayers of Keggin Type Polytungstate Anions on Platinum:Â Negligible Electrochemical Signatures and Manifestations of â€œMolecular UPDâ€. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17096-17105.	2.6	14
80	Formation of Rechargeable Films on Platinum in Sulfuric Acid Solutions of Isopolytungstates. <i>Russian Journal of Electrochemistry</i> , 2003, 39, 716-726.	0.9	28
81	Outer-sphere electron transfer in aqueous solutions of lithium hexacyanoferrates. <i>Russian Chemical Bulletin</i> , 2003, 52, 2393-2396.	1.5	2
82	Activationless Reduction of the Hexacyanoferrate Anion on a Mercury Electrode. <i>Russian Journal of Electrochemistry</i> , 2003, 39, 97-108.	0.9	14
83	Platinization assisted by Keggin-type heteropolytungstates. <i>Electrochimica Acta</i> , 2003, 48, 3797-3804.	5.2	22
84	Contemporary understanding of the peroxodisulfate reduction at a mercury electrode. <i>Journal of Electroanalytical Chemistry</i> , 2003, 552, 261-278.	3.8	33
85	Tribute to Boris Borisovich Damaskin. <i>Journal of Electroanalytical Chemistry</i> , 2003, 552, 1-17.	3.8	0
86	Molecular Description of the Persulfate Ion Reduction on a Mercury Electrode. <i>Russian Journal of Electrochemistry</i> , 2002, 38, 720-731.	0.9	26
87	Frumkin Correction: Microscopic View. <i>Russian Journal of Electrochemistry</i> , 2002, 38, 132-140.	0.9	28
88	Inorganic barrier layers: electron transfer on mercury modified by tungstate. <i>Mendeleev Communications</i> , 2002, 12, 126-127.	1.6	12
89	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.	1.6	3
90	Isotope effects in $\hat{\pm}$ -PdH(D) as an instrument for diagnosing bulk defects. <i>Journal of Solid State Electrochemistry</i> , 2001, 5, 212-220.	2.5	14

#	ARTICLE	IF	CITATIONS
91	Comparison of equilibrium electrochemical behavior of PdH <sub>x</sub> and Li <sub>x</sub> Mn <sub>2</sub> O <sub>4</sub> intercalation electrodes in terms of sorption isotherms. <i>Electrochimica Acta</i> , 2001, 46, 4141-4149.	5.2	12
92	Inhomogeneous films of conducting polymers—STM and electrochemical characterisation. <i>Electrochimica Acta</i> , 2001, 46, 4043-4050.	5.2	15
93	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.	3.8	42
94	Title is missing!. <i>Russian Journal of Electrochemistry</i> , 2001, 37, 15-25.	0.9	8
95	Size effects in electrochemistry. <i>Russian Chemical Reviews</i> , 2001, 70, 285-298.	6.5	53
96	Quantum chemical modelling of the heterogeneous electron transfer: from qualitative analysis to a polarization curve. <i>Electrochimica Acta</i> , 2000, 45, 3521-3536.	5.2	55
97	Nature of the $\hat{\epsilon}$ -current pit™ in concentrated solutions. <i>Journal of Electroanalytical Chemistry</i> , 2000, 491, 126-138.	3.8	23
98	Size effects on the electrochemical oxidation of oxalic acid on nanocrystalline platinum. <i>Journal of Electroanalytical Chemistry</i> , 2000, 480, 112-119.	3.8	35
99	Outer-sphere anion—anion charge transfer in a solid hexacyanoferrate. <i>Mendeleev Communications</i> , 2000, 10, 86-87.	1.6	2
100	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.	3.8	34
101	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.	2.6	40
102	Electrocatalytic activity prediction for hydrogen electrode reaction: intuition, art, science. <i>Electrochimica Acta</i> , 1994, 39, 1739-1747.	5.2	106