

# Ilya V Pobelov

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,842  
citations

331538

21  
h-index

315616

38  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge Transport in Single Au   Alkanedithiol   Au Junctions: Coordination Geometries and Conformational Degrees of Freedom. <i>Journal of the American Chemical Society</i> , 2008, 130, 318-326.	6.6	464
2	Influence of Conformation on Conductance of Biphenyl-Dithiol Single-Molecule Contacts. <i>Nano Letters</i> , 2010, 10, 156-163.	4.5	284
3	Electrolyte Gating in Redox-Active Tunneling Junctions—An Electrochemical STM Approach. <i>Journal of the American Chemical Society</i> , 2008, 130, 16045-16054.	6.6	158
4	Two-dimensional assembly and local redox-activity of molecular hybrid structures in an electrochemical environment. <i>Faraday Discussions</i> , 2006, 131, 121-143.	1.6	124
5	Conductance of redox-active single molecular junctions: an electrochemical approach. <i>Nanotechnology</i> , 2007, 18, 044018.	1.3	77
6	From Redox Gating to Quantized Charging. <i>Journal of the American Chemical Society</i> , 2010, 132, 8187-8193.	6.6	65
7	Highly-effective gating of single-molecule junctions: an electrochemical approach. <i>Chemical Communications</i> , 2014, 50, 15975-15978.	2.2	53
8	Current measurements in a wide dynamic range—applications in electrochemical nanotechnology. <i>Nanotechnology</i> , 2007, 18, 424004.	1.3	51
9	Correlation of breaking forces, conductances and geometries of molecular junctions. <i>Scientific Reports</i> , 2015, 5, 9002.	1.6	48
10	Electrochemical gate-controlled electron transport of redox-active single perylene bisimide molecular junctions. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 374122.	0.7	39
11	Electrochemical current-sensing atomic force microscopy in conductive solutions. <i>Nanotechnology</i> , 2013, 24, 115501.	1.3	34
12	Zika Virus-Derived E-DIII Protein Displayed on Immunologically Optimized VLPs Induces Neutralizing Antibodies without Causing Enhancement of Dengue Virus Infection. <i>Vaccines</i> , 2019, 7, 72.	2.1	33
13	Layer-by-layer grown scalable redox-active ruthenium-based molecular multilayer thin films for electrochemical applications and beyond. <i>Nanoscale</i> , 2015, 7, 17685-17692.	2.8	32
14	Fabrication of cone-shaped boron doped diamond and gold nanoelectrodes for AFM—SECM. <i>Nanotechnology</i> , 2011, 22, 145306.	1.3	31
15	Dynamic breaking of a single gold bond. <i>Nature Communications</i> , 2017, 8, 15931.	5.8	28
16	Atomic Force Microscopy-Scanning Electrochemical Microscopy: Influence of Tip Geometry and Insulation Defects on Diffusion Controlled Currents at Conical Electrodes. <i>Analytical Chemistry</i> , 2011, 83, 2971-2977.	3.2	24
17	Nature of the $\tilde{c}$ -current pit <sup>TM</sup> in concentrated solutions. <i>Journal of Electroanalytical Chemistry</i> , 2000, 491, 126-138.	1.9	23
18	Scanning Tunneling Microscopy and Spectroscopy Studies of 4-Methyl-4-(n-mercaptoalkyl)biphenyls on Au(111)-(1Å <sup>-1</sup> ). <i>ChemPhysChem</i> , 2007, 8, 1037-1048.	1.0	22

#	ARTICLE	IF	CITATIONS
19	From Self-Assembly to Charge Transport with Single Molecules – An Electrochemical Approach. Topics in Current Chemistry, 2008, 287, 181-255.	4.0	22
20	Electrochemical control of a non-covalent binding between ferrocene and beta-cyclodextrin. Chemical Communications, 2014, 50, 11757-11759.	2.2	22
21	Quantifying perchlorate adsorption on Au(1 1 1) electrodes. Electrochimica Acta, 2014, 146, 112-118.	2.6	22
22	Redox-Active Catechol-Functionalized Molecular Rods: Suitable Protection Groups and Single-Molecule Transport Investigations. European Journal of Organic Chemistry, 2008, 2008, 136-149.	1.2	21
23	Reconstruction and electrochemical oxidation of Au(110) surface in 0.1 M H <sub>2</sub> SO <sub>4</sub> . Electrochimica Acta, 2014, 139, 281-288.	2.6	21
24	An approach to measure electromechanical properties of atomic and molecular junctions. Journal of Physics Condensed Matter, 2012, 24, 164210.	0.7	18
25	Charge Transport with Single Molecules – An Electrochemical Approach. Chimia, 2010, 64, 383.	0.3	17
26	Structural aspects of redox-mediated electron tunneling. Journal of Electroanalytical Chemistry, 2011, 660, 302-308.	1.9	17
27	Scanning electrochemical microscopy: Diffusion controlled approach curves for conical AFM-SECM tips. Electrochemistry Communications, 2013, 27, 29-33.	2.3	14
28	ATR-SEIRAS study of CO adsorption and oxidation on Rh modified Au(111-25 nm) film electrodes in 0.1 M H <sub>2</sub> SO <sub>4</sub> . Electrochimica Acta, 2015, 176, 1202-1213.	2.6	11
29	ATR-SEIRAS study of formic acid adsorption and oxidation on Rh modified Au(111-25 nm) film electrodes in 0.1 M H <sub>2</sub> SO <sub>4</sub> . Journal of Electroanalytical Chemistry, 2017, 793, 70-76.	1.9	10
30	Decoupling surface reconstruction and perchlorate adsorption on Au(111). Electrochemistry Communications, 2014, 44, 31-33.	2.3	9
31	Reduction of an Ensemble of Platinum(II) Aquachloride Complexes: Dynamic Effect of the Solvent. Russian Journal of Electrochemistry, 2003, 39, 828-838.	0.3	8
32	Structure transitions between copper-sulphate and copper-chloride UPD phases on Au(111). Journal of Chemical Sciences, 2009, 121, 745-756.	0.7	7
33	A redox-active radical as an effective nanoelectronic component: stability and electrochemical tunnelling spectroscopy in ionic liquids. Physical Chemistry Chemical Physics, 2016, 18, 27733-27737.	1.3	7
34	Interfacial electron transfer between Geobacter sulfurreducens and gold electrodes via carboxylate-alkanethiol linkers: Effects of the linker length. Bioelectrochemistry, 2019, 126, 130-136.	2.4	7
35	Title is missing!. Russian Journal of Electrochemistry, 2001, 37, 233-243.	0.3	6
36	Breaking Force and Conductance of Gold Nanojunctions: Effect of Humidity. Journal of Physical Chemistry Letters, 2014, 5, 3560-3564.	2.1	5

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37	Correction for the Concentration Polarization for Simultaneous Reduction of Several Reactants: Platinum(II) Aquachloride Complexes. Russian Journal of Electrochemistry, 2004, 40, 924-929.	0.3	3
38	Electrochemical Scanning Tunneling Microscopy. , 2012, , 688-702.		1
39	Thermodynamics of Ions in Solutions. , 2018, , 299-315.		0
40	Electrochemical Scanning Tunneling Microscopy. , 2015, , 1-16.		0
41	Electrochemical Scanning Tunneling Microscopy. , 2016, , 1000-1015.		0