

# Natalia Borisenko

## List of Publications by Year in descending order

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33  
papers

2,100  
citations

430874

18  
h-index

454955

30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1755  
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Atomic Force Microscopic Studies of LiFSI-[Py <sub>1,4</sub> ]FSI Interfacial Nanostructure on Au(111): Solid Electrolyte Interphase and Lithium Underpotential Deposition. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27140-27147.	3.1	3
2	On the failure mechanism of Nb electrodeposition from NbCl <sub>5</sub> in alkylmethylpyrrolidinium TFSI ionic liquids. <i>Electrochimica Acta</i> , 2020, 362, 137176.	5.2	0
3	(Invited) Electrodeposition As a Versatile Method to Prepare Materials for the Storage and Conversion of Sustainable Energy. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
4	Electrochemical Deposition of Tantalum from Ionic Liquids. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
5	Electrochemical Synthesis of Battery Electrode Materials from Ionic Liquids. <i>Topics in Current Chemistry</i> , 2018, 376, 9.	5.8	7
6	The Apparent Band Gap of p-Doped H-Passivated Si (111) with a Thin Film of an Ionic Liquid on Top. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5481-5488.	3.1	2
7	The Au(111)/IL interfacial nanostructure in the presence of precursors and its influence on the electrodeposition process. <i>Faraday Discussions</i> , 2018, 206, 459-473.	3.2	11
8	Anomalous electroless deposition of less noble metals on Cu in ionic liquids and its application towards battery electrodes. <i>Faraday Discussions</i> , 2018, 206, 339-351.	3.2	14
9	Electrochemical Synthesis of Battery Electrode Materials from Ionic Liquids. <i>Topics in Current Chemistry Collections</i> , 2018, , 55-83.	0.5	1
10	(Invited) Electrochemical Synthesis of Metal and Semiconductor Nanostructures from Ionic Liquids. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
11	Nanostructure of the H-terminated p-Si(111)/ionic liquid interface and the effect of added lithium salt. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 54-58.	2.8	8
12	Hydrofluoric Acid-Free Electroless Deposition of Metals on Silicon in Ionic Liquids and Its Enhanced Performance in Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11350-11355.	8.0	13
13	Electrodeposition of zinc nanoplates from an ionic liquid composed of 1-butylpyrrolidine and ZnCl <sub>2</sub> : electrochemical, in situ AFM and spectroscopic studies. <i>Dalton Transactions</i> , 2017, 46, 455-464.	3.3	18
14	Influence of Water on the Electrified Ionic Liquid/Solid Interface: A Direct Observation of the Transition from a Multilayered Structure to a Double-Layer Structure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9341-9349.	3.1	89
15	[Py <sub>1,4</sub> ]FSI-NaFSI-Based Ionic Liquid Electrolyte for Sodium Batteries: Na <sup>+</sup> Solvation and Interfacial Nanostructure on Au(111). <i>Journal of Physical Chemistry C</i> , 2016, 120, 14736-14741.	3.1	45
16	Surface modification of battery electrodes via electroless deposition with improved performance for Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14782-14786.	2.8	25
17	Characterisation of the solid electrolyte interface during lithiation/delithiation of germanium in an ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5630-5637.	2.8	36
18	In situ scanning tunneling microscopy (STM), atomic force microscopy (AFM) and quartz crystal microbalance (EQCM) studies of the electrochemical deposition of tantalum in two different ionic liquids with the 1-butyl-1-methylpyrrolidinium cation. <i>Electrochimica Acta</i> , 2016, 197, 374-387.	5.2	31

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19	Electroless Deposition of III-V Semiconductor Nanostructures from Ionic Liquids at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11870-11874.	13.8	21
20	Influence of an Additive on Zinc Electrodeposition in the Ionic Liquid 1-ethyl-3-methylimidazolium Trifluoromethylsulfonate. <i>ChemElectroChem</i> , 2015, 2, 1159-1163.	3.4	14
21	Structure and dynamics of the interfacial layer between ionic liquids and electrode materials. <i>Journal of Molecular Liquids</i> , 2014, 192, 44-54.	4.9	133
22	Effect of dissolved LiCl on the ionic liquid-Au(111) interface: an <i>in situ</i> STM study. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 284111.	1.8	16
23	Electrodeposition of gallium in the presence of NH <sub>4</sub> Cl in an ionic liquid: hints for GaN formation. <i>Chemical Communications</i> , 2014, 50, 10438.	4.1	12
24	Combined STM, AFM, and DFT Study of the Highly Ordered Pyrolytic Graphite/1-Octyl-3-methyl-imidazolium Bis(trifluoromethylsulfonyl)imide Interface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10833-10843.	3.1	65
25	Investigation of Various Ionic Liquids and Catalyst Materials for Lithium-Oxygen Batteries. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 107-119.	2.8	22
26	New insights into the interface between a single-crystalline metal electrode and an extremely pure ionic liquid: slow interfacial processes and the influence of temperature on interfacial dynamics. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5090.	2.8	147
27	<i>In situ</i> STM, AFM and DTS study of the interface 1-hexyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate/Au(111). <i>Electrochimica Acta</i> , 2012, 82, 48-59.	5.2	53
28	The interface ionic liquid(s)/electrode(s): <i>In situ</i> STM and AFM measurements. <i>Faraday Discussions</i> , 2012, 154, 221-233.	3.2	176
29	An <i>In Situ</i> STM and DTS Study of the Extremely Pure [EMIM]FAP/Au(111) Interface. <i>ChemPhysChem</i> , 2012, 13, 1736-1742.	2.1	24
30	An <i>in situ</i> STM/AFM and impedance spectroscopy study of the extremely pure 1-butyl-1-methylpyrrolidinium tris(pentafluoroethyl)trifluorophosphate/Au(111) interface: potential dependent solvation layers and the herringbone reconstruction. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6849.	2.8	224
31	Double Layer Structure of Ionic Liquids at the Au(111) Electrode Interface: An Atomic Force Microscopy Investigation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6855-6863.	3.1	336
32	Do solvation layers of ionic liquids influence electrochemical reactions?. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1724.	2.8	240
33	AFM and STM Studies on the Surface Interaction of [BMP]TFSA and [EMIm]TFSA Ionic Liquids with Au(111). <i>Journal of Physical Chemistry C</i> , 2009, 113, 13266-13272.	3.1	305