Natalia Borisenko

List of Publications by Year
in descending order

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33	2,100	430874 18	454955 30
papers	citations	h-index	g-index

36	36	36	1755
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Double Layer Structure of Ionic Liquids at the Au(111) Electrode Interface: An Atomic Force Microscopy Investigation. Journal of Physical Chemistry C, 2011, 115, 6855-6863.	3.1	336
2	AFM and STM Studies on the Surface Interaction of [BMP]TFSA and [EMIm]TFSA Ionic Liquids with Au(111). Journal of Physical Chemistry C, 2009, 113, 13266-13272.	3.1	305
3	Do solvation layers of ionic liquids influence electrochemical reactions?. Physical Chemistry Chemical Physics, 2010, 12, 1724.	2.8	240
4	An in situ 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. Physical Chemistry Chemical Physics, 2011, 13, 6849.	2.8	224
5	The interface ionic liquid(s)/electrode(s): In situSTM and AFM measurements. Faraday Discussions, 2012, 154, 221-233.	3.2	176
6	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. Physical Chemistry Chemical Physics, 2012, 14, 5090.	2.8	147
7	Structure and dynamics of the interfacial layer between ionic liquids and electrode materials. Journal of Molecular Liquids, 2014, 192, 44-54.	4.9	133
8	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. Journal of Physical Chemistry C, 2016, 120, 9341-9349.	3.1	89
9	Combined STM, AFM, and DFT Study of the Highly Ordered Pyrolytic Graphite/1-Octyl-3-methyl-imidazolium Bis(trifluoromethylsulfonyl)imide Interface. Journal of Physical Chemistry C, 2014, 118, 10833-10843.	3.1	65
10	In situ STM, AFM and DTS study of the interface 1-hexyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate/Au(111). Electrochimica Acta, 2012, 82, 48-59.	5.2	53
11	[Py_{1,4}]FSI-NaFSI-Based Ionic Liquid Electrolyte for Sodium Batteries: Na⁺ Solvation and Interfacial Nanostructure on Au(111). Journal of Physical Chemistry C, 2016, 120, 14736-14741.	3.1	45
12	Characterisation of the solid electrolyte interface during lithiation/delithiation of germanium in an ionic liquid. Physical Chemistry Chemical Physics, 2016, 18, 5630-5637.	2.8	36
13	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. Electrochimica Acta, 2016, 197, 374-387.	5.2	31
14	Surface modification of battery electrodes via electroless deposition with improved performance for Na-ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 14782-14786.	2.8	25
15	An in Situ STM and DTS Study of the Extremely Pure [EMIM]FAP/Au(111) Interface. ChemPhysChem, 2012, 13, 1736-1742.	2.1	24
16	Investigation of Various Ionic Liquids and Catalyst Materials for Lithium-Oxygen Batteries. Zeitschrift Fur Physikalische Chemie, 2012, 226, 107-119.	2.8	22
17	Electroless Deposition of IIIâ€“V Semiconductor Nanostructures from Ionic Liquids at Room Temperature. Angewandte Chemie - International Edition, 2015, 54, 11870-11874.	13.8	21
18	Electrodeposition of zinc nanoplates from an ionic liquid composed of 1-butylpyrrolidine and ZnCl₂: electrochemical, in situ AFM and spectroscopic studies. Dalton Transactions, 2017, 46, 455-464.	3.3	18

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19	Effect of dissolved LiCl on the ionic liquidâ€“Au(111) interface: an in situ STM study. Journal of Physics Condensed Matter, 2014, 26, 284111.	1.8	16
20	Influence of an Additive on Zinc Electrodeposition in the Ionic Liquid 1â€Ethylâ€3â€methylimidazolium Trifluoromethylsulfonate. ChemElectroChem, 2015, 2, 1159-1163.	3.4	14
21	Anomalous electroless deposition of less noble metals on Cu in ionic liquids and its application towards battery electrodes. Faraday Discussions, 2018, 206, 339-351.	3.2	14
22	Hydrofluoric Acid-Free Electroless Deposition of Metals on Silicon in Ionic Liquids and Its Enhanced Performance in Lithium Storage. ACS Applied Materials & Interfaces, 2017, 9, 11350-11355.	8.0	13
23	Electrodeposition of gallium in the presence of NH₄Cl in an ionic liquid: hints for GaN formation. Chemical Communications, 2014, 50, 10438.	4.1	12
24	The Au(111)/IL interfacial nanostructure in the presence of precursors and its influence on the electrodeposition process. Faraday Discussions, 2018, 206, 459-473.	3.2	11
25	Nanostructure of the H-terminated p-Si(111)/ionic liquid interface and the effect of added lithium salt. Physical Chemistry Chemical Physics, 2017, 19, 54-58.	2.8	8
26	Electrochemical Synthesis of Battery Electrode Materials from Ionic Liquids. Topics in Current Chemistry, 2018, 376, 9.	5.8	7
27	In Situ Atomic Force Microscopic Studies of LiFSI-[Py_{1,4}]FSI Interfacial Nanostructure on Au(111): Solid Electrolyte Interphase and Lithium Underpotential Deposition. Journal of Physical Chemistry C, 2021, 125, 27140-27147.	3.1	3
28	The Apparent Band Gap of p-Doped H-Passivated Si (111) with a Thin Film of an Ionic Liquid on Top. Journal of Physical Chemistry C, 2018, 122, 5481-5488.	3.1	2
29	Electrochemical Synthesis of Battery Electrode Materials from Ionic Liquids. Topics in Current Chemistry Collections, 2018, , 55-83.	0.5	1
30	On the failure mechanism of Nb electrodeposition from NbCl5 in alkylmethylpyrrolidinium TFSI ionic liquids. Electrochimica Acta, 2020, 362, 137176.	5.2	0
31	(Invited) Electrochemical Synthesis of Metal and Semiconductor Nanostructures from Ionic Liquids. ECS Meeting Abstracts, 2018, , .	0.0	0
32	(Invited) Electrodeposition As a Versatile Method to Prepare Materials for the Storage and Conversion of Sustainable Energy. ECS Meeting Abstracts, 2019, , .	0.0	0
33	Electrochemical Deposition of Tantalum from Ionic Liquids. ECS Meeting Abstracts, 2019, , .	0.0	0