

CITATION REPORT

List of articles citing

A classical density functional theory of ionic liquids

DOI: 10.1021/jp111747w

Journal of Physical Chemistry B, 2011, 115, 4606-12.

Source: <https://exaly.com/paper-pdf/50425066/citation-report.pdf>

Version: 2024-04-29

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
73	Large Variations in the Composition of Ionic LiquidSolvent Mixtures in Nanoscale Confinement.		
72	Density functional study of the electric double layer formed by a high density electrolyte. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12911-4	3.4	74
71	Oscillation of capacitance inside nanopores. <i>Nano Letters</i> , 2011 , 11, 5373-7	11.5	240
70	A classical density functional theory for interfacial layering of ionic liquids. <i>Soft Matter</i> , 2011 , 7, 11222	3.6	143
69	Classical Density Functional Theory of Ionic Liquids. 2011 ,		
68	Hierarchic zeolites studied by IR spectroscopy: Acid properties of zeolite ZSM-5 desilicated with NaOH and NaOH/tetrabutylamine hydroxide. <i>Vibrational Spectroscopy</i> , 2012 , 63, 418-425	2.1	68
67	Electrochemical properties of the double layer of an ionic liquid using a dimer model electrolyte and density functional theory. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 2520-5	3.4	32
66	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, 5090-9	3.6	134
65	Theoretical Prediction of the Capacitance of Ionic Liquid Films. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15946-15951	3.8	15
64	Effects of specific adsorption on the differential capacitance of imidazolium-based ionic liquid electrolytes. <i>ChemPhysChem</i> , 2012 , 13, 1671-6	3.2	49
63	Capillary Condensation of Ionic Liquid Solutions in Porous Electrodes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1728-1734	3.8	11
62	The Differential Capacitance of Ionic Liquid / Metal Electrode Interfaces [A Critical Comparison of Experimental Results with Theoretical Predictions. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2013 , 68, 1143-1153	1	40
61	Adapting SAFT- Γ perturbation theory to site-based molecular dynamics simulation. III. Molecules with partial charges at bulk phases, confined geometries and interfaces. <i>Journal of Chemical Physics</i> , 2014 , 141, 094708	3.9	4
60	Electrical double layers and differential capacitance in molten salts from density functional theory. <i>Journal of Chemical Physics</i> , 2014 , 141, 054708	3.9	23
59	Exponential approximation for one-component Yukawa plasma. <i>Journal of Chemical Physics</i> , 2014 , 141, 204108	3.9	3
58	Revisiting density functionals for the primitive model of electric double layers. <i>Journal of Chemical Physics</i> , 2014 , 140, 044714	3.9	47
57	Ionic liquids at electrified interfaces. <i>Chemical Reviews</i> , 2014 , 114, 2978-3036	68.1	905

56	Classical density functional theory & simulations on a coarse-grained model of aromatic ionic liquids. <i>Soft Matter</i> , 2014 , 10, 3229-37	3.6	14
55	A contact-corrected density functional theory for electrolytes at an interface. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 3934-8	3.6	24
54	Interfacial structure and orientation of confined ionic liquids on charged quartz surfaces. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23329-39	3.6	38
53	Kinetic Charging Inversion in Ionic Liquid Electric Double Layers. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2195-200	6.4	48
52	Classical Density Functional Study on Interfacial Structure and Differential Capacitance of Ionic Liquids near Charged Surfaces. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15825-15834	3.8	23
51	Quantum molecular dynamics simulations of liquid benzene using orbital optimization. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	2
50	Influence of ion pairing in ionic liquids on electrical double layer structures and surface force using classical density functional approach. <i>Journal of Chemical Physics</i> , 2015 , 142, 174704	3.9	29
49	A new equation of state of a flexible-chain polyelectrolyte solution: Phase equilibria and osmotic pressure in the salt-free case. <i>Journal of Chemical Physics</i> , 2015 , 142, 174901	3.9	18
48	Non-Faradaic Energy Storage by Room Temperature Ionic Liquids in Nanoporous Electrodes. <i>ACS Nano</i> , 2015 , 9, 5999-6017	16.7	80
47	Fundamental measure theory for the electric double layer: implications for blue-energy harvesting and water desalination. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 194129	1.8	31
46	Capacitive Energy Storage: Current and Future Challenges. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3594-609	6.4	78
45	Conformational Properties of a Polymer in an Ionic Liquid: Computer Simulations and Integral Equation Theory of a Coarse-Grained Model. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 9091-7	3.4	9
44	The influence of excluded volume and excess ion polarisability on the capacitance of the electric double layer. <i>Molecular Physics</i> , 2016 , 114, 2477-2491	1.7	17
43	Dense ionic fluids confined in planar capacitors: in- and out-of-plane structure from classical density functional theory. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 244007	1.8	10
42	A comparative study of room temperature ionic liquids and their organic solvent mixtures near charged electrodes. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 464002	1.8	24
41	Electrochemical Double Layers in Ionic Liquids Investigated by Broadband Impedance Spectroscopy and Other Complementary Experimental Techniques. <i>Advances in Dielectrics</i> , 2016 , 157-192	0.6	
40	Elucidation of molecular interactions between a DBU based protic ionic liquid and organic solvents: thermophysical and computational studies. <i>RSC Advances</i> , 2016 , 6, 623-631	3.7	21
39	Fused coarse-grained model of aromatic ionic liquids and their behaviour at electrodes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8165-73	3.6	7

38 Impedance Spectroscopy on Electrode | Ionic Liquid Interfaces. **2017**, 373-399

37 Theoretical calculation of the physico-chemical properties of 1-butyl-4-methylpyridinium based ionic liquids. *Journal of Molecular Liquids*, **2017**, 225, 467-474 6 16

36 Density functional theory study on the ionic liquid pyridinium hydrogen sulfate. *Journal of Molecular Structure*, **2017**, 1139, 400-406 3.4 26

35 Classical Density Functional Theory of Polymer Fluids. *Molecular Modeling and Simulation*, **2017**, 101-136 1

34 The effect of dispersion interactions on the structure and performance of electrical double layer of ionic liquids. *Journal of Molecular Liquids*, **2017**, 246, 325-331 6 6

33 Charge storage at the nanoscale: understanding the trends from the molecular scale perspective. *Journal of Materials Chemistry A*, **2017**, 5, 21049-21076 13 39

32 Structure of electric double layers in capacitive systems and to what extent (classical) density functional theory describes it. *Journal of Physics Condensed Matter*, **2017**, 29, 423002 1.8 27

31 Ferroelectric Phase Behaviors in Porous Electrodes. *Langmuir*, **2017**, 33, 11574-11581 4 1

30 Underscreening, overscreening and double-layer capacitance. *Electrochemistry Communications*, **2017**, 82, 129-133 5.1 58

29 Theoretical study of the effect of π - π association in imidazolium ionic liquids at charged interfaces. *Physical Review E*, **2017**, 96, 062609 2.4 3

28 On the thickness of the double layer in ionic liquids. *Physical Chemistry Chemical Physics*, **2018**, 20, 10275-10285 3.1 27

27 Density functional theory of confined ionic liquids: A survey of the effects of ion type, molecular charge distribution, and surface adsorption. *Journal of Chemical Physics*, **2019**, 150, 184502 3.9 12

26 Mechanistic investigation of molecular geometry, intermolecular interactions and spectroscopic properties of pyridinium nitrate. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 219, 53-67 4.4 10

25 Simulation Study of the Capacitance and Charging Mechanisms of Ionic Liquid Mixtures near Carbon Electrodes. *Journal of Physical Chemistry C*, **2019**, 123, 1610-1618 3.8 21

24 Grand canonical simulations of ions between charged conducting surfaces using exact 3D Ewald summations. *Physical Chemistry Chemical Physics*, **2020**, 22, 13659-13665 3.6 3

23 Theoretical Insights into the Structures and Capacitive Performances of Confined Ionic Liquids. *Polymers*, **2020**, 12, 4.5 2

22 Chain length matters: Structural transition and capacitance of room temperature ionic liquids in nanoporous electrodes. *Chemical Engineering Science*, **2020**, 227, 115927 4.4 10

21 Electrostatic contribution to colloidal solvation in terms of the self-energy-modified Boltzmann distribution. *Physical Review E*, **2020**, 101, 012121 2.4 2

20	Curvature effects on electric-double-layer capacitance. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 31, 145-152	3.2	3
19	Chemical reactivity of the ionic liquid tris(2-amino-1,3-thiazolium) hydrogen sulfate sulfate monohydrate (TAHSSM) and surface effects in the TAHSSM/ γ -Al ₂ O ₃ system. <i>Journal of Molecular Liquids</i> , 2021 , 323, 114634	6	4
18	Encyclopedia of Ionic Liquids. 2021 , 1-13		2
17	Structural transitions at electrodes, immersed in simple ionic liquid models. <i>Soft Matter</i> , 2021 , 17, 3876-3885	3.8	2
16	Ionic liquid-metal interface: The origins of capacitance peaks. <i>Electrochimica Acta</i> , 2021 , 379, 138148	6.7	6
15	From Water Solutions to Ionic Liquids with Solid State Nanopores as a Perspective to Study Transport and Translocation Phenomena. <i>Small</i> , 2021 , 17, e2100777	11	4
14	Experimental and Computational Study of Lithium Salt-/Plastic Crystal-Assisted Ionogels. <i>Arabian Journal for Science and Engineering</i> , 1	2.5	0
13	Capacitance and Structure of Electric Double Layers: Comparing Brownian Dynamics and Classical Density Functional Theory. <i>Journal of Solution Chemistry</i> , 1	1.8	6
12	Theory of Ionic Liquids with Polarizable Ions on a Charged Electrode. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 21151-21159	3.8	6
11	Density functional theory of confined ionic liquids: the influence of power-law attractions on molecule distributions and surface forces.. <i>RSC Advances</i> , 2021 , 11, 17498-17513	3.7	0
10	Modelling biocompatible ionic liquids based on organic acids and amino acids: challenges for computational models and future perspectives. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 4002-4013	3.9	4
9	A semi-GCMC simulation study of electrolytic capacitors with adsorbed titrating peptides. <i>Journal of Chemical Physics</i> , 2020 , 153, 174703	3.9	2
8	Pushing the boundaries of lithium battery research with atomistic modelling on different scales. <i>Progress in Energy</i> ,	7.7	2
7	Electrochemistry meets polymer physics: polymerized ionic liquids on an electrified electrode.. <i>Physical Chemistry Chemical Physics</i> , 2021 ,	3.6	1
6	Electric double layer theory for room temperature ionic liquids on charged electrodes: Milestones and prospects. <i>Current Opinion in Electrochemistry</i> , 2022 , 33, 100931	7.2	1
5	Understanding the Electric Double-Layer Structure, Capacitance, and Charging Dynamics. <i>Chemical Reviews</i> ,	68.1	14
4	Atomistic modelling approaches to understanding the interfaces of ionic liquid electrolytes for batteries and electrochemical devices. <i>Current Opinion in Electrochemistry</i> , 2022 , 101086	7.2	2
3	Effective electrostatic forces between two neutral surfaces with surface charge separation: valence asymmetry and dielectric constant heterogeneity. <i>Molecular Physics</i> ,	1.7	0

- 2 Cracking Ion Pairs in the Electrical Double Layer of Ionic Liquids. **2022**, 141163
- 1 Mean-Field Theory of the Electrical Double Layer in Ionic Liquids. **2022**, 837-850