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## Diffuse-charge dynamics of ionic liquids in electrochemical systems

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#	Paper	IF	Citations
36	Effects of transducer size on impedance spectroscopy measurements. <i>Physical Review E</i> , <b>2012</b> , 85, 051505	4.4	3
35	Simulations of Cyclic Voltammetry for Electric Double Layers in Asymmetric Electrolytes: A Generalized Modified Poisson-Nernst-Planck Model. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 18286-18297	3.8	69
34	Direct observation of ion distributions near electrodes in ionic polymer actuators containing ionic liquids. <i>Scientific Reports</i> , <b>2013</b> , 3, 973	4.9	39
33	Structural Origins of Potential Dependent Hysteresis at the Electrified Graphene/Ionic Liquid Interface. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 569-574	3.8	96
32	Transition from non-monotonic to monotonic electrical diffuse layers: impact of confinement on ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2836-41	3.6	25
31	Theory for Anomalous Electric Double-Layer Dynamics in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 8766-8774	3.8	21
30	Spatial Structure of Electrical Diffuse Layers in Highly Concentrated Electrolytes: A Modified Poisson-Nernst-Planck Approach. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 5716-5724	3.8	26
29	Dynamics of electrical double layer formation in room-temperature ionic liquids under constant-current charging conditions. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 284109	1.8	22
28	Time-dependent density functional theory for ion diffusion in electrochemical systems. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 284102	1.8	37
27	Dynamics of Ion Transport in Ionic Liquids. <i>Physical Review Letters</i> , <b>2015</b> , 115, 106101	7.4	44
26	Recent Advances in Continuum Modeling of Interfacial and Transport Phenomena in Electric Double Layer Capacitors. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A5158-A5178	3.9	80
25	Electret-based microfluidic power generator for harvesting vibrational energy by using ionic liquids. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 1299-1307	2.8	13
24	Coupling Bulk and Near-Electrode Interfacial Nanostructuring in Ionic Liquids. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4169-4179	9.6	24
23	Effects of electrostatic correlations on ion dynamics in alternating current voltages. <i>Electrochimica Acta</i> , <b>2015</b> , 152, 84-92	6.7	8
22	Thermal effects of asymmetric electrolytes in electric double layer capacitors. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 196-209	8.9	30
21	Application-oriented simplification of actuation mechanism and physical model for ionic polymer-metal composites. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 034901	2.5	13
20	Brief overview of electrochemical potential in lithium ion batteries. <i>Chinese Physics B</i> , <b>2016</b> , 25, 018210	1.2	49

19	Simulation of diffuse-charge capacitance in electric double layer capacitors. <i>Modern Physics Letters B</i> , <b>2017</b> , 31, 1650431	1.6	1
18	Ultraslow Dynamics at a Charged Silicon/ionic Liquid Interface Revealed by X-ray Reflectivity. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3841-3845	3.8	30
17	Continuous Separation of DNA Molecules by Size Using Insulator-Based Dielectrophoresis. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1531-1539	7.8	49
16	On the Impact of Electrostatic Correlations on the Double-Layer Polarization of a Spherical Particle in an Alternating Current Field. <i>Langmuir</i> , <b>2018</b> , 34, 5592-5599	4	5
15	Role of Stefan-Maxwell fluxes in the dynamics of concentrated electrolytes. <i>Soft Matter</i> , <b>2018</b> , 14, 8267-8275	3.75	15
14	Effect of an external electric field on the dynamics and intramolecular structures of ions in an ionic liquid. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 164503	3.9	9
13	Exchange Process in the Dielectric Loss of Molecular and Macromolecular Ionic Conductors in the Interfacial Layers Formed by Electrode Polarization Effects. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 8532-8542	3.4	2
12	Controlling the interfacial and bulk concentrations of spontaneously charged colloids in non-polar media. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 227, 2603-2616	2.3	0
11	Ion-vacancy coupled charge transfer model for ion transport in concentrated solutions. <i>Science China Chemistry</i> , <b>2019</b> , 62, 515-520	7.9	7
10	Understanding Dynamics of Electrochemical Double Layers via a Modified Concentrated Solution Theory. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 013519	3.9	10
9	Moisture-Enabled Electricity Generation: From Physics and Materials to Self-Powered Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003722	24	46
8	Interfacial Layering in the Electric Double Layer of Ionic Liquids. <i>Physical Review Letters</i> , <b>2020</b> , 125, 116001	14	25
7	Continuum Theory of Electrostatic Correlations at Charged Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 11414-11421	3.8	22
6	Multi-ionic effects on the equilibrium and dynamic properties of electric double layers based on the Bikerman correction. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 880, 114923	4.1	2
5	Surface Charge Density in Electrical Double Layer Capacitors with Nanoscale Cathode-Anode Separation. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 625-636	3.4	8
4	Research progress of imaging technologies based on electromagnetic metasurfaces. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2017</b> , 66, 144208	0.6	4
3	IPMC Actuation Mechanisms and Multi-physical Modeling. <b>2019</b> , 455-502		
2	Localized X-ray photoelectron impedance spectroscopy (LoXPIS) for capturing charge dynamics of an ionic liquid electrolyte within an energy storage device.. <i>Faraday Discussions</i> , <b>2022</b> ,	3.6	1

- 1 Understanding the Electric Double-Layer Structure, Capacitance, and Charging Dynamics. *Chemical Reviews*, 68.1 14