

## List of Publications by Citations

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

112 papers	4,874 citations	37 h-index	67 g-index
120 ext. papers	5,829 ext. citations	8.8 avg, IF	5.93 L-index

#	Paper	IF	Citations
112	Supercapacitor Capacitance Exhibits Oscillatory Behavior as a Function of Nanopore Size. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 2859-2864	6.4	263
111	Molecular understanding of charge storage and charging dynamics in supercapacitors with MOF electrodes and ionic liquid electrolytes. <i>Nature Materials</i> , <b>2020</b> , 19, 552-558	27	208
110	Rapid mass production of two-dimensional metal oxides and hydroxides via the molten salts method. <i>Nature Communications</i> , <b>2017</b> , 8, 15630	17.4	190
109	Single-Crystalline Ultrathin Nickel Nanosheets Array from In Situ Topotactic Reduction for Active and Stable Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 693-7	16.4	182
108	Densely Populated Isolated Single Co <sup>2+</sup> Site for Efficient Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900149	21.8	179
107	Graphitization as a Universal Tool to Tailor the Potential-Dependent Capacitance of Carbon Supercapacitors. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400316	21.8	168
106	Microstructure and Capacitance of the Electrical Double Layers at the Interface of Ionic Liquids and Planar Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4549-4559	3.8	167
105	The importance of ion size and electrode curvature on electrical double layers in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 1152-61	3.6	151
104	Ion distribution in electrified micropores and its role in the anomalous enhancement of capacitance. <i>ACS Nano</i> , <b>2010</b> , 4, 2382-90	16.7	150
103	Nanoscale perturbations of room temperature ionic liquid structure at charged and uncharged interfaces. <i>ACS Nano</i> , <b>2012</b> , 6, 9818-27	16.7	137
102	Wearable Thermocells Based on Gel Electrolytes for the Utilization of Body Heat. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12050-3	16.4	132
101	Aqueous thermogalvanic cells with a high Seebeck coefficient for low-grade heat harvest. <i>Nature Communications</i> , <b>2018</b> , 9, 5146	17.4	123
100	Water in ionic liquids at electrified interfaces: the anatomy of electrosorption. <i>ACS Nano</i> , <b>2014</b> , 8, 11685-94	16.7	119
99	Bias-dependent molecular-level structure of electrical double layer in ionic liquid on graphite. <i>Nano Letters</i> , <b>2013</b> , 13, 5954-60	11.5	117
98	Molecular Insights into Carbon Supercapacitors Based on Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3367-3376	6.4	112
97	Induced Potential in Porous Carbon Films through Water Vapor Absorption. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8003-7	16.4	104
96	Curvature Effect on the Capacitance of Electric Double Layers at Ionic Liquid/Onion-Like Carbon Interfaces. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 1058-63	6.4	104

95	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
94	Mean-Field Theory of Electrical Double Layer In Ionic Liquids with Account of Short-Range Correlations. <i>Electrochimica Acta</i> , <b>2017</b> , 225, 190-197	6.7	93
93	Structure and dynamics of electrical double layers in organic electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5468-79	3.6	84
92	A "counter-charge layer in generalized solvents" framework for electrical double layers in neat and hybrid ionic liquid electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 14723-34	3.6	75
91	Atmospheric-Pressure Synthesis of 2D Nitrogen-Rich Tungsten Nitride. <i>Advanced Materials</i> , <b>2018</b> , 30, e1805655	24	69
90	Molecular Insights into Carbon Nanotube Supercapacitors: Capacitance Independent of Voltage and Temperature. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9178-9186	3.8	60
89	Interfacial ionic 'liquids': connecting static and dynamic structures. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 032101	1.8	57
88	Three-dimensional porous superaerophobic nickel nanoflower electrodes for high-performance hydrazine oxidation. <i>Nano Research</i> , <b>2015</b> , 8, 3365-3371	10	55
87	Dynamic and structural properties of room-temperature ionic liquids near silica and carbon surfaces. <i>Langmuir</i> , <b>2013</b> , 29, 9744-9	4	55
86	Distinctive Nanoscale Organization of Dicationic versus Monocationic Ionic Liquids. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 18251-18257	3.8	55
85	Minimizing the electrosorption of water from humid ionic liquids on electrodes. <i>Nature Communications</i> , <b>2018</b> , 9, 5222	17.4	54
84	Electricity generation from water droplets via capillary infiltrating. <i>Nano Energy</i> , <b>2018</b> , 48, 211-216	17.1	53
83	Single-crystalline dendritic bimetallic and multimetallic nanocubes. <i>Chemical Science</i> , <b>2015</b> , 6, 7122-7129	9.4	51
82	On the temperature dependence of the double layer capacitance of ionic liquids. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 819, 347-358	4.1	49
81	Atomistic Insight on the Charging Energetics in Subnanometer Pore Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 18012-18016	3.8	48
80	Densification of Ionic Liquid Molecules within a Hierarchical Nanoporous Carbon Structure Revealed by Small-Angle Scattering and Molecular Dynamics Simulation. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1144-1153	9.6	47
79	In Situ Electrochemical Dilatometry of Onion-Like Carbon and Carbon Black. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, A1897-A1903	3.9	46
78	Synthesis of single crystalline two-dimensional transition-metal phosphides via a salt-templating method. <i>Nanoscale</i> , <b>2018</b> , 10, 6844-6849	7.7	43

77	Fundamental aspects of electric double layer force-distance measurements at liquid-solid interfaces using atomic force microscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 32389	4.9	40
76	The Electrical Double Layer of Dicationic Ionic Liquids at Onion-like Carbon Surface. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3901-3909	3.8	39
75	Free and Bound States of Ions in Ionic Liquids, Conductivity, and Underscreening Paradox. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	35
74	Molecular Dynamics Simulation Study of the Capacitive Performance of a Binary Mixture of Ionic Liquids near an Onion-like Carbon Electrode. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 2465-9	6.4	35
73	Effect of cation on diffusion coefficient of ionic liquids at onion-like carbon electrodes. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 284104	1.8	32
72	Topological defects in electric double layers of ionic liquids at carbon interfaces. <i>Nano Energy</i> , <b>2015</b> , 15, 737-745	17.1	31
71	Strain-Based In Situ Study of Anion and Cation Insertion into Porous Carbon Electrodes with Different Pore Sizes. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300683	21.8	31
70	Single-Crystalline Ultrathin Nickel Nanosheets Array from In Situ Topotactic Reduction for Active and Stable Electrocatalysis. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 703-707	3.6	31
69	Chainmail catalyst of ultrathin P-doped carbon shell-encapsulated nickel phosphides on graphene towards robust and efficient hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24107-24113	13	31
68	Wearable Thermocells Based on Gel Electrolytes for the Utilization of Body Heat. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12229-12232	3.6	30
67	DFT Study on the Hydrogen Evolution Reaction for Different Facets of Co <sub>2</sub> P. <i>ChemElectroChem</i> , <b>2019</b> , 6, 260-267	4.3	30
66	Interface between an Au(111) Surface and an Ionic Liquid: The Influence of Water on the Double-Layer Capacitance. <i>ChemElectroChem</i> , <b>2017</b> , 4, 216-220	4.3	30
65	Topotactic reduction of layered double hydroxides for atomically thick two-dimensional non-noble-metal alloy. <i>Nano Research</i> , <b>2017</b> , 10, 2988-2997	10	29
64	Ion Structure Transition Enhances Charging Dynamics in Subnanometer Pores. <i>ACS Nano</i> , <b>2020</b> , 14, 2395-2403	14.7	29
63	Molecular dynamics study of interfacial properties in CO <sub>2</sub> enhanced oil recovery. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 467, 25-32	2.5	29
62	Toward understanding the structural heterogeneity and ion pair stability in dicationic ionic liquids. <i>Soft Matter</i> , <b>2014</b> , 10, 9193-200	3.6	27
61	Water-in-salt electrolytes: An interfacial perspective. <i>Current Opinion in Colloid and Interface Science</i> , <b>2020</b> , 47, 99-110	7.6	27
60	Coordination of the electrical and optical signals revealing nanochannels with an Onion-like Carbon Electrode. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e234-e234	10.3	26

59	Regulation of SEI Formation by Anion Receptors to Achieve Ultra-Stable Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19232-19240	16.4	26
58	Asymmetric Behavior of Positive and Negative Electrodes in Carbon/Carbon Supercapacitors and Its Underlying Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24675-24681	3.8	25
57	Capacitive deionization in organic solutions: case study using propylene carbonate. <i>RSC Advances</i> , <b>2016</b> , 6, 5865-5870	3.7	24
56	Interfaces of dicationic ionic liquids and graphene: a molecular dynamics simulation study. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 284106	1.8	24
55	Permselective ion electrosorption of subnanometer pores at high molar strength enables capacitive deionization of saline water. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1285-1295	5.8	23
54	Adding salt to expand voltage window of humid ionic liquids. <i>Nature Communications</i> , <b>2020</b> , 11, 5809	17.4	23
53	Liquid-state thermocells: Opportunities and challenges for low-grade heat harvesting. <i>Joule</i> , <b>2021</b> , 5, 768-779	27.8	23
52	The influence of a hierarchical porous carbon network on the coherent dynamics of a nanoconfined room temperature ionic liquid: A neutron spin echo and atomistic simulation investigation. <i>Carbon</i> , <b>2014</b> , 78, 415-427	10.4	21
51	Microstructure of room temperature ionic liquids at stepped graphite electrodes. <i>AIChE Journal</i> , <b>2015</b> , 61, 3022-3028	3.6	21
50	Spatially controlled synthesis of superlattice-like SnS/nitrogen-doped graphene hybrid nanobelts as high-rate and durable anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27475-27483	13	21
49	Role of Electrical Double Layer Structure in Ionic Liquid Gated Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 40949-40958	9.5	20
48	Enhanced performance of dicationic ionic liquid electrolytes by organic solvents. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 284105	1.8	20
47	Systematic comparison of force fields for molecular dynamic simulation of Au(111)/Ionic liquid interfaces. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 463, 106-113	2.5	19
46	A computational study of dicationic ionic liquids/CO <sub>2</sub> interfaces. <i>Langmuir</i> , <b>2015</b> , 31, 2447-54	4	19
45	Computational Insights into Charge Storage Mechanisms of Supercapacitors. <i>Energy and Environmental Materials</i> , <b>2020</b> , 3, 235-246	13	19
44	Molecular dynamics study of room temperature ionic liquids with water at mica surface. <i>Green Energy and Environment</i> , <b>2018</b> , 3, 120-128	5.7	19
43	Capacitive performance of amino acid ionic liquid electrolyte-based supercapacitors by molecular dynamics simulation. <i>RSC Advances</i> , <b>2017</b> , 7, 28945-28950	3.7	17
42	A Stirred Self-Stratified Battery for Large-Scale Energy Storage. <i>Joule</i> , <b>2020</b> , 4, 953-966	27.8	17

41	Structure and charging kinetics of electrical double layers at large electrode voltages. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 8, 703-708	2.8	17
40	Understanding Electric Double-Layer Gating Based on Ionic Liquids: from Nanoscale to Macroscale. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43211-43218	9.5	16
39	Hysteretic order-disorder transitions of ionic liquid double layer structure on graphite. <i>Nano Energy</i> , <b>2019</b> , 60, 886-893	17.1	15
38	In Situ Tracking of Partial Sodium Desolvation of Materials with Capacitive, Pseudocapacitive, and Battery-like Charge/Discharge Behavior in Aqueous Electrolytes. <i>Langmuir</i> , <b>2018</b> , 34, 13132-13143	4	15
37	Aqueous interphase formed by CO brings electrolytes back to salt-in-water regime. <i>Nature Chemistry</i> , <b>2021</b> , 13, 1061-1069	17.6	14
36	The effects of dication symmetry on ionic liquid electrolytes in supercapacitors. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 464005	1.8	14
35	The Influence of Anion Shape on the Electrical Double Layer Microstructure and Capacitance of Ionic Liquids-Based Supercapacitors by Molecular Simulations. <i>Molecules</i> , <b>2017</b> , 22,	4.8	10
34	Mechanistic modeling study of atomic layer deposition process optimization in a fluidized bed reactor. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 01B102	2.9	9
33	Enforced Freedom: Electric-Field-Induced Declustering of Ionic-Liquid Ions in the Electrical Double Layer. <i>Energy and Environmental Materials</i> , <b>2020</b> , 3, 414-420	13	8
32	Molecular dynamics simulation to estimate minimum miscibility pressure for oil with pure and impure CO <sub>2</sub> . <i>Journal of Physics Communications</i> , <b>2018</b> , 2, 115028	1.2	8
31	Hydration shell energy barrier differences of sub-nanometer carbon pores enable ion sieving and selective ion removal. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129438	14.7	8
30	Induced Potential in Porous Carbon Films through Water Vapor Absorption. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 8135-8139	3.6	7
29	Modeling galvanostatic charge/discharge of nanoporous supercapacitors. <i>Nature Computational Science</i> , <b>2021</b> , 1, 725-731		7
28	Molecular Understanding of Charge Storage in MoS <sub>2</sub> Supercapacitors with Ionic Liquids. <i>Energy and Environmental Materials</i> , <b>2021</b> ,	13	7
27	Conductive Metal-Organic Frameworks for Supercapacitors.. <i>Advanced Materials</i> , <b>2022</b> , e2200999	24	7
26	Stabilization of layered manganese oxide by substitutional cation doping. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7118-7127	13	6
25	Transient analysis and process optimization of the spatial atomic layer deposition using the dynamic mesh method. <i>Chemical Engineering Science</i> , <b>2020</b> , 217, 115513	4.4	6
24	Modern Theories of Carbon-Based Electrochemical Capacitors <b>2013</b> , 167-206		6

23	Effect of Pore Size on the Ion Electrosorption and Hydrogen/Deuterium Electrosorption Using Sodium Chloride in H <sub>2</sub> O and D <sub>2</sub> O. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A4158-A4167	3.9	6
22	Inhibiting Dendrite Growth via Regulating the Electrified Interface for Fast-Charging Lithium Metal Anode.. <i>ACS Central Science</i> , <b>2021</b> , 7, 2029-2038	16.8	5
21	Low-Temperature Charging Dynamics of the Ionic Liquid and Its Gating Effect on FeSeTe Superconducting Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 17979-17986	9.5	4
20	Molecular Insight into Microbehaviors of n-Decane and CO <sub>2</sub> in Mineral Nanopores. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 2925-2935	4.1	4
19	Electrical Double Layer of Linear Tricationic Ionic Liquids at Graphite Electrode. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 15723-15729	3.8	4
18	Symmetrizing cathode-anode response to speed up charging of nanoporous supercapacitors. <i>Green Energy and Environment</i> , <b>2021</b> ,	5.7	4
17	Adding Solvent into Ionic Liquid-Gated Transistor: The Anatomy of Enhanced Gating Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 13822-13830	9.5	3
16	N-doped interconnected carbon sheets for energy storage application. <i>Materials Research Bulletin</i> , <b>2016</b> , 84, 350-354	5.1	3
15	Regulation of SEI Formation by Anion Receptors to Achieve Ultra-Stable Lithium-Metal Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19381-19389	3.6	3
14	Progress on predicting the electrochemical stability window of electrolytes. <i>Current Opinion in Electrochemistry</i> , <b>2022</b> , 101030	7.2	3
13	Modern Theories of Carbon-Based Electrochemical Capacitors: A Short Review <b>2010</b> ,		2
12	Ionophobicity of carbon sub-nanometer pores enables efficient desalination at high salinity. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100689	6.1	2
11	Charge Transfer Kinetics at Ag(111) Single Crystal Electrode/Ionic Liquid Interfaces: Dependence on the Cation Alkyl Side Chain Length. <i>ChemElectroChem</i> , <b>2021</b> , 8, 983-990	4.3	2
10	Molecular simulation study of dynamical properties of room temperature ionic liquids with carbon pieces. <i>Science China Chemistry</i> , <b>2016</b> , 59, 594-600	7.9	2
9	Molecular insight into replacement dynamics of CO <sub>2</sub> enhanced oil recovery in nanopores. <i>Chemical Engineering Journal</i> , <b>2022</b> , 440, 135796	14.7	2
8	Molecular insight into structures of monocationic and dicationic ionic liquids in mica slits. <i>Molecular Physics</i> , <b>2019</b> , 117, 3957-3967	1.7	1
7	Computational modeling of carbon nanostructures for energy storage applications <b>2010</b> ,		1
6	Molecular insight into oil displacement by CO <sub>2</sub> flooding on rough silica surface. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 181, 105507	4.2	1

- 5 Mechanistic Study of Forming Either Cyclic or Linear Sulfur-Clusters from Thermal Decomposition of Thiourea Under Two Distinct Conditions. *European Journal of Organic Chemistry*, **2019**, 2019, 598-604 3.2 1
- 4 Time-Dependent Cation Selectivity of Titanium Carbide MXene in Aqueous Solution. *Advanced Sustainable Systems*, 2100383 5.9 0
- 3 Regulating interfacial structure enables high-voltage dilute ether electrolytes. *Cell Reports Physical Science*, **2022**, 100919 6.1 0
- 2 Integrated Experimental and Computational Studies of Energy-relevant Interfaces. *Physics Procedia*, **2014**, 53, 32-38
- 1 Modeling of Supercapacitors **2015**, 2282-2289