

# Sheng Bi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1823066/publications.pdf>

Version: 2024-02-01

18  
papers

1,075  
citations

623574

14  
h-index

839398

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

1217  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular understanding of charge storage and charging dynamics in supercapacitors with MOF electrodes and ionic liquid electrolytes. <i>Nature Materials</i> , 2020, 19, 552-558.	13.3	405
2	Conductive Metal-Organic Frameworks for Supercapacitors. <i>Advanced Materials</i> , 2022, 34, e2200999.	11.1	101
3	Minimizing the electrosorption of water from humid ionic liquids on electrodes. <i>Nature Communications</i> , 2018, 9, 5222.	5.8	96
4	Regulation of SEI Formation by Anion Receptors to Achieve Ultra-Stable Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19232-19240.	7.2	66
5	Adding salt to expand voltage window of humid ionic liquids. <i>Nature Communications</i> , 2020, 11, 5809.	5.8	60
6	Free and Bound States of Ions in Ionic Liquids, Conductivity, and Underscreening Paradox. <i>Physical Review X</i> , 2019, 9, .	2.8	54
7	Ion Structure Transition Enhances Charging Dynamics in Subnanometer Pores. <i>ACS Nano</i> , 2020, 14, 2395-2403.	7.3	52
8	Theory of ion aggregation and gelation in super-concentrated electrolytes. <i>Journal of Chemical Physics</i> , 2020, 152, 234506.	1.2	49
9	Permselective ion electrosorption of subnanometer pores at high molar strength enables capacitive deionization of saline water. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1285-1295.	2.5	34
10	Ion Clusters and Networks in Water-in-Salt Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 050514.	1.3	31
11	Role of Electrical Double Layer Structure in Ionic Liquid Gated Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40949-40958.	4.0	24
12	Systematic comparison of force fields for molecular dynamic simulation of Au(111)/Ionic liquid interfaces. <i>Fluid Phase Equilibria</i> , 2018, 463, 106-113.	1.4	23
13	Understanding Electric Double-Layer Gating Based on Ionic Liquids: from Nanoscale to Macroscale. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43211-43218.	4.0	21
14	Pore-Size-Dependent Capacitance and Charging Dynamics of Nanoporous Carbons in Aqueous Electrolytes. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6854-6862.	1.5	17
15	Regulation of SEI Formation by Anion Receptors to Achieve Ultra-Stable Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 19381-19389.	1.6	13
16	MnO <sub>2</sub> /carbon nanotube free-standing electrode recycled from spent manganese-oxygen battery as high-performance supercapacitor material. <i>Journal of Materials Science</i> , 2022, 57, 8818-8827.	1.7	11
17	Low-Temperature Charging Dynamics of the Ionic Liquid and Its Gating Effect on FeSe <sub>0.5</sub> Te <sub>0.5</sub> Superconducting Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17979-17986.	4.0	10
18	Adding Solvent into Ionic Liquid-Gated Transistor: The Anatomy of Enhanced Gating Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13822-13830.	4.0	8