Shu-Feng Song

List of Publications by Year
in descending order

39 papers	2,263 citations	304743 22 h-index	302126 39 g-index
40 all docs	40 docs citations	40 times ranked	2981 citing authors

#	Article	IF	Citations
1	Hybrid poly-ether/carbonate ester electrolyte engineering enables high oxidative stability for quasi-solid-state lithium metal batteries. Materials Today Energy, 2022, 23, 100893.	4.7	24
2	Lithium metal structural battery developed with vacuum bagging. Journal of Materials Chemistry C, 2022, 10, 1887-1895.	5.5	7
3	Short carbon fiber reinforced epoxy-ionic liquid electrolyte enabled structural battery via vacuum bagging process. Advanced Composites and Hybrid Materials, 2022, 5, 1799-1811.	21.1	27
4	A hybrid solid electrolyte for high-energy solid-state sodium metal batteries. Applied Physics Letters, 2022, 120, .	3.3	10
5	Gallium-substituted Nasicon Na3Zr2Si2PO12 solid electrolytes. Journal of Alloys and Compounds, 2021, 855, 157501.	5.5	20
6	Synthesis and properties of poly(1,3-dioxolane) <i>in situ</i> quasi-solid-state electrolytes <i>via</i> a rare-earth triflate catalyst. Chemical Communications, 2021, 57, 7934-7937.	4.1	39
7	A facile method for the synthesis of a sintering dense nano-grained Na₃Zr₂Si₂PO₁₂ Na⁺-ion solid-state electrolyte. Chemical Communications, 2021, 57, 4023-4026.	4.1	26
8	High-Strength Poly(ethylene oxide) Composite Electrolyte Reinforced with Glass Fiber and Ceramic Electrolyte Simultaneously for Structural Energy Storage. ACS Applied Energy Materials, 2021, 4, 4038-4049.	5.1	19
9	Editorial: Solid-state electrolytes and solid-state batteries for next-generation energy storage. Functional Materials Letters, 2021, 14, 2102001.	1.2	1
10	A composite electrolyte with Na3Zr2Si2PO12 microtube for solid-state sodium-metal batteries. Ceramics International, 2021, 47, 11156-11168.	4.8	13
11	Composite Hybrid Quasi-Solid Electrolyte for High-Energy Lithium Metal Batteries. ACS Applied Energy Materials, 2021, 4, 7973-7982.	5.1	30
12	Multi-substituted garnet-type electrolytes for solid-state lithium batteries. Ceramics International, 2020, 46, 5489-5494.	4.8	18
13	Ultrathin, dense, hybrid polymer/ceramic gel electrolyte for high energy lithium metal batteries. Materials Letters, 2020, 279, 128480.	2.6	4
14	Ultrathin, Compacted Gel Polymer Electrolytes Enable Highâ€Energy and Stableâ€Cycling 4â€…V Lithiumâ€Metal Batteries. ChemElectroChem, 2020, 7, 3656-3662.	3.4	5
15	Flexible electrochemical energy storage: The role of composite materials. Composites Science and Technology, 2020, 192, 108102.	7.8	82
16	LLZO@EmimFSI@PEO derived hybrid solid electrolyte for high-energy lithium metal batteries. Materials Technology, 2020, 35, 618-624.	3.0	13
17	Preparation of Nanocomposite Polymer Electrolyte via In Situ Synthesis of SiO2 Nanoparticles in PEO. Nanomaterials, 2020, 10, 157.	4.1	32
18	Conformal, nanoscale Î^{3}-Al2O3 coating of garnet conductors for solid-state lithium batteries. Solid State Ionics, 2019, 342, 115063.	2.7	15

#	Article	IF	Citations
19	Dual Substitution and Spark Plasma Sintering to Improve Ionic Conductivity of Garnet Li7La3Zr2O12. Nanomaterials, 2019, 9, 721.	4.1	13
20	Preparation of thin solid electrolyte by hot-pressing and diamond wire slicing. RSC Advances, 2019, 9, 11670-11675.	3.6	25
21	Composite Solid Polymer Electrolyte with Garnet Nanosheets in Poly(ethylene oxide). ACS Sustainable Chemistry and Engineering, 2019, 7, 7163-7170.	6.7	131
22	Review on solid electrolytes for all-solid-state lithium-ion batteries. Journal of Power Sources, 2018, 389, 198-213.	7.8	964
23	Lithium superionic conductors Li10MP₂O12 (M = Ge, Si). Functional Materials Letters, 2018, 11, 1850039.	1.2	17
24	Fabricating 3D Macroscopic Graphene-Based Architectures with Outstanding Flexibility by the Novel Liquid Drop/Colloid Flocculation Approach for Energy Storage Applications. ACS Applied Materials & Interfaces, 2018, 10, 21991-22001.	8.0	12
25	Al conductive hybrid solid polymer electrolyte. Solid State Ionics, 2017, 300, 165-168.	2.7	24
26	A hybrid polymer/oxide/ionic-liquid solid electrolyte for Na-metal batteries. Journal of Materials Chemistry A, 2017, 5, 6424-6431.	10.3	93
27	Y-Doped Na₂ZrO₃: A Na-Rich Layered Oxide as a High-Capacity Cathode Material for Sodium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2017, 5, 4785-4792.	6.7	36
28	Construction of 3D CoO Quantum Dots/Graphene Hydrogels as Binder-Free Electrodes for Ultra-high Rate Energy Storage Applications. Electrochimica Acta, 2017, 243, 152-161.	5.2	32
29	Roles of Alkaline Earth Ions in Garnetâ€Type Superionic Conductors. ChemElectroChem, 2017, 4, 266-271.	3.4	23
30	Na-rich layered Na2Ti1âˆ’xCrxO3âˆ’x/2 (xâ€‰=â€‰0, 0.06): Na-ion battery cathode materials with high capacity and long cycle life. Scientific Reports, 2017, 7, 373.	3.3	25
31	Improvement of Li ion conductivity of Li 5 La 3 Ta 2 O 12 solid electrolyte by substitution of Ge for Ta. Journal of Power Sources, 2017, 349, 105-110.	7.8	37
32	Na-rich layered Na2Ru0.95Zr0.05O3 cathode material for Na-ion batteries. Journal of Power Sources, 2017, 342, 685-689.	7.8	28
33	Application of sodium-ion-based solid electrolyte in electrostatic tuning of carrier density in graphene. Scientific Reports, 2017, 7, 3168.	3.3	13
34	Rapid Evaporation of Water on Graphene/Graphene-Oxide: A Molecular Dynamics Study. Nanomaterials, 2017, 7, 265.	4.1	78
35	A Na+ Superionic Conductor for Room-Temperature Sodium Batteries. Scientific Reports, 2016, 6, 32330.	3.3	160
36	Communicationâ€"Poly(ethylene oxide)-Immobilized Ionogel with High Ionic Liquid Loading and Superior Ionic Conductivity. Journal of the Electrochemical Society, 2016, 163, A2887-A2889.	2.9	22

#	Article	IF	Citations
37	High Li ion conductivity in a garnet-type solid electrolyte via unusual site occupation of the doping Ca ions. Materials and Design, 2016, 93, 232-237.	7.0	67
38	A facile strategy to achieve high conduction and excellent chemical stability of lithium solid electrolytes. RSC Advances, 2015, 5, 6588-6594.	3.6	28
39	Crystal structure, migration mechanism and electrochemical performance of Cr-stabilized garnet. Solid State Ionics, 2014, 268, 135-139.	2.7	50