Shanmu Dong

List of Publications by Year
in descending order

57 papers	4,872 citations	109264 35 h-index	138417 58 g-index
59 all docs	59 docs citations	59 times ranked	4767 citing authors

#	Article	IF	Citations
1	All solid-state polymer electrolytes for high-performance lithium ion batteries. Energy Storage Materials, 2016, 5, 139-164.	9.5	768
2	High-voltage and free-standing poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td (carbonate)/Li_{6.75}La<sub>3< composite solid electrolyte for wide temperature range and flexible solid lithium ion battery. Journal of Materials Chemistry A, 2017, 5, 4940-4948.	5.2	373
3	Novel Design Concepts of Efficient Mgâ€Ion Electrolytes toward Highâ€Performance Magnesiumâ€"Selenium and Magnesiumâ€"Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602055.	10.2	231
4	An efficient organic magnesium borate-based electrolyte with non-nucleophilic characteristics for magnesiumâ€"sulfur battery. Energy and Environmental Science, 2017, 10, 2616-2625.	15.6	227
5	Poly(ethyl Î±-cyanoacrylate)-Based Artificial Solid Electrolyte Interphase Layer for Enhanced Interface Stability of Li Metal Anodes. Chemistry of Materials, 2017, 29, 4682-4689.	3.2	189
6	In-situ visualization of the space-charge-layer effect on interfacial lithium-ion transport in all-solid-state batteries. Nature Communications, 2020, 11, 5889.	5.8	145
7	Nonflammable Nitrile Deep Eutectic Electrolyte Enables High-Voltage Lithium Metal Batteries. Chemistry of Materials, 2020, 32, 3405-3413.	3.2	145
8	Aliphatic Polycarbonateâ€Based Solidâ€State Polymer Electrolytes for Advanced Lithium Batteries: Advances and Perspective. Small, 2018, 14, e1800821.	5.2	131
9	Formulation of Blendedâ€Lithiumâ€Salt Electrolytes for Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 3400-3415.	7.2	129
10	A Stable Solid Electrolyte Interphase for Magnesium Metal Anode Evolved from a Bulky Anion Lithium Salt. Advanced Materials, 2020, 32, e1904987.	11.1	123
11	Integrated Interface Strategy toward Room Temperature Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2018, 10, 13588-13597.	4.0	110
12	Additiveâ€Assisted Novel Dualâ€Salt Electrolyte Addresses Wide Temperature Operation of Lithiumâ€"Metal Batteries. Small, 2019, 15, e1900269.	5.2	107
13	Uncovering the Potential of M1â€Siteâ€Activated NASICON Cathodes for Znâ€Ion Batteries. Advanced Materials, 2020, 32, e1907526.	11.1	103
14	Compatible interface design of CoO-based Li-O2 battery cathodes with long-cycling stability. Scientific Reports, 2015, 5, 8335.	1.6	102
15	A Bismuth-Based Protective Layer for Magnesium Metal Anode in Noncorrosive Electrolytes. ACS Energy Letters, 2021, 6, 2594-2601.	8.8	96
16	A Crosslinked Polytetrahydrofuranâ€Borateâ€Based Polymer Electrolyte Enabling Wideâ€Workingâ€Temperatureâ€Range Rechargeable Magnesium Batteries. Advanced Materials, 2019, 31, e1805930.	11.1	95
17	A Temperatureâ€Responsive Electrolyte Endowing Superior Safety Characteristic of Lithium Metal Batteries. Advanced Energy Materials, 2020, 10, 1903441.	10.2	95
18	A biomass based free radical scavenger binder endowing a compatible cathode interface for 5 V lithium-ion batteries. Energy and Environmental Science, 2019, 12, 273-280.	15.6	94

#	Article	IF	Citations
19	Current Design Strategies for Rechargeable Magnesium-Based Batteries. ACS Nano, 2021, 15, 15594-15624.	7.3	89
20	Self-Stabilized Solid Electrolyte Interface on a Host-Free Li-Metal Anode toward High Areal Capacity and Rate Utilization. Chemistry of Materials, 2018, 30, 4039-4047.	3.2	87
21	Dendriteâ€Free Lithium Deposition via Flexibleâ€Rigid Coupling Composite Network for LiNi_{0.5}Mn_{1.5}O₄/Li Metal Batteries. Small, 2018, 14, e1802244.	5.2	83
22	High Polymerization Conversion and Stable High-Voltage Chemistry Underpinning an In Situ Formed Solid Electrolyte. Chemistry of Materials, 2020, 32, 9167-9175.	3.2	81
23	Facile Design of Sulfideâ€Based all Solidâ€State Lithium Metal Battery: In Situ Polymerization within Selfâ€Supported Porous Argyrodite Skeleton. Advanced Functional Materials, 2021, 31, 2101523.	7.8	77
24	Electrodeposition of nanostructured cobalt selenide films towards high performance counter electrodes in dye-sensitized solar cells. RSC Advances, 2013, 3, 16528.	1.7	71
25	Selfâ€Established Rapid Magnesiation/Deâ€Magnesiation Pathways in Binary Seleniumâ€“Copper Mixtures with Significantly Enhanced Mgâ€Ion Storage Reversibility. Advanced Functional Materials, 2018, 28, 1701718.	7.8	71
26	Tracing the Impact of Hybrid Functional Additives on a High-Voltage (5 V-class) SiO_{<i>x</i>}-C/LiNi_{0.5}Mn_{1.5}O₄ Li-Ion Battery System. Chemistry of Materials, 2018, 30, 8291-8302.	3.2	70
27	Highly Reversible Cuprous Mediated Cathode Chemistry for Magnesium Batteries. Angewandte Chemie - International Edition, 2020, 59, 11477-11482.	7.2	67
28	Transition-metal nitride nanoparticles embedded in N-doped reduced graphene oxide: superior synergistic electrocatalytic materials for the counter electrodes of dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 3340.	5.2	60
29	The Formation/Decomposition Equilibrium of LiH and its Contribution on Anode Failure in Practical Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 7770-7776.	7.2	58
30	Uniform Magnesium Electrodeposition via Synergistic Coupling of Current Homogenization, Geometric Confinement, and Chemisorption Effect. Advanced Materials, 2021, 33, e2100224.	11.1	58
31	A promising bulky anion based lithium borate salt for lithium metal batteries. Chemical Science, 2018, 9, 3451-3458.	3.7	56
32	Insight into Enhanced Cycling Performance of Liâ€“O2 Batteries Based on Binary CoSe2/CoO Nanocomposite Electrodes. Journal of Physical Chemistry Letters, 2014, 5, 615-621.	2.1	52
33	Uncovering LiH Triggered Thermal Runaway Mechanism of a Highâ€Energy LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂/Graphite Pouch Cell. Advanced Science, 2021, 8, e2100676.	5.6	48
34	1D Coaxial Platinum/Titanium Nitride Nanotube Arrays with Enhanced Electrocatalytic Activity for the Oxygen Reduction Reaction: Towards Liâ€“Air Batteries. ChemSusChem, 2012, 5, 1712-1715.	3.6	40
35	A Novel Regulation Strategy of Solid Electrolyte Interphase Based on Anionâ€Solvent Coordination for Magnesium Metal Anode. Small, 2020, 16, e2005424.	5.2	39
36	Multifunctional Additives Improve the Electrolyte Properties of Magnesium Borohydride Toward Magnesiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 23757-23765.	4.0	38

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37	Bioinspired Antiaging Binder Additive Addressing the Challenge of Chemical Degradation of Electrolyte at Cathode/Electrolyte Interphase. Journal of the American Chemical Society, 2021, 143, 18041-18051.	6.6	38
38	Liâ€"O₂ Cell with LiI(3-hydroxypropionitrile)₂ as a Redox Mediator: Insight into the Working Mechanism of I^{â€"} during Charge in Anhydrous Systems. Journal of Physical Chemistry Letters, 2017, 8, 4218-4225.	2.1	35
39	Fluorescence Probing of Active Lithium Distribution in Lithium Metal Anodes. Angewandte Chemie - International Edition, 2019, 58, 5936-5940.	7.2	35
40	A Rational Design of Highâ€Performance Sandwichâ€Structured Quasisolid State Liâ€"O₂ Battery with Redox Mediator. Advanced Materials Interfaces, 2017, 4, 1700693.	1.9	34
41	Highly Fluorinated Al-Centered Lithium Salt Boosting the Interfacial Compatibility of Li-Metal Batteries. ACS Energy Letters, 2022, 7, 591-598.	8.8	34
42	Clarifying the Electroâ€Chemoâ€Mechanical Coupling in Li₁₀SnP₂S₁₂ based Allâ€Solidâ€State Batteries. Advanced Energy Materials, 2022, 12, .	10.2	33
43	Direct Observation of Ordered Oxygen Defects on the Atomic Scale in Li₂O₂ for Liâ€O₂ Batteries. Advanced Energy Materials, 2015, 5, 1400664.	10.2	32
44	Leakageâ€Proof Electrolyte Chemistry for a Highâ€Performance Lithiumâ€"Sulfur Battery. Angewandte Chemie - International Edition, 2021, 60, 16487-16491.	7.2	29
45	Chargeâ€Compensation in a Displacement Mg²⁺ Storage Cathode through Polyselenideâ€Mediated Anion Redox. Angewandte Chemie - International Edition, 2022, 61, .	7.2	27
46	Investigation of the cathodic interfacial stability of a nitrile electrolyte and its performance with a high-voltage LiCoO₂ cathode. Chemical Communications, 2020, 56, 4998-5001.	2.2	26
47	Epitaxial Electrocrystallization of Magnesium <i>via</i> Synergy of Magnesiophilic Interface, Lattice Matching, and Electrostatic Confinement. ACS Nano, 2022, 16, 9894-9907.	7.3	26
48	Iâ€containing Polymer/Alloy Layerâ€Based Li Anode Mediating Highâ€Performance Lithiumâ€"Air Batteries. Advanced Functional Materials, 2022, 32, 2108993.	7.8	20
49	Uncovering the critical impact of the solid electrolyte interphase structure on the interfacial stability. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	19
50	The Formation/Decomposition Equilibrium of LiH and its Contribution on Anode Failure in Practical Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 7849-7855.	1.6	18
51	Formulierung von Elektrolyten mit gemischten Lithiumsalzen fÃ¼r Lithiumâ€Batterien. Angewandte Chemie, 2020, 132, 3426-3442.	1.6	16
52	Facilitated magnesium atom adsorption and surface diffusion kinetics <i>via</i> artificial bismuth-based interphases. Chemical Communications, 2021, 57, 9430-9433.	2.2	15
53	Polymer Electrolytes â€" New Opportunities for the Development of Multivalent Ion Batteries. Chemistry - an Asian Journal, 2021, 16, 3272-3280.	1.7	10
54	Fluorescence Probing of Active Lithium Distribution in Lithium Metal Anodes. Angewandte Chemie, 2019, 131, 5997-6001.	1.6	8

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55	Low-cost, flexible graphene/polyaniline nanocomposite paper as binder-free high-performance supercapacitor electrode. Functional Materials Letters, 2014, 07, 1440010.	0.7	5
56	Chargeâ€Compensation in a Displacement Mg²⁺ Storage Cathode through Polyselenideâ€Mediated Anion Redox. Angewandte Chemie, 2022, 134, .	1.6	1
57	Leakageâ€Proof Electrolyte Chemistry for a Highâ€Performance Lithiumâ€"Sulfur Battery. Angewandte Chemie, 2021, 133, 16623-16627.	1.6	0