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	Uncovering the critical impact of the solid electrolyte interphase structure on the interfacial stability. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	19
2	Iâ€containing Polymer/Alloy Layerâ€Based Li Anode Mediating Highâ€Performance Lithiumâ€“Air Batteries. Advanced Functional Materials, 2022, 32, 2108993.	7.8	20
3	Highly Fluorinated Al-Centered Lithium Salt Boosting the Interfacial Compatibility of Li-Metal Batteries. ACS Energy Letters, 2022, 7, 591-598.	8.8	34
4	Clarifying the Electroâ€Chemoâ€Mechanical Coupling in Li₁₀SnP₂S₁₂ based Allâ€Solidâ€State Batteries. Advanced Energy Materials, 2022, 12, .	10.2	33
5	Chargeâ€Compensation in a Displacement Mg²⁺ Storage Cathode through Polyselenideâ€Mediated Anion Redox. Angewandte Chemie - International Edition, 2022, 61, .	7.2	27
6	Chargeâ€Compensation in a Displacement Mg²⁺ Storage Cathode through Polyselenideâ€Mediated Anion Redox. Angewandte Chemie, 2022, 134, .	1.6	1
7	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
8	Facilitated magnesium atom adsorption and surface diffusion kinetics <i>via</i> artificial bismuth-based interphases. Chemical Communications, 2021, 57, 9430-9433.	2.2	15
9	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
10	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
11	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
12	Uniform Magnesium Electrodeposition via Synergistic Coupling of Current Homogenization, Geometric Confinement, and Chemisorption Effect. Advanced Materials, 2021, 33, e2100224.	11.1	58
13	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
14	Leakageâ€Proof Electrolyte Chemistry for a Highâ€Performance Lithiumâ€“Sulfur Battery. Angewandte Chemie, 2021, 133, 16623-16627.	1.6	0
15	Leakageâ€Proof Electrolyte Chemistry for a Highâ€Performance Lithiumâ€“Sulfur Battery. Angewandte Chemie - International Edition, 2021, 60, 16487-16491.	7.2	29
16	A Bismuth-Based Protective Layer for Magnesium Metal Anode in Noncorrosive Electrolytes. ACS Energy Letters, 2021, 6, 2594-2601.	8.8	96
17	Polymer Electrolytes â€“ New Opportunities for the Development of Multivalent Ion Batteries. Chemistry - an Asian Journal, 2021, 16, 3272-3280.	1.7	10
18	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

#	ARTICLE	IF	CITATIONS
19	Current Design Strategies for Rechargeable Magnesium-Based Batteries. ACS Nano, 2021, 15, 15594-15624.	7.3	89
20	Formulierung von Elektrolyten mit gemischten Lithiumsalzen fÃ¼r Lithiumâ€Batterien. Angewandte Chemie, 2020, 132, 3426-3442.	1.6	16
21	Formulation of Blendedâ€Lithiumâ€Salt Electrolytes for Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 3400-3415.	7.2	129
22	A Stable Solid Electrolyte Interphase for Magnesium Metal Anode Evolved from a Bulky Anion Lithium Salt. Advanced Materials, 2020, 32, e1904987.	11.1	123
23	A Temperatureâ€Responsive Electrolyte Endowing Superior Safety Characteristic of Lithium Metal Batteries. Advanced Energy Materials, 2020, 10, 1903441.	10.2	95
24	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
25	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
26	A Novel Regulation Strategy of Solid Electrolyte Interphase Based on Anionâ€Solvent Coordination for Magnesium Metal Anode. Small, 2020, 16, e2005424.	5.2	39
27	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
28	Nonflammable Nitrile Deep Eutectic Electrolyte Enables High-Voltage Lithium Metal Batteries. Chemistry of Materials, 2020, 32, 3405-3413.	3.2	145
29	Uncovering the Potential of M1â€Siteâ€Activated NASICON Cathodes for Znâ€Ion Batteries. Advanced Materials, 2020, 32, e1907526.	11.1	103
30	Highly Reversible Cuprous Mediated Cathode Chemistry for Magnesium Batteries. Angewandte Chemie - International Edition, 2020, 59, 11477-11482.	7.2	67
31	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
32	Additiveâ€Assisted Novel Dualâ€Salt Electrolyte Addresses Wide Temperature Operation of Lithiumâ€“Metal Batteries. Small, 2019, 15, e1900269.	5.2	107
33	Fluorescence Probing of Active Lithium Distribution in Lithium Metal Anodes. Angewandte Chemie - International Edition, 2019, 58, 5936-5940.	7.2	35
34	Fluorescence Probing of Active Lithium Distribution in Lithium Metal Anodes. Angewandte Chemie, 2019, 131, 5997-6001.	1.6	8
35	A Crosslinked Polytetrahydrofuranâ€Borateâ€Based Polymer Electrolyte Enabling Wideâ€Workingâ€Temperatureâ€Range Rechargeable Magnesium Batteries. Advanced Materials, 2019, 31, e1805930.	11.1	95
36	A promising bulky anion based lithium borate salt for lithium metal batteries. Chemical Science, 2018, 9, 3451-3458.	3.7	56

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37	Integrated Interface Strategy toward Room Temperature Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2018, 10, 13588-13597.	4.0	110
38	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
39	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
40	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
41	Multifunctional Additives Improve the Electrolyte Properties of Magnesium Borohydride Toward Magnesiumâ€"Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 23757-23765.	4.0	38
42	Aliphatic Polycarbonateâ€Based Solidâ€State Polymer Electrolytes for Advanced Lithium Batteries: Advances and Perspective. Small, 2018, 14, e1800821.	5.2	131
43	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
44	High-voltage and free-standing poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 472 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
45	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
46	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
47	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
48	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
49	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
50	All solid-state polymer electrolytes for high-performance lithium ion batteries. Energy Storage Materials, 2016, 5, 139-164.	9.5	768
51	Compatible interface design of CoO-based Li-O2 battery cathodes with long-cycling stability. Scientific Reports, 2015, 5, 8335.	1.6	102
52	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
53	Low-cost, flexible graphene/polyaniline nanocomposite paper as binder-free high-performance supercapacitor electrode. Functional Materials Letters, 2014, 07, 1440010.	0.7	5
54	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

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55	Electrodeposition of nanostructured cobalt selenide films towards high performance counter electrodes in dye-sensitized solar cells. RSC Advances, 2013, 3, 16528.	1.7	71
56	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
57	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