Chong Yan

List of Publications by Year
in descending order

98 papers	14,941 citations	28274 55 h-index	34986 98 g-index
105 all docs	105 docs citations	105 times ranked	7300 citing authors

#	Article	IF	Citations
1	In-situ determination of onset lithium plating for safe Li-ion batteries. Journal of Energy Chemistry, 2022, 67, 255-262.	12.9	30
2	Cellulose nanofiber separator for suppressing shuttle effect and Li dendrite formation in lithium-sulfur batteries. Journal of Energy Chemistry, 2022, 67, 736-744.	12.9	33
3	A generalizable, data-driven online approach to forecast capacity degradation trajectory of lithium batteries. Journal of Energy Chemistry, 2022, 68, 548-555.	12.9	46
4	Quantification of the Dynamic Interface Evolution in Highâ€Efficiency Working Liâ€Metal Batteries. Angewandte Chemie, 2022, 134, .	2.0	13
5	Quantification of the Dynamic Interface Evolution in Highâ€Efficiency Working Liâ€Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	66
6	Unblocked Electron Channels Enable Efficient Contact Prelithiation for Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2110337.	21.0	58
7	Construction of Lowâ€Impedance and Highâ€Passivated Interphase for Nickelâ€Rich Cathode by Lowâ€Cost Boronâ€Containing Electrolyte Additive. ChemSusChem, 2022, 15, .	6.8	4
8	A Toolbox of Reference Electrodes for Lithium Batteries. Advanced Functional Materials, 2022, 32, .	14.9	27
9	A perspective on energy chemistry of low-temperature lithium metal batteries. , 2022, 1, 72-81.		18
10	The Raw Mixed Conducting Interphase Affords Effective Prelithiation in Working Batteries. Angewandte Chemie, 2022, 134, .	2.0	2
11	Molecular-scale controllable conversion of biopolymers into hard carbons towards lithium and sodium ion batteries: A review. Journal of Energy Chemistry, 2022, 72, 554-569.	12.9	24
12	The Raw Mixed Conducting Interphase Affords Effective Prelithiation in Working Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	21
13	Electrolyte inhomogeneity induced lithium plating in fast charging lithium-ion batteries. Journal of Energy Chemistry, 2022, 73, 394-399.	12.9	26
14	Regulating Interfacial Chemistry in Lithiumâ€Ion Batteries by a Weakly Solvating Electrolyte**. Angewandte Chemie, 2021, 133, 4136-4143.	2.0	74
15	A review on the failure and regulation of solid electrolyte interphase in lithium batteries. Journal of Energy Chemistry, 2021, 59, 306-319.	12.9	183
16	Competitive Solid-Electrolyte Interphase Formation on Working Lithium Anodes. Trends in Chemistry, 2021, 3, 5-14.	8.5	34
17	Identifying the Critical Anionâ€"Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithiumâ€Metal Anode Interface. Angewandte Chemie, 2021, 133, 4261-4266.	2.0	25
18	Identifying the Critical Anionâ€"Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithiumâ€Metal Anode Interface. Angewandte Chemie - International Edition, 2021, 60, 4215-4220.	13.8	145

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19	Inhibiting Solvent Coâ€Intercalation in a Graphite Anode by a Localized Highâ€Concentration Electrolyte in Fastâ€Charging Batteries. Angewandte Chemie, 2021, 133, 3444-3448.	2.0	44
20	Inhibiting Solvent Coâ€Intercalation in a Graphite Anode by a Localized Highâ€Concentration Electrolyte in Fastâ€Charging Batteries. Angewandte Chemie - International Edition, 2021, 60, 3402-3406.	13.8	238
21	Regulating Interfacial Chemistry in Lithiumâ€Ion Batteries by a Weakly Solvating Electrolyte**. Angewandte Chemie - International Edition, 2021, 60, 4090-4097.	13.8	373
22	RÃ¼cktitelbild: Identifying the Critical Anionâ€"Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithiumâ€Metal Anode Interface (Angew. Chem. 8/2021). Angewandte Chemie, 2021, 133, 4428-4428.	2.0	0
23	Frontispiz: Regulating Interfacial Chemistry in Lithiumâ€Ion Batteries by a Weakly Solvating Electrolyte. Angewandte Chemie, 2021, 133, .	2.0	1
24	Frontispiece: Regulating Interfacial Chemistry in Lithiumâ€Ion Batteries by a Weakly Solvating Electrolyte. Angewandte Chemie - International Edition, 2021, 60, .	13.8	1
25	Nucleation and Growth Mechanism of Anionâ€Derived Solid Electrolyte Interphase in Rechargeable Batteries. Angewandte Chemie - International Edition, 2021, 60, 8521-8525.	13.8	77
26	Nucleation and Growth Mechanism of Anionâ€Derived Solid Electrolyte Interphase in Rechargeable Batteries. Angewandte Chemie, 2021, 133, 8602-8606.	2.0	16
27	Nonâ€Solvating and Lowâ€Dielectricity Cosolvent for Anionâ€Derived Solid Electrolyte Interphases in Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 11543-11548.	2.0	19
28	Nonâ€Solvating and Lowâ€Dielectricity Cosolvent for Anionâ€Derived Solid Electrolyte Interphases in Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 11442-11447.	13.8	169
29	The Boundary of Lithium Plating in Graphite Electrode for Safe Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 13007-13012.	13.8	120
30	The Boundary of Lithium Plating in Graphite Electrode for Safe Lithiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 13117-13122.	2.0	17
31	Selective Permeable Lithiumâ€Ion Channels on Lithium Metal for Practical Lithiumâ€"Sulfur Pouch Cells. Angewandte Chemie - International Edition, 2021, 60, 18031-18036.	13.8	52
32	Selective Permeable Lithiumâ€Ion Channels on Lithium Metal for Practical Lithiumâ€"Sulfur Pouch Cells. Angewandte Chemie, 2021, 133, 18179-18184.	2.0	6
33	Role of Lithiophilic Metal Sites in Lithium Metal Anodes. Energy & Fuels, 2021, 35, 12746-12752.	5.1	16
34	Hard Carbon Anodes for Nextâ€Generation Liâ€Ion Batteries: Review and Perspective. Advanced Energy Materials, 2021, 11, 2101650.	19.5	213
35	New insights into â€œdead lithiumâ€•during stripping in lithium metal batteries. Journal of Energy Chemistry, 2021, 62, 289-294.	12.9	115
36	Review on Li Deposition in Working Batteries: From Nucleation to Early Growth. Advanced Materials, 2021, 33, e2004128.	21.0	205

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37	Advanced Electrode Materials in Lithium Batteries: Retrospect and Prospect. Energy Material Advances, 2021, 2021, .	11.0	179
38	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries. Advanced Materials, 2021, 33, e2105962.	21.0	59
39	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock 1	21.0	5
40	Perspective on the critical role of interface for advanced batteries. Journal of Energy Chemistry, 2020, 47, 217-220.	12.9	127
41	Liquid phase therapy to solid electrolyteâ€"electrode interface in solid-state Li metal batteries: A review. Energy Storage Materials, 2020, 24, 75-84.	18.0	199
42	Interface enhanced well-dispersed Co9S8 nanocrystals as an efficient polysulfide host in lithiumâ€"sulfur batteries. Journal of Energy Chemistry, 2020, 48, 109-115.	12.9	59
43	A Sustainable Solid Electrolyte Interphase for Highâ€Energyâ€Density Lithium Metal Batteries Under Practical Conditions. Angewandte Chemie, 2020, 132, 3278-3283.	2.0	60
44	The reduction of interfacial transfer barrier of Li ions enabled by inorganics-rich solid-electrolyte interphase. Energy Storage Materials, 2020, 28, 401-406.	18.0	55
45	A Sustainable Solid Electrolyte Interphase for Highâ€Energyâ€Density Lithium Metal Batteries Under Practical Conditions. Angewandte Chemie - International Edition, 2020, 59, 3252-3257.	13.8	221
46	A compact inorganic layer for robust anode protection in lithiumâ€sulfur batteries. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 379-388.	17.3	197
47	Emerging interfacial chemistry of graphite anodes in lithium-ion batteries. Chemical Communications, 2020, 56, 14570-14584.	4.1	79
48	A bifunctional ethylene-vinyl acetate copolymer protective layer for dendrites-free lithium metal anodes. Journal of Energy Chemistry, 2020, 48, 203-207.	12.9	68
49	Shielding Polysulfide Intermediates by an Organosulfurâ€Containing Solid Electrolyte Interphase on the Lithium Anode in Lithiumâ€"Sulfur Batteries. Advanced Materials, 2020, 32, e2003012.	21.0	108
50	Rapid Lithium Diffusion in Order@Disorder Pathways for Fastâ€Charging Graphite Anodes. Small Structures, 2020, 1, 2000010.	12.0	130
51	A review on energy chemistry of fast-charging anodes. Chemical Society Reviews, 2020, 49, 3806-3833.	38.1	323
52	In situ regulated solid electrolyte interphase via reactive separators for highly efficient lithium metal batteries. Energy Storage Materials, 2020, 30, 27-33.	18.0	90
53	A Diffusionâ€â€Reaction Competition Mechanism to Tailor Lithium Deposition for Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 7743-7747.	13.8	219
54	Integrated lithium metal anode protected by composite solid electrolyte film enables stable quasi-solid-state lithium metal batteries. Chinese Chemical Letters, 2020, 31, 2339-2342.	9.0	50

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55	The influence of formation temperature on the solid electrolyte interphase of graphite in lithium ion batteries. Journal of Energy Chemistry, 2020, 49, 335-338.	12.9	55
56	A Diffusionâ€â€Reaction Competition Mechanism to Tailor Lithium Deposition for Lithiumâ€Metal Batteries. Angewandte Chemie, 2020, 132, 7817-7821.	2.0	37
57	Review on nanomaterials for nextâ€generation batteries with lithium metal anodes. Nano Select, 2020, 1, 94-110.	3.7	14
58	Controlling Dendrite Growth in Solid-State Electrolytes. ACS Energy Letters, 2020, 5, 833-843.	17.4	322
59	Waterproof lithium metal anode enabled by cross-linking encapsulation. Science Bulletin, 2020, 65, 909-916.	9.0	60
60	InnenrÃ¼cktitelbild: A Sustainable Solid Electrolyte Interphase for Highâ€Energyâ€Density Lithium Metal Batteries Under Practical Conditions (Angew. Chem. 8/2020). Angewandte Chemie, 2020, 132, 3363-3363.	2.0	0
61	Toward Critical Electrode/Electrolyte Interfaces in Rechargeable Batteries. Advanced Functional Materials, 2020, 30, 1909887.	14.9	251
62	Research Progress of Solid Electrolyte Interphase in Lithium Batteries. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	4.9	7
63	Artificial Interphases for Highly Stable Lithium Metal Anode. Matter, 2019, 1, 317-344.	10.0	508
64	Electrochemical Diagram of an Ultrathin Lithium Metal Anode in Pouch Cells. Advanced Materials, 2019, 31, e1902785.	21.0	121
65	4.5â€…V Highâ€Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode. Angewandte Chemie - International Edition, 2019, 58, 15235-15238.	13.8	47
66	4.5â€…V Highâ€Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode. Angewandte Chemie, 2019, 131, 15379-15382.	2.0	7
67	Lithium-Anode Protection in Lithiumâ€“Sulfur Batteries. Trends in Chemistry, 2019, 1, 693-704.	8.5	98
68	Plating/Stripping Behavior of Actual Lithium Metal Anode. Advanced Energy Materials, 2019, 9, 1902254.	19.5	168
69	Innentitelbild: 4.5â€…V Highâ€Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode (Angew. Chem. 43/2019). Angewandte Chemie, 2019, 131, 15306-15306.	2.0	0
70	Regulating the Inner Helmholtz Plane for Stable Solid Electrolyte Interphase on Lithium Metal Anodes. Journal of the American Chemical Society, 2019, 141, 9422-9429.	13.7	429
71	Lithiumâ€Metal Anodes: Dualâ€Phase Singleâ€Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries (Adv. Mater. 19/2019). Advanced Materials, 2019, 31, 1970135.	21.0	1
72	Dualâ€Phase Singleâ€Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. Advanced Materials, 2019, 31, e1808392.	21.0	224

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73	Lithiumâ€“matrix composite anode protected by a solid electrolyte layer for stable lithium metal batteries. Journal of Energy Chemistry, 2019, 37, 29-34.	12.9	219
74	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. Angewandte Chemie - International Edition, 2018, 57, 5301-5305.	13.8	601
75	Lithium Metal Anodes: Artificial Softâ€“Rigid Protective Layer for Dendriteâ€Free Lithium Metal Anode (Adv. Funct. Mater. 8/2018). Advanced Functional Materials, 2018, 28, 1870049.	14.9	12
76	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. Angewandte Chemie, 2018, 130, 5399-5403.	2.0	116
77	Coralloid Carbon Fiber-Based Composite Lithium Anode for Robust Lithium Metal Batteries. Joule, 2018, 2, 764-777.	24.0	609
78	Dualâ€Layered Film Protected Lithium Metal Anode to Enable Dendriteâ€Free Lithium Deposition. Advanced Materials, 2018, 30, e1707629.	21.0	378
79	Artificial Softâ€“Rigid Protective Layer for Dendriteâ€Free Lithium Metal Anode. Advanced Functional Materials, 2018, 28, 1705838.	14.9	470
80	Sulfurized solid electrolyte interphases with a rapid Li+ diffusion on dendrite-free Li metal anodes. Energy Storage Materials, 2018, 10, 199-205.	18.0	215
81	Beyond lithium ion batteries: Higher energy density battery systems based on lithium metal anodes. Energy Storage Materials, 2018, 12, 161-175.	18.0	422
82	An Armored Mixed Conductor Interphase on a Dendriteâ€Free Lithiumâ€Metal Anode. Advanced Materials, 2018, 30, e1804461.	21.0	338
83	RÃ¼cktitelbild: Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries (Angew. Chem. 43/2018). Angewandte Chemie, 2018, 130, 14488-14488.	2.0	0
84	A Review of Advanced Energy Materials for Magnesiumâ€“Sulfur Batteries. Energy and Environmental Materials, 2018, 1, 100-112.	12.8	112
85	Electronic and Ionic Channels in Working Interfaces of Lithium Metal Anodes. ACS Energy Letters, 2018, 3, 1564-1570.	17.4	211
86	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains Highâ€Voltage Lithium Metal Batteries. Angewandte Chemie, 2018, 130, 14251-14255.	2.0	117
87	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains Highâ€Voltage Lithium Metal Batteries. Angewandte Chemie - International Edition, 2018, 57, 14055-14059.	13.8	410
88	Lithium Metal Anodes: Dualâ€Layered Film Protected Lithium Metal Anode to Enable Dendriteâ€Free Lithium Deposition (Adv. Mater. 25/2018). Advanced Materials, 2018, 30, 1870181.	21.0	11
89	Towards stable lithium-sulfur batteries: Mechanistic insights into electrolyte decomposition on lithium metal anode. Energy Storage Materials, 2017, 8, 194-201.	18.0	171
90	Fluoroethylene Carbonate Additives to Render Uniform Li Deposits in Lithium Metal Batteries. Advanced Functional Materials, 2017, 27, 1605989.	14.9	1,189

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91	Implantable Solid Electrolyte Interphase in Lithium-Metal Batteries. CheM, 2017, 2, 258-270.	11.7	474
92	Innentitelbild: Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendriteâ€Free Lithium Metal Anodes (Angew. Chem. 27/2017). Angewandte Chemie, 2017, 129, 7790-7790.	2.0	4
93	Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendriteâ€Free Lithium Metal Anodes. Angewandte Chemie - International Edition, 2017, 56, 7764-7768.	13.8	989
94	Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendriteâ€Free Lithium Metal Anodes. Angewandte Chemie, 2017, 129, 7872-7876.	2.0	186
95	The gap between long lifespan Li-S coin and pouch cells: The importance of lithium metal anode protection. Energy Storage Materials, 2017, 6, 18-25.	18.0	325
96	Lithium metal protection through in-situ formed solid electrolyte interphase in lithium-sulfur batteries: The role of polysulfides on lithium anode. Journal of Power Sources, 2016, 327, 212-220.	7.8	222
97	Preparation of Hierarchical Porous Carbon/Sulfur Composite Based on Lotus-leaves and Its Property for Li-S Batteries. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2016, 31, 135.	1.3	3
98	Preparation of polystyrene/montmorillonite nanocomposites in supercritical carbon dioxide. Journal of Applied Polymer Science, 2005, 98, 22-28.	2.6	19