Chong Yan

List of Publications by Year in Descending Order

89 papers	8,976 citations	44 h-index	94 g-index
105 ext. papers	11,932 ext. citations	13.2 avg, IF	6.96 L-index

#	Paper	IF	Citations
89	Unblocked Electron Channels Enable Efficient Contact Prelithiation for Lithium-Ion Batteries.. *Advanced Materials*, **2022**, e2110337	24	3
88	A generalizable, data-driven online approach to forecast capacity degradation trajectory of lithium batteries. *Journal of Energy Chemistry*, **2022**, 68, 548-555	12	2
87	A Toolbox of Reference Electrodes for Lithium Batteries. *Advanced Functional Materials*, **2022**, 32, 2108449	15.6	7
86	A perspective on energy chemistry of low-temperature lithium metal batteries **2022**, 1, 72-81		3
85	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries (Adv. Mater. 52/2021). *Advanced Materials*, **2021**, 33, 2170413	24	1
84	Cellulose nanofiber separator for suppressing shuttle effect and Li dendrite formation in lithium-sulfur batteries. *Journal of Energy Chemistry*, **2021**, 67, 736-736	12	5
83	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries. *Advanced Materials*, **2021**, e2105962	24	16
82	Nucleation and Growth Mechanism of Anion-Derived Solid Electrolyte Interphase in Rechargeable Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 8521-8525	16.4	28
81	Nucleation and Growth Mechanism of Anion-Derived Solid Electrolyte Interphase in Rechargeable Batteries. *Angewandte Chemie*, **2021**, 133, 8602-8606	3.6	6
80	Non-Solvating and Low-Dielectricity Cosolvent for Anion-Derived Solid Electrolyte Interphases in Lithium Metal Batteries. *Angewandte Chemie*, **2021**, 133, 11543-11548	3.6	9
79	Non-Solvating and Low-Dielectricity Cosolvent for Anion-Derived Solid Electrolyte Interphases in Lithium Metal Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 11442-11447	16.4	52
78	The Boundary of Lithium Plating in Graphite Electrode for Safe Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 13007-13012	16.4	29
77	The Boundary of Lithium Plating in Graphite Electrode for Safe Lithium-Ion Batteries. *Angewandte Chemie*, **2021**, 133, 13117-13122	3.6	2
76	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical Lithium-Sulfur Pouch Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 18031-18036	16.4	21
75	Regulating Interfacial Chemistry in Lithium-Ion Batteries by a Weakly Solvating Electrolyte**. *Angewandte Chemie*, **2021**, 133, 4136-4143	3.6	35
74	A review on the failure and regulation of solid electrolyte interphase in lithium batteries. *Journal of Energy Chemistry*, **2021**, 59, 306-319	12	59
73	Competitive Solid-Electrolyte Interphase Formation on Working Lithium Anodes. *Trends in Chemistry*, **2021**, 3, 5-14	14.8	17

72	Identifying the Critical Anion‐Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface. *Angewandte Chemie*, **2021**, 133, 4261-4266	3.6	10
71	Identifying the Critical Anion-Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface. *Angewandte Chemie - International Edition*, **2021**, 60, 4215-4220	16.4	58
70	Inhibiting Solvent Co-Intercalation in a Graphite Anode by a Localized High-Concentration Electrolyte in Fast-Charging Batteries. *Angewandte Chemie*, **2021**, 133, 3444-3448	3.6	21
69	Inhibiting Solvent Co-Intercalation in a Graphite Anode by a Localized High-Concentration Electrolyte in Fast-Charging Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 3402-3406	16.4	73
68	Regulating Interfacial Chemistry in Lithium-Ion Batteries by a Weakly Solvating Electrolyte*. *Angewandte Chemie - International Edition*, **2021**, 60, 4090-4097	16.4	106
67	Rücktitelbild: Identifying the Critical Anion‐Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface (Angew. Chem. 8/2021). *Angewandte Chemie*, **2021**, 133, 4428-4428	3.6	
66	Frontispiz: Regulating Interfacial Chemistry in Lithium-Ion Batteries by a Weakly Solvating Electrolyte. *Angewandte Chemie*, **2021**, 133,	3.6	1
65	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical Lithium‐Sulfur Pouch Cells. *Angewandte Chemie*, **2021**, 133, 18179-18184	3.6	4
64	Role of Lithiophilic Metal Sites in Lithium Metal Anodes. *Energy & Fuels*, **2021**, 35, 12746-12752	4.1	4
63	Hard Carbon Anodes for Next-Generation Li-Ion Batteries: Review and Perspective. *Advanced Energy Materials*, **2021**, 11, 2101650	21.8	35
62	New insights into "dead lithium" during stripping in lithium metal batteries. *Journal of Energy Chemistry*, **2021**, 62, 289-294	12	33
61	Review on Li Deposition in Working Batteries: From Nucleation to Early Growth. *Advanced Materials* , **2021**, 33, e2004128	24	70
60	Advanced Electrode Materials in Lithium Batteries: Retrospect and Prospect. *Energy Material Advances*, **2021**, 2021, 1-15	1	40
59	A review on energy chemistry of fast-charging anodes. *Chemical Society Reviews*, **2020**, 49, 3806-3833	58.5	131
58	In situ regulated solid electrolyte interphase via reactive separators for highly efficient lithium metal batteries. *Energy Storage Materials*, **2020**, 30, 27-33	19.4	46
57	A Diffusion--Reaction Competition Mechanism to Tailor Lithium Deposition for Lithium-Metal Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 7743-7747	16.4	91
56	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	8.1	29
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	29

54	A Diffusion--Reaction Competition Mechanism to Tailor Lithium Deposition for Lithium-Metal Batteries. *Angewandte Chemie*, **2020**, 132, 7817-7821	3.6	25
53	Review on nanomaterials for next-generation batteries with lithium metal anodes. *Nano Select*, **2020**, 1, 94-110	3.1	9
52	Controlling Dendrite Growth in Solid-State Electrolytes. *ACS Energy Letters*, **2020**, 5, 833-843	20.1	165
51	Waterproof lithium metal anode enabled by cross-linking encapsulation. *Science Bulletin*, **2020**, 65, 909-916	10.6	41
50	Innenr�ktitelbild: A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions (Angew. Chem. 8/2020). *Angewandte Chemie*, **2020**, 132, 3363-3363	3.6	
49	Toward Critical Electrode/Electrolyte Interfaces in Rechargeable Batteries. *Advanced Functional Materials*, **2020**, 30, 1909887	15.6	114
48	Research Progress of Solid Electrolyte Interphase in Lithium Batteries. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2020**, 2010076-0	3.8	2
47	Interface enhanced well-dispersed Co9S8 nanocrystals as an efficient polysulfide host in lithium�sulfur batteries. *Journal of Energy Chemistry*, **2020**, 48, 109-115	12	41
46	A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions. *Angewandte Chemie*, **2020**, 132, 3278-3283	3.6	40
45	The reduction of interfacial transfer barrier of Li ions enabled by inorganics-rich solid-electrolyte interphase. *Energy Storage Materials*, **2020**, 28, 401-406	19.4	38
44	A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions. *Angewandte Chemie - International Edition*, **2020**, 59, 3252-3257	16.4	127
43	A compact inorganic layer for robust anode protection in lithium-sulfur batteries. *Informa�� Materi�y*, **2020**, 2, 379-388	23.1	133
42	Emerging interfacial chemistry of graphite anodes in lithium-ion batteries. *Chemical Communications*, **2020**, 56, 14570-14584	5.8	35
41	A bifunctional ethylene-vinyl acetate copolymer protective layer for dendrites-free lithium metal anodes. *Journal of Energy Chemistry*, **2020**, 48, 203-207	12	51
40	Shielding Polysulfide Intermediates by an Organosulfur-Containing Solid Electrolyte Interphase on the Lithium Anode in Lithium-Sulfur Batteries. *Advanced Materials*, **2020**, 32, e2003012	24	53
39	Rapid Lithium Diffusion in Order@Disorder Pathways for Fast-Charging Graphite Anodes. *Small Structures*, **2020**, 1, 2000010	8.7	51
38	Perspective on the critical role of interface for advanced batteries. *Journal of Energy Chemistry*, **2020**, 47, 217-220	12	82
37	Liquid phase therapy to solid electrolyte�electrode interface in solid-state Li metal batteries: A review. *Energy Storage Materials*, **2020**, 24, 75-84	19.4	109

36	Regulating the Inner Helmholtz Plane for Stable Solid Electrolyte Interphase on Lithium Metal Anodes. *Journal of the American Chemical Society*, **2019**, 141, 9422-9429	16.4	216
35	Lithium-Metal Anodes: Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries (Adv. Mater. 19/2019). *Advanced Materials*, **2019**, 31, 1970135	24	1
34	Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. *Advanced Materials*, **2019**, 31, e1808392	24	162
33	Artificial Interphases for Highly Stable Lithium Metal Anode. *Matter*, **2019**, 1, 317-344	12.7	303
32	Electrochemical Diagram of an Ultrathin Lithium Metal Anode in Pouch Cells. *Advanced Materials*, **2019**, 31, e1902785	24	78
31	4.5 V High-Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode. *Angewandte Chemie - International Edition*, **2019**, 58, 15235-15238	16.4	24
30	4.5 V High-Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode. *Angewandte Chemie*, **2019**, 131, 15379-15382	3.6	3
29	Lithium-Anode Protection in Lithium–Sulfur Batteries. *Trends in Chemistry*, **2019**, 1, 693-704	14.8	65
28	Plating/Stripping Behavior of Actual Lithium Metal Anode. *Advanced Energy Materials*, **2019**, 9, 1902254	21.8	109
27	Innentitelbild: 4.5 V High-Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode (Angew. Chem. 43/2019). *Angewandte Chemie*, **2019**, 131, 15306-15306	3.6	
26	Lithium–matrix composite anode protected by a solid electrolyte layer for stable lithium metal batteries. *Journal of Energy Chemistry*, **2019**, 37, 29-34	12	175
25	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. *Angewandte Chemie - International Edition*, **2018**, 57, 5301-5305	16.4	402
24	Lithium Metal Anodes: Artificial Soft–Rigid Protective Layer for Dendrite-Free Lithium Metal Anode (Adv. Funct. Mater. 8/2018). *Advanced Functional Materials*, **2018**, 28, 1870049	15.6	12
23	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. *Angewandte Chemie*, **2018**, 130, 5399-5403	3.6	97
22	Coralloid Carbon Fiber-Based Composite Lithium Anode for Robust Lithium Metal Batteries. *Joule*, **2018**, 2, 764-777	27.8	435
21	Dual-Layered Film Protected Lithium Metal Anode to Enable Dendrite-Free Lithium Deposition. *Advanced Materials*, **2018**, 30, e1707629	24	278
20	Artificial Soft–Rigid Protective Layer for Dendrite-Free Lithium Metal Anode. *Advanced Functional Materials*, **2018**, 28, 1705838	15.6	355
19	Sulfurized solid electrolyte interphases with a rapid Li+ diffusion on dendrite-free Li metal anodes. *Energy Storage Materials*, **2018**, 10, 199-205	19.4	165

18	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. *Angewandte Chemie*, **2018**, 130, 14251-14255	3.6	87
17	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 14055-14059	16.4	249
16	Lithium Metal Anodes: Dual-Layered Film Protected Lithium Metal Anode to Enable Dendrite-Free Lithium Deposition (Adv. Mater. 25/2018). *Advanced Materials*, **2018**, 30, 1870181	24	8
15	Beyond lithium ion batteries: Higher energy density battery systems based on lithium metal anodes. *Energy Storage Materials*, **2018**, 12, 161-175	19.4	284
14	An Armored Mixed Conductor Interphase on a Dendrite-Free Lithium-Metal Anode. *Advanced Materials*, **2018**, 30, e1804461	24	246
13	R�cktitelbild: Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries (Angew. Chem. 43/2018). *Angewandte Chemie*, **2018**, 130, 14488-14488	3.6	
12	A Review of Advanced Energy Materials for Magnesium�Sulfur Batteries. *Energy and Environmental Materials*, **2018**, 1, 100-112	13	74
11	Electronic and Ionic Channels in Working Interfaces of Lithium Metal Anodes. *ACS Energy Letters*, **2018**, 3, 1564-1570	20.1	158
10	Towards stable lithium-sulfur batteries: Mechanistic insights into electrolyte decomposition on lithium metal anode. *Energy Storage Materials*, **2017**, 8, 194-201	19.4	133
9	Fluoroethylene Carbonate Additives to Render Uniform Li Deposits in Lithium Metal Batteries. *Advanced Functional Materials*, **2017**, 27, 1605989	15.6	878
8	Implantable Solid Electrolyte Interphase in Lithium-Metal Batteries. *CheM*, **2017**, 2, 258-270	16.2	411
7	Innentitelbild: Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes (Angew. Chem. 27/2017). *Angewandte Chemie*, **2017**, 129, 7790-7790	3.6	2
6	Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes. *Angewandte Chemie - International Edition*, **2017**, 56, 7764-7768	16.4	760
5	Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes. *Angewandte Chemie*, **2017**, 129, 7872-7876	3.6	127
4	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	19.4	240
3	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	8.9	201
2	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
1	Preparation of polystyrene/montmorillonite nanocomposites in supercritical carbon dioxide. *Journal of Applied Polymer Science*, **2005**, 98, 22-28	2.9	18