Yu-Xing Yao

List of Publications by Year
in descending order

38 papers	4,218 citations	218592 26 h-index	302012 39 g-index
42 all docs	42 docs citations	42 times ranked	3036 citing authors

#	Article	IF	Citations
1	Recent Advances in Energy Chemistry between Solid-State Electrolyte and Safe Lithium-Metal Anodes. CheM, 2019, 5, 74-96.	5.8	610
2	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains Highâ€Voltage Lithium Metal Batteries. Angewandte Chemie - International Edition, 2018, 57, 14055-14059.	7.2	410
3	Regulating Interfacial Chemistry in Lithiumâ€Ion Batteries by a Weakly Solvating Electrolyte**. Angewandte Chemie - International Edition, 2021, 60, 4090-4097.	7.2	373
4	An Armored Mixed Conductor Interphase on a Dendriteâ€Free Lithiumâ€Metal Anode. Advanced Materials, 2018, 30, e1804461.	11.1	338
5	A review on energy chemistry of fast-charging anodes. Chemical Society Reviews, 2020, 49, 3806-3833.	18.7	323
6	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.	7.2	238
7	A Diffusionâ€â€Reaction Competition Mechanism to Tailor Lithium Deposition for Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 7743-7747.	7.2	219
8	A compact inorganic layer for robust anode protection in lithiumâ€sulfur batteries. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 379-388.	8.5	197
9	Nonâ€Solvating and Lowâ€Dielectricity Cosolvent for Anionâ€Derived Solid Electrolyte Interphases in Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 11442-11447.	7.2	169
10	Rapid Lithium Diffusion in Order@Disorder Pathways for Fastâ€Charging Graphite Anodes. Small Structures, 2020, 1, 2000010.	6.9	130
11	Stable Anionâ€Derived Solid Electrolyte Interphase in Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 22683-22687.	7.2	125
12	The Boundary of Lithium Plating in Graphite Electrode for Safe Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 13007-13012.	7.2	120
13	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains Highâ€Voltage Lithium Metal Batteries. Angewandte Chemie, 2018, 130, 14251-14255.	1.6	117
14	Emerging interfacial chemistry of graphite anodes in lithium-ion batteries. Chemical Communications, 2020, 56, 14570-14584.	2.2	79
15	Nucleation and Growth Mechanism of Anionâ€Derived Solid Electrolyte Interphase in Rechargeable Batteries. Angewandte Chemie - International Edition, 2021, 60, 8521-8525.	7.2	77
16	Regulating Interfacial Chemistry in Lithiumâ€Ion Batteries by a Weakly Solvating Electrolyte**. Angewandte Chemie, 2021, 133, 4136-4143.	1.6	74
17	Quantification of the Dynamic Interface Evolution in Highâ€Efficiency Working Liâ€Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	66
18	A Successive Conversionâ€“Deintercalation Delithiation Mechanism for Practical Composite Lithium Anodes. Journal of the American Chemical Society, 2022, 144, 212-218.	6.6	66

#	Article	IF	Citations
19	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries. Advanced Materials, 2021, 33, e2105962.	11.1	59
20	Unblocked Electron Channels Enable Efficient Contact Prelithiation for Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2110337.	11.1	58
21	The influence of formation temperature on the solid electrolyte interphase of graphite in lithium ion batteries. Journal of Energy Chemistry, 2020, 49, 335-338.	7.1	55
22	Selective Permeable Lithiumâ€Ion Channels on Lithium Metal for Practical Lithiumâ€“Sulfur Pouch Cells. Angewandte Chemie - International Edition, 2021, 60, 18031-18036.	7.2	52
23	Inhibiting Solvent Coâ€Intercalation in a Graphite Anode by a Localized Highâ€Concentration Electrolyte in Fastâ€Charging Batteries. Angewandte Chemie, 2021, 133, 3444-3448.	1.6	44
24	A Diffusionâ€â€Reaction Competition Mechanism to Tailor Lithium Deposition for Lithiumâ€Metal Batteries. Angewandte Chemie, 2020, 132, 7817-7821.	1.6	37
25	Stable Anionâ€Derived Solid Electrolyte Interphase in Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 22865-22869.	1.6	32
26	In-situ determination of onset lithium plating for safe Li-ion batteries. Journal of Energy Chemistry, 2022, 67, 255-262.	7.1	30
27	The Raw Mixed Conducting Interphase Affords Effective Prelithiation in Working Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	21
28	Nonâ€Solvating and Lowâ€Dielectricity Cosolvent for Anionâ€Derived Solid Electrolyte Interphases in Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 11543-11548.	1.6	19
29	The Boundary of Lithium Plating in Graphite Electrode for Safe Lithiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 13117-13122.	1.6	17
30	Nucleation and Growth Mechanism of Anionâ€Derived Solid Electrolyte Interphase in Rechargeable Batteries. Angewandte Chemie, 2021, 133, 8602-8606.	1.6	16
31	Quantification of the Dynamic Interface Evolution in Highâ€Efficiency Working Liâ€Metal Batteries. Angewandte Chemie, 2022, 134, .	1.6	13
32	Selective Permeable Lithiumâ€Ion Channels on Lithium Metal for Practical Lithiumâ€“Sulfur Pouch Cells. Angewandte Chemie, 2021, 133, 18179-18184.	1.6	6
33	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries (Adv.) Tj ETQq1 1 0.784314 rgBT /Overloc	11.1	5
34	The Raw Mixed Conducting Interphase Affords Effective Prelithiation in Working Batteries. Angewandte Chemie, 2022, 134, .	1.6	2
35	Frontispiz: Regulating Interfacial Chemistry in Lithiumâ€Ion Batteries by a Weakly Solvating Electrolyte. Angewandte Chemie, 2021, 133, .	1.6	1
36	Frontispiece: Regulating Interfacial Chemistry in Lithiumâ€Ion Batteries by a Weakly Solvating Electrolyte. Angewandte Chemie - International Edition, 2021, 60, .	7.2	1

#	Article	IF	Citations
37	RÃ¼cktitelbild: Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries (Angew. Chem. 43/2018). Angewandte Chemie, 2018, 130, 14488-14488.	1.6	0
38	InnenrÃ¼cktitelbild: A Diffusionâ€â€Reaction Competition Mechanism to Tailor Lithium Deposition for Lithiumâ€Metal Batteries (Angew. Chem. 20/2020). Angewandte Chemie, 2020, 132, 8041-8041.	1.6	0