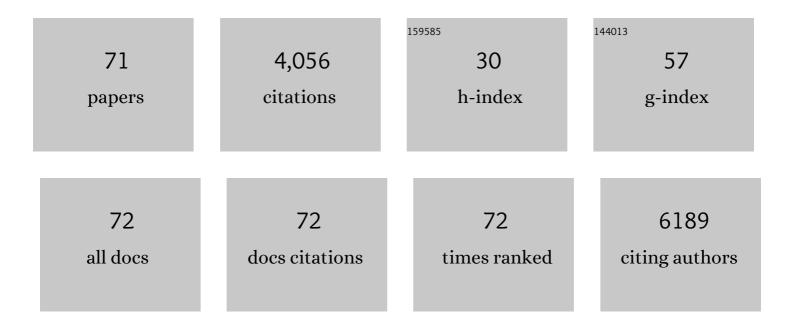
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mitigation of rapid capacity decay in silicon- LiNi0.6Mn0.2Co0.2O2 full batteries. Energy Storage Materials, 2022, 49, 111-121.	18.0	8
2	Plasma Enabled Lithophilic Host for Lithium Anodes. ECS Meeting Abstracts, 2022, MA2022-01, 407-407.	0.0	0
3	Strategies to Enable Reversible Magnesium Electrochemistry: From Electrolytes to Artificial Solid–Electrolyte Interphases. Angewandte Chemie, 2021, 133, 11136-11147.	2.0	10
4	Strategies to Enable Reversible Magnesium Electrochemistry: From Electrolytes to Artificial Solid–Electrolyte Interphases. Angewandte Chemie - International Edition, 2021, 60, 11036-11047.	13.8	81
5	Evolution of solid electrolyte interphase and active material in the silicon wafer model system. Journal of Power Sources, 2021, 482, 228946.	7.8	19
6	Cold Plasma Process for Lithium-Ion Electrode Manufacturing. ECS Meeting Abstracts, 2021, MA2021-01, 184-184.	0.0	0
7	Failure Mechanism for Silicon-NMC Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 119-119.	0.0	0
8	A Simplified Model to Track Si Degradation in Various Systems. ECS Meeting Abstracts, 2021, MA2021-01, 126-126.	0.0	0
9	Reimagining Li-Ion Electrode Fabrication Via Cold Plasma Deposition. ECS Meeting Abstracts, 2021, MA2021-01, 176-176.	0.0	0
10	Enabling Magnesium Anodes by Tuning the Electrode/Electrolyte Interfacial Structure. ACS Applied Materials & Interfaces, 2021, 13, 52461-52468.	8.0	13
11	(Invited) Fast Determination of Lithium Content and Failure Mechanism for Aged Lithium-ion Battery Electrodes. ECS Meeting Abstracts, 2021, MA2021-02, 1800-1800.	0.0	0
12	(Keynote) A Proposed Solution to Li Dendrite Penetration Into Solid Electrolytes. ECS Meeting Abstracts, 2021, MA2021-02, 730-730.	0.0	0
13	Towards high rate Li metal anodes: enhanced performance at high current density in a superconcentrated ionic liquid. Journal of Materials Chemistry A, 2020, 8, 3574-3579.	10.3	25
14	High Current Cycling in a Superconcentrated Ionic Liquid Electrolyte to Promote Uniform Li Morphology and a Uniform LiF-Rich Solid Electrolyte Interphase. ACS Applied Materials & Interfaces, 2020, 12, 42236-42247.	8.0	23
15	Microstructure Study on Initial Lithiation/Delithiation Cycle of Crystalline Silicon Wafer—ADDENDUM. Microscopy and Microanalysis, 2020, 26, 183-183.	0.4	0
16	Lithium Substituted Poly(acrylic acid) as a Mechanically Robust Binder for Low-Cost Silicon Microparticle Electrodes. ACS Applied Energy Materials, 2020, 3, 10940-10949.	5.1	10
17	Fast Determination of Lithium Content in Spent Cathodes for Direct Battery Recycling. Advanced Sustainable Systems, 2020, 4, 2000073.	5.3	23
18	Surface SiO ₂ Thickness Controls Uniform-to-Localized Transition in Lithiation of Silicon Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 27017-27028.	8.0	37

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19	Nonpassivated Silicon Anode Surface. ACS Applied Materials & amp; Interfaces, 2020, 12, 26593-26600.	8.0	45
20	(Invited) Stability and Evolution of Solid Electrolyte Interphase on Silicon Anodes. ECS Meeting Abstracts, 2020, MA2020-01, 406-406.	0.0	0
21	A Proposed General Solution for Li Dendrite Penetration into Solid Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 876-876.	0.0	1
22	(Invited) Fast Determination of Lithium Content and Failure Mechanism for NMC Cathodes. ECS Meeting Abstracts, 2020, MA2020-02, 9-9.	0.0	0
23	Atomic layer deposition in porous electrodes: A pore-scale modeling study. Chemical Engineering Journal, 2019, 378, 122099.	12.7	26
24	Temperature-Dependent Solubility of Solid Electrolyte Interphase on Silicon Electrodes. ACS Energy Letters, 2019, 4, 2770-2775.	17.4	45
25	Microstructure Study on Initial Lithiation/Delithiation Cycle of Crystalline Silicon Wafer. Microscopy and Microanalysis, 2019, 25, 2098-2099.	0.4	1
26	Spatially Resolving Lithiation in Silicon–Graphite Composite Electrodes via in Situ High-Energy X-ray Diffraction Computed Tomography. Nano Letters, 2019, 19, 3811-3820.	9.1	73
27	Synchronized electrospinning and electrospraying technique for manufacturing of all-solid-state lithium-ion batteries. Journal of Power Sources, 2019, 431, 17-24.	7.8	23
28	Spatial Molecular Layer Deposition of Ultrathin Polyamide To Stabilize Silicon Anodes in Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 4135-4143.	5.1	20
29	Electrochemically induced fractures in crystalline silicon anodes. Journal of Power Sources, 2019, 425, 44-49.	7.8	14
30	Interfacially Induced Cascading Failure in Graphite‧ilicon Composite Anodes. Advanced Science, 2019, 6, 1801007.	11.2	66
31	Three-dimensional electronic resistivity mapping of solid electrolyte interphase on Si anode materials. Nano Energy, 2019, 55, 477-485.	16.0	56
32	Spatial atomic layer deposition for coating flexible porous Li-ion battery electrodes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	2.1	20
33	An artificial interphase enables reversible magnesium chemistry in carbonate electrolytes. Nature Chemistry, 2018, 10, 532-539.	13.6	347
34	Operando X-ray photoelectron spectroscopy of solid electrolyte interphase formation and evolution in Li2S-P2S5 solid-state electrolytes. Nature Communications, 2018, 9, 2490.	12.8	170
35	In Situ Engineering of the Electrode–Electrolyte Interface for Stabilized Overlithiated Cathodes. Advanced Materials, 2017, 29, 1604549.	21.0	26
36	Systematic Investigation of the Alucone-Coating Enhancement on Silicon Anodes. ACS Applied Materials & Interfaces, 2017, 9, 40143-40150.	8.0	18

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37	All-solid-state disordered LiTiS2pseudocapacitor. Journal of Materials Chemistry A, 2017, 5, 15661-15668.	10.3	13
38	Material/element-dependent fluorescence-yield modes on soft X-ray absorption spectroscopy of cathode materials for Li-ion batteries. AIP Advances, 2016, 6, .	1.3	48
39	Cross-linked aluminum dioxybenzene coating for stabilization of silicon electrodes. Nano Energy, 2016, 22, 202-210.	16.0	30
40	Molecular Layer Deposition for Surface Modification of Lithiumâ€ion Battery Electrodes. Advanced Materials Interfaces, 2016, 3, 1600762.	3.7	59
41	Surface Modification of Silicon Anodes for Durable and High-Energy Lithium-Ion Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0
42	Surface Coating Effect on Si Nanowires Anodes for Lithium Ion Batteries. Microscopy and Microanalysis, 2015, 21, 321-322.	0.4	0
43	Improved Electrochemical Performance of Carbon-Coated LiFeBO3 Nanoparticles for Lithium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2015, 15, 7186-7190.	0.9	4
44	Facile Synthesis of Lithium Sulfide Nanocrystals for Use in Advanced Rechargeable Batteries. ACS Applied Materials & Interfaces, 2015, 7, 28444-28451.	8.0	39
45	Mitigating irreversible capacity losses from carbon agents via surface modification. Journal of Power Sources, 2015, 275, 605-611.	7.8	14
46	Structure and Reactivity of Alucone-Coated Films on Si and Li _{<i>x</i>} Si _{<i>y</i>} Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 11948-11955.	8.0	39
47	Surface-Coating Regulated Lithiation Kinetics and Degradation in Silicon Nanowires for Lithium Ion Battery. ACS Nano, 2015, 9, 5559-5566.	14.6	118
48	Surface Modification of Silicon Anodes for Durable and HighEnergy Lithiumâ€lon Batteries. Israel Journal of Chemistry, 2015, 55, 558-569.	2.3	21
49	Effect of Al ₂ O ₃ Coating on Stabilizing LiNi _{0.4} Mn _{0.4} Co _{0.2} O ₂ Cathodes. Chemistry of Materials, 2015, 27, 6146-6154.	6.7	185
50	<i>In Situ</i> Transmission Electron Microscopy Probing of Native Oxide and Artificial Layers on Silicon Nanoparticles for Lithium Ion Batteries. ACS Nano, 2014, 8, 11816-11823.	14.6	99
51	Reversible High apacity Si Nanocomposite Anodes for Lithiumâ€ion Batteries Enabled by Molecular Layer Deposition. Advanced Materials, 2014, 26, 1596-1601.	21.0	169
52	Direct synthesis of thermochromic VO2 through hydrothermal reaction. Journal of Solid State Chemistry, 2014, 212, 237-241.	2.9	62
53	Phase evolution for conversion reaction electrodes in lithium-ion batteries. Nature Communications, 2014, 5, 3358.	12.8	163
54	Effect of interface modifications on voltage fade in 0.5Li2MnO3·0.5LiNi0.375Mn0.375Co0.25O2 cathode materials. Journal of Power Sources, 2014, 249, 509-514.	7.8	89

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55	Towards understanding the rate capability of layered transition metal oxides LiNiyMnyCo1â^'2yO2. Journal of Power Sources, 2014, 268, 106-112.	7.8	41
56	Conformal Coatings of Cyclizedâ€₽AN for Mechanically Resilient Si nanoâ€Composite Anodes. Advanced Energy Materials, 2013, 3, 697-702.	19.5	134
57	Unexpected Improved Performance of ALD Coated LiCoO ₂ /Graphite Liâ€ l on Batteries. Advanced Energy Materials, 2013, 3, 213-219.	19.5	206
58	Atomic layer deposition of amorphous TiO ₂ on graphene as an anode for Li-ion batteries. Nanotechnology, 2013, 24, 424002.	2.6	76
59	Lithiation of silica through partial reduction. Applied Physics Letters, 2012, 100, .	3.3	57
60	P-type doping of lithium peroxide with carbon sheets. Applied Physics Letters, 2012, 101, .	3.3	19
61	A Novel Codoping Approach for Enhancing the Performance of LiFePO ₄ Cathodes. Advanced Energy Materials, 2012, 2, 1028-1032.	19.5	72
62	First-Principles Study of Lithium Borocarbide as a Cathode Material for Rechargeable Li ion Batteries. Journal of Physical Chemistry Letters, 2011, 2, 1129-1132.	4.6	36
63	Origin of Bonding between the SWCNT and the Fe ₃ O ₄ (001) Surface and the Enhanced Electrical Conductivity. Journal of Physical Chemistry Letters, 2011, 2, 2853-2858.	4.6	17
64	Charge-driven structural transformation and valence versatility of boron sheets in magnesium borides. Physical Review B, 2011, 83, .	3.2	18
65	Extremely Durable Highâ€Rate Capability of a LiNi _{0.4} Mn _{0.4} Co _{0.2} O ₂ Cathode Enabled with Singleâ€Walled Carbon Nanotubes. Advanced Energy Materials, 2011, 1, 58-62.	19.5	74
66	HWCVD MoO3 nanoparticles and a-Si for next generation Li-ion anodes. Thin Solid Films, 2011, 519, 4495-4497.	1.8	22
67	Nanostructured Fe ₃ O ₄ /SWNT Electrode: Binderâ€Free and Highâ€Rate Liâ€Ion Anode. Advanced Materials, 2010, 22, E145-9.	21.0	556
68	High-Capacity and High-Rate Anodes for Li-Ion Batteries. ECS Meeting Abstracts, 2010, , .	0.0	0
69	Electrospun nano-vanadium pentoxide cathode. Electrochemistry Communications, 2009, 11, 522-525.	4.7	118
70	Nanoscale single-crystal vanadium oxides with layered structure by electrospinning and hydrothermal methods. Solid State Ionics, 2008, 179, 1721-1724.	2.7	30
71	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. ACS Energy Letters, 0, , 1399-1404.	17.4	228