

Sujong Chae

List of Publications by Year in descending order

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39
papers

5,986
citations

136950

32
h-index

289244

40
g-index

44
all docs

44
docs citations

44
times ranked

7015
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel-Rich Layered Lithium Transition-Metal Oxide for High-Energy Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4440-4457.	13.8	1,512
2	Scalable synthesis of silicon-nanolayer-embedded graphite for high-energy lithium-ion batteries. <i>Nature Energy</i> , 2016, 1, .	39.5	563
3	Metal (Ni, Co)-Metal Oxides/Graphene Nanocomposites as Multifunctional Electrocatalysts. <i>Advanced Functional Materials</i> , 2015, 25, 5799-5808.	14.9	490
4	Integration of Graphite and Silicon Anodes for the Commercialization of High-Energy Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 110-135.	13.8	460
5	Confronting Issues of the Practical Implementation of Si Anode in High-Energy Lithium-Ion Batteries. <i>Joule</i> , 2017, 1, 47-60.	24.0	329
6	Fast-charging high-energy lithium-ion batteries via implantation of amorphous silicon nanolayer in edge-plane activated graphite anodes. <i>Nature Communications</i> , 2017, 8, 812.	12.8	274
7	Challenges in Accommodating Volume Change of Si Anodes for Li-Ion Batteries. <i>ChemElectroChem</i> , 2015, 2, 1645-1651.	3.4	204
8	Elastic <i>in situ</i> -Silicon Nanoparticle Backboned Graphene Hybrid as a Self-Compacting Anode for High-Rate Lithium Ion Batteries. <i>ACS Nano</i> , 2014, 8, 8591-8599.	14.6	180
9	Unsymmetrical fluorinated malonateborate as an amphoteric additive for high-energy-density lithium-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 1552-1562.	30.8	154
10	Micron-sized Fe-Cu-Si ternary composite anodes for high energy Li-ion batteries. <i>Energy and Environmental Science</i> , 2016, 9, 1251-1257.	30.8	147
11	Flexible High-Energy Li-Ion Batteries with Fast-Charging Capability. <i>Nano Letters</i> , 2014, 14, 4083-4089.	9.1	122
12	Advances and Prospects of Sulfide All-Solid-State Lithium Batteries via One-to-One Comparison with Conventional Liquid Lithium Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1900376.	21.0	119
13	Calendering-Compatible Macroporous Architecture for Silicon-Graphite Composite toward High-Energy Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2003286.	21.0	111
14	Robust Pitch on Silicon Nanolayer-Embedded Graphite for Suppressing Undesirable Volume Expansion. <i>Advanced Energy Materials</i> , 2019, 9, 1803121.	19.5	107
15	Subnano-sized silicon anode via crystal growth inhibition mechanism and its application in a prototype battery pack. <i>Nature Energy</i> , 2021, 6, 1164-1175.	39.5	107
16	One-to-One Comparison of Graphite-Blended Negative Electrodes Using Silicon Nanolayer-Embedded Graphite versus Commercial Benchmarking Materials for High-Energy Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700071.	19.5	100
17	A Micrometer-Sized Silicon/Carbon Composite Anode Synthesized by Impregnation of Petroleum Pitch in Nanoporous Silicon. <i>Advanced Materials</i> , 2021, 33, e2103095.	21.0	99
18	Towards maximized volumetric capacity via pore-coordinated design for large-volume-change lithium-ion battery anodes. <i>Nature Communications</i> , 2019, 10, 475.	12.8	79

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19	A Ternary Ni ₄₆ Co ₄₀ Fe ₁₄ Nanoalloy-Based Oxygen Electrocatalyst for Highly Efficient Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2018, 30, e1803372.	21.0	73
20	Considering Critical Factors of Li-Rich Cathode and Si Anode Materials for Practical Li-ion Cell Applications. <i>Small</i> , 2015, 11, 4058-4073.	10.0	67
21	Hollow Silicon Nanostructures via the Kirkendall Effect. <i>Nano Letters</i> , 2015, 15, 6914-6918.	9.1	67
22	Rational Design of Electrolytes for Long-Term Cycling of Si Anodes over a Wide Temperature Range. <i>ACS Energy Letters</i> , 2021, 6, 387-394.	17.4	58
23	Fabrication of Lamellar Nanosphere Structure for Effective Stress Management in Large Volume Variation Anodes of High-Energy Lithium-ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1900970.	21.0	52
24	Strategic Pore Architecture for Accommodating Volume Change from High Si Content in Lithium-ion Battery Anodes. <i>Advanced Energy Materials</i> , 2020, 10, 1903400.	19.5	50
25	An Antiaging Electrolyte Additive for High-Energy-Density Lithium-ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000563.	19.5	50
26	Gas phase synthesis of amorphous silicon nitride nanoparticles for high-energy LIBs. <i>Energy and Environmental Science</i> , 2020, 13, 1212-1221.	30.8	48
27	Low-Temperature Carbon Coating of Nanosized Li _{1.015} Al _{0.06} Mn _{1.925} O ₄ and High-Density Electrode for High-Power Li-ion Batteries. <i>Nano Letters</i> , 2017, 17, 3744-3751.	9.1	45
28	Optimized Electrolyte with High Electrochemical Stability and Oxygen Solubility for Lithium-Oxygen and Lithium-Air Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2182-2190.	17.4	45
29	Novel design of ultra-fast Si anodes for Li-ion batteries: crystalline Si@amorphous Si encapsulating hard carbon. <i>Nanoscale</i> , 2014, 6, 10604-10610.	5.6	40
30	Effects of Fluorinated Diluents in Localized High-Concentration Electrolytes for Lithium-Oxygen Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2002927.	14.9	39
31	Native Void Space for Maximum Volumetric Capacity in Silicon-Based Anodes. <i>Nano Letters</i> , 2019, 19, 8793-8800.	9.1	36
32	Scalable Synthesis of Hollow β -SiC/Si Anodes via Selective Thermal Oxidation for Lithium-ion Batteries. <i>ACS Nano</i> , 2020, 14, 11548-11557.	14.6	32
33	Graphit- und -Silicium-Anoden für Lithiumionen-Hochenergiebatterien. <i>Angewandte Chemie</i> , 2020, 132, 112-138.	2.0	23
34	Stable Solid Electrolyte Interphase Layer Formed by Electrochemical Pretreatment of Gel Polymer Coating on Li Metal Anode for Lithium-Oxygen Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3321-3331.	17.4	17
35	Evaluation of the Volumetric Activity of the Air Electrode in a Zinc-Air Battery Using a Nitrogen and Sulfur Co-doped Metal-free Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57064-57070.	8.0	6
36	Crosslinked Polyethyleneimine Gel Polymer Interface to Improve Cycling Stability of RFBs. <i>Energy Material Advances</i> , 2022, 2022, .	11.0	3

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37	Zinc-Air Batteries: A Ternary Ni ₄₆ Co ₄₀ Fe ₁₄ Nanoalloy-Based Oxygen Electrocatalyst for Highly Efficient Rechargeable Zinc-Air Batteries (Adv. Mater. 46/2018). Advanced Materials, 2018, 30, 1870346.	21.0	1
38	(Invited) Rational Design of Localized High Concentration Electrolytes to Enable Long-Term Cycling of Si Anodes. ECS Meeting Abstracts, 2021, MA2021-01, 120-120.	0.0	0
39	Achieving Highly Reproducible Results in Graphite-Based Li-Ion Full Coin Cells. ECS Meeting Abstracts, 2021, MA2021-02, 408-408.	0.0	0