Jaephil Cho

List of Publications by Year
in descending order

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378	54,853	729 120	1341 223
papers	citations	h-index	g-index

409	409	409	32602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	IrO₂/LiLa₂IrO₆ as a robust electrocatalyst for the oxygen evolution reaction in acidic media. Journal of Materials Chemistry A, 2022, 10, 3393-3399.	5.2	14
2	Ru-incorporated oxygen-vacancy-enriched MoO2 electrocatalysts for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2022, 307, 121204.	10.8	103
3	The synergistic effect of Hf-O-Ru bonds and oxygen vacancies in Ru/HfO2 for enhanced hydrogen evolution. Nature Communications, 2022, 13, 1270.	5.8	126
4	Development of Highâ€Energy Anodes for Allâ€Solidâ€State Lithium Batteries Based on Sulfide Electrolytes. Angewandte Chemie, 2022, 134, .	1.6	6
5	Development of Highâ€Energy Anodes for Allâ€Solidâ€State Lithium Batteries Based on Sulfide Electrolytes. Angewandte Chemie - International Edition, 2022, 61, .	7.2	40
6	Material design and surface chemistry for advanced rechargeable zincâ€“air batteries. Chemical Science, 2022, 13, 6159-6180.	3.7	40
7	P and Mo Dual Doped Ru Ultrasmall Nanoclusters Embedded in Pâ€Doped Porous Carbon toward Efficient Hydrogen Evolution Reaction. Advanced Energy Materials, 2022, 12, .	10.2	58
8	Highly Densified Fractureâ€Free Siliconâ€Based Electrode for High Energy Lithiumâ€Ion Batteries. Batteries and Supercaps, 2022, 5, .	2.4	6
9	The Heterostructure of Ru₂P/WO₃/NPC Synergistically Promotes H₂O Dissociation for Improved Hydrogen Evolution. Angewandte Chemie - International Edition, 2021, 60, 4110-4116.	7.2	141
10	The Heterostructure of Ru₂P/WO₃/NPC Synergistically Promotes H₂O Dissociation for Improved Hydrogen Evolution. Angewandte Chemie, 2021, 133, 4156-4162.	1.6	33
11	Recent Advances and Prospects of Atomic Substitution on Layered Positive Materials for Lithiumâ€Ion Battery. Advanced Energy Materials, 2021, 11, 2003197.	10.2	31
12	Alloy-strain-output induced lattice dislocation in Ni₃FeN/Ni₃Fe ultrathin nanosheets for highly efficient overall water splitting. Journal of Materials Chemistry A, 2021, 9, 4036-4043.	5.2	54
13	Metal-Ion Chelating Gel Polymer Electrolyte for Ni-Rich Layered Cathode Materials at a High Voltage and an Elevated Temperature. ACS Applied Materials & Interfaces, 2021, 13, 9965-9974.	4.0	9
14	Replacing conventional battery electrolyte additives with dioxolone derivatives for high-energy-density lithium-ion batteries. Nature Communications, 2021, 12, 838.	5.8	122
15	Latticeâ€Oxygenâ€Stabilized Liâ€•and Mnâ€Rich Cathodes with Subâ€Micrometer Particles by Modifying the Excessâ€Li Distribution. Advanced Materials, 2021, 33, e2100352.	11.1	32
16	Reactive boride infusion stabilizes Ni-rich cathodes for lithium-ion batteries. Nature Energy, 2021, 6, 362-371.	19.8	274
17	A Dry Room-Free High-Energy Density Lithium-ion Batteries Enabled by Impurity Scavenging Separator Membrane. Energy Storage Materials, 2021, 36, 355-364.	9.5	25
18	Exploring the Dominant Role of Atomicâ€•and Nanoâ€Ruthenium as Active Sites for Hydrogen Evolution Reaction in Both Acidic and Alkaline Media. Advanced Science, 2021, 8, e2004516.	5.6	58

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19	Ru atom-modified Co4N-CoF2 heterojunction catalyst for high-performance alkaline hydrogen evolution. Chemical Engineering Journal, 2021, 414, 128865.	6.6	32
20	Sodiumâ€Decorated Amorphous/Crystalline RuO₂ with Rich Oxygen Vacancies: A Robust pHâ€Universal Oxygen Evolution Electrocatalyst. Angewandte Chemie, 2021, 133, 18969-18977.	1.6	30
21	Sodiumâ€Decorated Amorphous/Crystalline RuO₂ with Rich Oxygen Vacancies: A Robust pHâ€Universal Oxygen Evolution Electrocatalyst. Angewandte Chemie - International Edition, 2021, 60, 18821-18829.	7.2	346
22	SrIrO3 modified with laminar Sr2IrO4 as a robust bifunctional electrocatalyst for overall water splitting in acidic media. Chemical Engineering Journal, 2021, 419, 129604.	6.6	28
23	Reliable protocols for calculating the specific energy and energy density of Li-ion batteries. Materials Today Energy, 2021, 21, 100838.	2.5	18
24	Gettering La Effect from La₃IrO₇ as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction in Acid Media. Advanced Energy Materials, 2021, 11, 2003561.	10.2	45
25	Three-dimensional hierarchical Co(OH)F nanosheet arrays decorated by single-atom Ru for boosting oxygen evolution reaction. Science China Materials, 2021, 64, 1408-1417.	3.5	25
26	Weakened lattice-strain effect in MoO_x@NPC-supported ruthenium dots toward high-efficiency hydrogen generation. Journal of Materials Chemistry A, 2021, 9, 24348-24354.	5.2	6
27	Subnano-sized silicon anode via crystal growth inhibition mechanism and its application in a prototype battery pack. Nature Energy, 2021, 6, 1164-1175.	19.8	107
28	Integration of Graphite and Silicon Anodes for the Commercialization of Highâ€Energy Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 110-135.	7.2	460
29	Graphitâ€•undâ€Siliciumâ€Anoden fÃ¼r Lithiumionenâ€•Hochenergiebatterien. Angewandte Chemie, 2020, 132, 112-138.	1.6	23
30	In-situ formed N doped bamboo-like carbon nanotube decorated with Feâ€“Niâ€“Cr nanoparticles as efficient electrocatalysts for overall water-splitting. Materials Chemistry and Physics, 2020, 241, 122375.	2.0	13
31	Efficient electrocatalytic conversion of N₂ to NH₃ on NiWO₄ under ambient conditions. Nanoscale, 2020, 12, 1478-1483.	2.8	23
32	Bimetallic metalâ€“organic framework-derived MoFe-PC microspheres for electrocatalytic ammonia synthesis under ambient conditions. Journal of Materials Chemistry A, 2020, 8, 2099-2104.	5.2	55
33	Confined growth of porous nitrogen-doped cobalt oxide nanoarrays as bifunctional oxygen electrocatalysts for rechargeable zincâ€“air batteries. Energy Storage Materials, 2020, 26, 157-164.	9.5	79
34	Surface and Interfacial Chemistry in the Nickelâ€Rich Cathode Materials. Batteries and Supercaps, 2020, 3, 309-322.	2.4	29
35	Fe_xNi_y/CeO₂ loaded on N-doped nanocarbon as an advanced bifunctional electrocatalyst for the overall water splitting. Inorganic Chemistry Frontiers, 2020, 7, 470-476.	3.0	27
36	Strategic Pore Architecture for Accommodating Volume Change from High Si Content in Lithiumâ€Ion Battery Anodes. Advanced Energy Materials, 2020, 10, 1903400.	10.2	50

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37	Fully Conjugated Phthalocyanine Copper Metalâ€“Organic Frameworks for Sodiumâ€“Iodine Batteries with Longâ€Timeâ€Cycling Durability. Advanced Materials, 2020, 32, e1905361.	11.1	143
38	Unveiling Nickel Chemistry in Stabilizing Highâ€Voltage Cobaltâ€Rich Cathodes for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 1907903.	7.8	107
39	Calenderingâ€Compatible Macroporous Architecture for Siliconâ€“Graphite Composite toward Highâ€Energy Lithiumâ€Ion Batteries. Advanced Materials, 2020, 32, e2003286.	11.1	111
40	Stress Relief Principle of Micronâ€Sized Anodes with Large Volume Variation for Practical Highâ€Energy Lithiumâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 2004841.	7.8	37
41	Scalable Synthesis of Hollow Î²-SiC/Si Anodes via Selective Thermal Oxidation for Lithium-Ion Batteries. ACS Nano, 2020, 14, 11548-11557.	7.3	32
42	High energy density anodes using hybrid Li intercalation and plating mechanisms on natural graphite. Energy and Environmental Science, 2020, 13, 3723-3731.	15.6	44
43	Boosting Reaction Homogeneity in Highâ€Energy Lithiumâ€Ion Battery Cathode Materials. Advanced Materials, 2020, 32, e2003040.	11.1	130
44	Evaluation of the Volumetric Activity of the Air Electrode in a Zincâ€“Air Battery Using a Nitrogen and Sulfur Co-doped Metal-free Electrocatalyst. ACS Applied Materials & Interfaces, 2020, 12, 57064-57070.	4.0	6
45	Improvements to the Overpotential of Allâ€Solidâ€State Lithiumâ€Ion Batteries during the Past Ten Years. Advanced Energy Materials, 2020, 10, 2000904.	10.2	45
46	Fe, Al-co-doped NiSe₂ nanoparticles on reduced graphene oxide as an efficient bifunctional electrocatalyst for overall water splitting. Nanoscale, 2020, 12, 13680-13687.	2.8	42
47	Exploring the artificially induced nonstoichiometric effect of Li₂RuO₃ as a reactive promoter on electrocatalytic behavior. Energy and Environmental Science, 2020, 13, 2167-2177.	15.6	26
48	Unraveling the Rapid Redox Behavior of Liâ€Excess 3dâ€Transition Metal Oxides for High Rate Capability. Advanced Energy Materials, 2020, 10, 1904092.	10.2	14
49	Gas phase synthesis of amorphous silicon nitride nanoparticles for high-energy LIBs. Energy and Environmental Science, 2020, 13, 1212-1221.	15.6	48
50	Excessâ€Li Localization Triggers Chemical Irreversibility in Liâ€and Mnâ€Rich Layered Oxides. Advanced Materials, 2020, 32, e2001944.	11.1	43
51	Advances in Understanding Mechanisms of Perovskites and Pyrochlores as Electrocatalysts using Inâ€Situ Xâ€ray Absorption Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 15314-15324.	7.2	22
52	Cyclic Aminosilaneâ€Based Additive Ensuring Stable Electrodeâ€“Electrolyte Interfaces in Liâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2000012.	10.2	91
53	Building Highâ€Rate Nickelâ€Rich Cathodes by Selfâ€Organization of Structurally Stable Macrovoid. Advanced Science, 2020, 7, 1902844.	5.6	20
54	Advances in Understanding Mechanisms of Perovskites and Pyrochlores as Electrocatalysts using Inâ€Situ Xâ€ray Absorption Spectroscopy. Angewandte Chemie, 2020, 132, 15427-15437.	1.6	2

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55	An Antiaging Electrolyte Additive for Highâ€Energyâ€Density Lithiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2000563.	10.2	50
56	Lithiumâ€Ion Batteries: Cyclic Aminosilaneâ€Based Additive Ensuring Stable Electrodeâ€“Electrolyte Interfaces in Liâ€Ion Batteries (Adv. Energy Mater. 15/2020). Advanced Energy Materials, 2020, 10, 2070069.	10.2	2
57	Antimonyâ€Based Composites Loaded on Phosphorusâ€Doped Carbon for Boosting Faradaic Efficiency of the Electrochemical Nitrogen Reduction Reaction. Angewandte Chemie, 2019, 131, 13463-13468.	1.6	13
58	Frontispiz: Oxygen Vacancy Diffusion and Condensation in Lithiumâ€Ion Battery Cathode Materials. Angewandte Chemie, 2019, 131, .	1.6	0
59	Frontispiece: Oxygen Vacancy Diffusion and Condensation in Lithiumâ€Ion Battery Cathode Materials. Angewandte Chemie - International Edition, 2019, 58, .	7.2	0
60	Antimonyâ€Based Composites Loaded on Phosphorusâ€Doped Carbon for Boosting Faradaic Efficiency of the Electrochemical Nitrogen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 13329-13334.	7.2	108
61	Native Void Space for Maximum Volumetric Capacity in Silicon-Based Anodes. Nano Letters, 2019, 19, 8793-8800.	4.5	36
62	Towards maximized volumetric capacity via pore-coordinated design for large-volume-change lithium-ion battery anodes. Nature Communications, 2019, 10, 475.	5.8	79
63	Quantification of Pseudocapacitive Contribution in Nanocageâ€Shaped Siliconâ€“Carbon Composite Anode. Advanced Energy Materials, 2019, 9, 1803480.	10.2	75
64	Using lithium chloride as a medium to prepare N,P-codoped carbon nanosheets for oxygen reduction and evolution reactions. Inorganic Chemistry Frontiers, 2019, 6, 417-422.	3.0	5
65	Synergistic interaction of perovskite oxides and N-doped graphene in versatile electrocatalyst. Journal of Materials Chemistry A, 2019, 7, 2048-2054.	5.2	104
66	Fabrication of Lamellar Nanosphere Structure for Effective Stressâ€Management in Largeâ€Volumeâ€Variation Anodes of Highâ€Energy Lithiumâ€Ion Batteries. Advanced Materials, 2019, 31, e1900970.	11.1	52
67	Advances and Prospects of Sulfide Allâ€Solidâ€State Lithium Batteries via Oneâ€toâ€One Comparison with Conventional Liquid Lithium Ion Batteries. Advanced Materials, 2019, 31, e1900376.	11.1	119
68	Highly Efficient CO₂ Utilization via Aqueous Zincâ€“ or Aluminumâ€“CO₂ Systems for Hydrogen Gas Evolution and Electricity Production. Angewandte Chemie - International Edition, 2019, 58, 9506-9511.	7.2	33
69	Oxygen Vacancy Diffusion and Condensation in Lithiumâ€Ion Battery Cathode Materials. Angewandte Chemie, 2019, 131, 10588-10595.	1.6	45
70	Highly Efficient CO₂ Utilization via Aqueous Zincâ€“ or Aluminumâ€“CO₂ Systems for Hydrogen Gas Evolution and Electricity Production. Angewandte Chemie, 2019, 131, 9606-9611.	1.6	6
71	Oxygen Vacancy Diffusion and Condensation in Lithiumâ€Ion Battery Cathode Materials. Angewandte Chemie - International Edition, 2019, 58, 10478-10485.	7.2	97
72	Taking a Leading Role as a â€œFirst Moverâ€• to Advance Materials Science and Technology at the Ulsan National Institute of Science & Technology (UNIST). Advanced Materials, 2019, 31, 1900370.	11.1	0

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73	A High Voltage Aqueous Zincâ€“Organic Hybrid Flow Battery. Advanced Energy Materials, 2019, 9, 1900694.	10.2	97
74	Coupling a Low Loading of IrP₂, PtP₂, or Pd₃P with Heteroatom-Doped Nanocarbon for Overall Water-Splitting Cells and Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2019, 11, 16461-16473.	4.0	38
75	Atomically dispersed nickelâ€“nitrogenâ€“sulfur species anchored on porous carbon nanosheets for efficient water oxidation. Nature Communications, 2019, 10, 1392.	5.8	424
76	Cu97P3--O N /NPC as a bifunctional electrocatalyst for rechargeable zinc-air battery. Journal of Power Sources, 2019, 421, 109-115.	4.0	21
77	Fe-N-C combined with Fe100---P O N porous hollow spheres on a phosphoric acid group-rich N-doped carbon as an electrocatalyst for zinc-air battery. Applied Surface Science, 2019, 481, 498-504.	3.1	8
78	Cobaltâ€“Tanninâ€Frameworkâ€Derived Amorphous Coâˆ’P/Coâˆ’Nâˆ’C on N, P Coâ€Doped Porous Carbon with Abundant Active Moieties for Efficient Oxygen Reactions and Water Splitting. ChemSusChem, 2019, 12, 830-838.	3.6	48
79	Mn_x(PO₄)_y/NPC As a High Performance Bifunctional Electrocatalyst for Oxygen Electrode Reactions. ChemCatChem, 2019, 11, 1222-1227.	1.8	10
80	Advanced Technologies for Highâ€Energy Aluminumâ€“Air Batteries. Advanced Materials, 2019, 31, e1804784.	11.1	125
81	A Metalâ€Free N and Pâ€Codoped Carbon Nanosphere as Bifunctional Electrocatalyst for Rechargeable Zincâ€Air Batteries. ChemElectroChem, 2019, 6, 393-397.	1.7	26
82	A Tannic Acidâ€“Derived Nâ€, Pâ€Codoped Carbonâ€Supported Ironâ€Based Nanocomposite as an Advanced Trifunctional Electrocatalyst for the Overall Water Splitting Cells and Zincâ€“Air Batteries. Advanced Energy Materials, 2019, 9, 1803312.	10.2	209
83	Robust Pitch on Silicon Nanolayerâ€“Embedded Graphite for Suppressing Undesirable Volume Expansion. Advanced Energy Materials, 2019, 9, 1803121.	10.2	107
84	Recent Advances in Low-Cost, Highly Efficient Bi-Functional Oxygen Electrocatalysts for High-Performance Zinc-Air Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
85	Unraveling the Rapid Redox Reactions through Superstructure of Lithium-Excess Layered Oxides. ECS Meeting Abstracts, 2019, , .	0.0	0
86	Robust Design of Silicon/Graphite Composite Via Atomic-Scale Rearrangement for High Performance Lithium Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
87	Structural Distribution of Redox-Active Oxygen Governing Chemical Reversibility in Li- and Mn-Rich Layered Oxides. ECS Meeting Abstracts, 2019, , .	0.0	0
88	Toward Maximized Volumetric Energy Density Using Graphite Via Polymer Coating with High Degree of Electrolyte Impregnation. ECS Meeting Abstracts, 2019, , .	0.0	0
89	A Novel Si/C Composite as a High Capacity Anode Material for Lithium-ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
90	(Invited) Beyond Si and SiO x : SiN x and SiC x Anode Materials for Lithium-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0

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91	Exploring Critical Factors Affecting Strain Distribution in 1D Siliconâ€Based Nanostructures for Lithiumâ€Ion Battery Anodes. Advanced Materials, 2018, 30, e1705430.	11.1	113
92	Unsymmetrical fluorinated malonatoborate as an amphoteric additive for high-energy-density lithium-ion batteries. Energy and Environmental Science, 2018, 11, 1552-1562.	15.6	154
93	A highly stabilized nickel-rich cathode material by nanoscale epitaxy control for high-energy lithium-ion batteries. Energy and Environmental Science, 2018, 11, 1449-1459.	15.6	213
94	Issues and Challenges Facing Flexible Lithiumâ€Ion Batteries for Practical Application. Small, 2018, 14, e1702989.	5.2	152
95	Controllable Solid Electrolyte Interphase in Nickelâ€Rich Cathodes by an Electrochemical Rearrangement for Stable Lithiumâ€Ion Batteries. Advanced Materials, 2018, 30, 1704309.	11.1	81
96	Prospect and Reality of Niâ€Rich Cathode for Commercialization. Advanced Energy Materials, 2018, 8, 1702028.	10.2	574
97	Efficient CO2 Utilization via a Hybrid Na-CO2 System Based on CO2 Dissolution. IScience, 2018, 9, 278-285.	1.9	40
98	Zinc-Air Batteries: A Ternary Ni46 Co40 Fe14 Nanoalloy-Based Oxygen Electrocatalyst for Highly Efficient Rechargeable Zinc-Air Batteries (Adv. Mater. 46/2018). Advanced Materials, 2018, 30, 1870346.	11.1	1
99	Electrocatalysts: Low Loading of Rh x P and RuP on N, P Codoped Carbon as Two Trifunctional Electrocatalysts for the Oxygen and Hydrogen Electrode Reactions (Adv. Energy Mater. 29/2018). Advanced Energy Materials, 2018, 8, 1870130.	10.2	4
100	A Ternary Ni₄₆Co₄₀Fe₁₄ Nanoalloyâ€Based Oxygen Electrocatalyst for Highly Efficient Rechargeable Zincâ€“Air Batteries. Advanced Materials, 2018, 30, e1803372.	11.1	73
101	Correlation of Low-Index Facets to Active Sites in Micrometer-Sized Polyhedral Pyrochlore Electrocatalyst. ACS Catalysis, 2018, 8, 9647-9655.	5.5	11
102	A Tailored Bifunctional Electrocatalyst: Boosting Oxygen Reduction/Evolution Catalysis via Electron Transfer Between Nâ€Doped Graphene and Perovskite Oxides. Small, 2018, 14, e1802767.	5.2	85
103	Seed-mediated atomic-scale reconstruction of silver manganate nanoplates for oxygen reduction towards high-energy aluminum-air flow batteries. Nature Communications, 2018, 9, 3715.	5.8	77
104	Flexible 3D Interlocking Lithiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1801917.	10.2	38
105	NiFe (Oxy) Hydroxides Derived from NiFe Disulfides as an Efficient Oxygen Evolution Catalyst for Rechargeable Znâ€“Air Batteries: The Effect of Surface S Residues. Advanced Materials, 2018, 30, e1800757.	11.1	219
106	Nonaqueous arylated quinone catholytes for lithiumâ€“organic flow batteries. Journal of Materials Chemistry A, 2018, 6, 14761-14768.	5.2	13
107	Influence of Surface Charges/Chemistry on the Catalysis of Perovskite Complexes. ACS Applied Materials & Interfaces, 2018, 10, 28502-28508.	4.0	4
108	Mechanical mismatch-driven rippling in carbon-coated silicon sheets for stress-resilient battery anodes. Nature Communications, 2018, 9, 2924.	5.8	94

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109	Highly active bifunctional oxygen electrocatalysts derived from nickelâ€“ or cobaltâ€“phytic acid xerogel for zincâ€“air batteries. Nanoscale, 2018, 10, 15834-15841.	2.8	31
110	Low Loading of Rh_xP and RuP on N, P Codoped Carbon as Two Trifunctional Electrocatalysts for the Oxygen and Hydrogen Electrode Reactions. Advanced Energy Materials, 2018, 8, 1801478.	10.2	173
111	Understanding voltage decay in lithium-excess layered cathode materials through oxygen-centred structural arrangement. Nature Communications, 2018, 9, 3285.	5.8	119
112	Enhanced Long-Term Cycling Performance of Single Crystalline LiCo0.95Ni0.05O2 cathode Material at High Cut-Off Voltage in Li-Ion Cell. ECS Meeting Abstracts, 2018, , .	0.0	0
113	(Invited) A New Type of Ni-Doped LiCoO2 with Enhanced Structural and Electrochemical Reversibility at High Voltage. ECS Meeting Abstracts, 2018, , .	0.0	0
114	Postpatterned Electrodes for Flexible Nodeâ€Type Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605773.	11.1	40
115	Liâ€Ion Cells: Surface Engineering Strategies of Layered LiCoO₂ Cathode Material to Realize Highâ€Energy and Highâ€Voltage Liâ€Ion Cells (Adv. Energy Mater. 1/2017). Advanced Energy Materials, 2017, 7, .	10.2	5
116	Selfâ€Induced Concentration Gradient in Nickelâ€Rich Cathodes by Sacrificial Polymeric Bead Clusters for Highâ€Energy Lithiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1602559.	10.2	80
117	Stabilization of Li Metal Anode in DMSOâ€Based Electrolytes via Optimization of Saltâ€“Solvent Coordination for Liâ€“O₂ Batteries. Advanced Energy Materials, 2017, 7, 1602605.	10.2	99
118	Feasibility of Cathode Surface Coating Technology for Highâ€Energy Lithiumâ€Ion and Beyondâ€Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605807.	11.1	168
119	Oneâ€toâ€One Comparison of Graphiteâ€Blended Negative Electrodes Using Silicon Nanolayerâ€Embedded Graphite versus Commercial Benchmarking Materials for Highâ€Energy Lithiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1700071.	10.2	100
120	Low-Temperature Carbon Coating of Nanosized Li_{1.015}Al_{0.06}Mn_{1.925}O₄ and High-Density Electrode for High-Power Li-Ion Batteries. Nano Letters, 2017, 17, 3744-3751.	4.5	45
121	Mechanisms for electrochemical performance enhancement by the salt-type electrolyte additive, lithium difluoro(oxalato)borate, in high-voltage lithium-ion batteries. Journal of Power Sources, 2017, 357, 97-106.	4.0	127
122	Dynamic behaviour of interphases and its implication on high-energy-density cathode materials in lithium-ion batteries. Nature Communications, 2017, 8, 14589.	5.8	306
123	Integrated Hierarchical Cobalt Sulfide/Nickel Selenide Hybrid Nanosheets as an Efficient Three-dimensional Electrode for Electrochemical and Photoelectrochemical Water Splitting. Nano Letters, 2017, 17, 4202-4209.	4.5	263
124	Unveiling the Catalytic Origin of Nanocrystalline Yttrium Ruthenate Pyrochlore as a Bifunctional Electrocatalyst for Znâ€“Air Batteries. Nano Letters, 2017, 17, 3974-3981.	4.5	80
125	Critical Role of Cations in Lithium Sites on Extended Electrochemical Reversibility of Coâ€Rich Layered Oxide. Advanced Materials, 2017, 29, 1605578.	11.1	57
126	Single crystalline pyrochlore nanoparticles with metallic conduction as efficient bi-functional oxygen electrocatalysts for Znâ€“air batteries. Energy and Environmental Science, 2017, 10, 129-136.	15.6	154

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127	Significance of ferroelectric polarization in poly (vinylidene difluoride) binder for high-rate Li-ion diffusion. Nano Energy, 2017, 32, 255-262.	8.2	61
128	Interfacial Architectures Derived by Lithium Difluoro(bisoxalato) Phosphate for Lithium-Rich Cathodes with Superior Cycling Stability and Rate Capability. ChemElectroChem, 2017, 4, 3-3.	1.7	4
129	Liâ€•and Mnâ€Rich Cathode Materials: Challenges to Commercialization. Advanced Energy Materials, 2017, 7, 1601284.	10.2	383
130	Temperature Dependence of the Oxygen Reduction Mechanism in Nonaqueous Liâ€“O₂ Batteries. ACS Energy Letters, 2017, 2, 2525-2530.	8.8	30
131	Fast-charging high-energy lithium-ion batteries via implantation of amorphous silicon nanolayer in edge-plane activated graphite anodes. Nature Communications, 2017, 8, 812.	5.8	274
132	Recent progress of analysis techniques for silicon-based anode of lithium-ion batteries. Current Opinion in Electrochemistry, 2017, 6, 77-83.	2.5	16
133	A Highly Efficient and Robust Cation Ordered Perovskite Oxide as a Bifunctional Catalyst for Rechargeable Zinc-Air Batteries. ACS Nano, 2017, 11, 11594-11601.	7.3	219
134	Precious metal-free approach to hydrogen electrocatalysis for energy conversion: From mechanism understanding to catalyst design. Nano Energy, 2017, 42, 69-89.	8.2	157
135	Confronting Issues of the Practical Implementation of Si Anode in High-Energy Lithium-Ion Batteries. Joule, 2017, 1, 47-60.	11.7	329
136	Lithiumâ€Oxygen Batteries: Stabilization of Li Metal Anode in DMSOâ€Based Electrolytes via Optimization of Saltâ€“Solvent Coordination for Liâ€“O₂ Batteries (Adv. Energy Mater. 14/2017). Advanced Energy Materials, 2017, 7, .	10.2	11
137	Simultaneous surface modification method for 0.4Li2MnO3-0.6LiNi1/3Co1/3Mn1/3O2 cathode material for lithium ion batteries: Acid treatment and LiCoPO4 coating. Nano Research, 2017, 10, 4210-4220.	5.8	30
138	Material design and engineering of next-generation flow-battery technologies. Nature Reviews Materials, 2017, 2, .	23.3	559
139	Surface Engineering Strategies of Layered LiCoO₂ Cathode Material to Realize Highâ€Energy and Highâ€Voltage Liâ€Ion Cells. Advanced Energy Materials, 2017, 7, 1601507.	10.2	257
140	Interfacial Architectures Derived by Lithium Difluoro(bisoxalato) Phosphate for Lithiumâ€Rich Cathodes with Superior Cycling Stability and Rate Capability. ChemElectroChem, 2017, 4, 56-65.	1.7	45
141	Enhanced Intrinsic Catalytic Activity of Î»â€MnO₂ by Electrochemical Tuning and Oxygen Vacancy Generation. Angewandte Chemie - International Edition, 2016, 55, 8599-8604.	7.2	107
142	Enhancing Interfacial Bonding between Anisotropically Oriented Grains Using a Glueâ€Nanofiller for Advanced Liâ€Ion Battery Cathode. Advanced Materials, 2016, 28, 4705-4712.	11.1	106
143	Li-Ion Battery Cathodes: Enhancing Interfacial Bonding between Anisotropically Oriented Grains Using a Glue-Nanofiller for Advanced Li-Ion Battery Cathode (Adv. Mater. 23/2016). Advanced Materials, 2016, 28, 4704-4704.	11.1	3
144	Enhanced Intrinsic Catalytic Activity of Î»â€MnO₂ by Electrochemical Tuning and Oxygen Vacancy Generation. Angewandte Chemie, 2016, 128, 8741-8746.	1.6	18

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