

# Jaephil Cho

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

371  
papers

44,101  
citations

109  
h-index

200  
g-index

409  
ext. papers

49,144  
ext. citations

13.9  
avg, IF

7.95  
L-index

#	Paper	IF	Citations
371	Ru-incorporated oxygen-vacancy-enriched MoO <sub>2</sub> electrocatalysts for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 307, 121204	21.8	8
370	The synergistic effect of Hf-O-Ru bonds and oxygen vacancies in Ru/HfO for enhanced hydrogen evolution.. <i>Nature Communications</i> , <b>2022</b> , 13, 1270	17.4	16
369	Subnano-sized silicon anode via crystal growth inhibition mechanism and its application in a prototype battery pack. <i>Nature Energy</i> , <b>2021</b> , 6, 1164-1175	62.3	14
368	Three-dimensional hierarchical Co(OH)F nanosheet arrays decorated by single-atom Ru for boosting oxygen evolution reaction. <i>Science China Materials</i> , <b>2021</b> , 64, 1408-1417	7.1	4
367	Lattice-Oxygen-Stabilized Li- and Mn-Rich Cathodes with Sub-Micrometer Particles by Modifying the Excess-Li Distribution. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100352	24	8
366	Reactive boride infusion stabilizes Ni-rich cathodes for lithium-ion batteries. <i>Nature Energy</i> , <b>2021</b> , 6, 362-371	67.1	84
365	A Dry Room-Free High-Energy Density Lithium-ion Batteries Enabled by Impurity Scavenging Separator Membrane. <i>Energy Storage Materials</i> , <b>2021</b> , 36, 355-364	19.4	8
364	Exploring the Dominant Role of Atomic- and Nano-Ruthenium as Active Sites for Hydrogen Evolution Reaction in Both Acidic and Alkaline Media. <i>Advanced Science</i> , <b>2021</b> , 8, e2004516	13.6	16
363	Ru atom-modified Co <sub>4</sub> N-CoF <sub>2</sub> heterojunction catalyst for high-performance alkaline hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2021</b> , 414, 128865	14.7	12
362	Sodium-Decorated Amorphous/Crystalline RuO <sub>2</sub> with Rich Oxygen Vacancies: A Robust pH-Universal Oxygen Evolution Electrocatalyst. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 18969-18977	3.6	2
361	The Heterostructure of Ru P/WO <sub>3</sub> /NPC Synergistically Promotes H <sub>2</sub> O Dissociation for Improved Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4110-4116	16.4	48
360	The Heterostructure of Ru <sub>2</sub> P/WO <sub>3</sub> /NPC Synergistically Promotes H <sub>2</sub> O Dissociation for Improved Hydrogen Evolution. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4156-4162	3.6	10
359	Recent Advances and Prospects of Atomic Substitution on Layered Positive Materials for Lithium-Ion Battery. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003197	21.8	10
358	Alloy-strain-output induced lattice dislocation in Ni <sub>3</sub> FeN/Ni <sub>3</sub> Fe ultrathin nanosheets for highly efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 4036-4043	13	22
357	Metal-Ion Chelating Gel Polymer Electrolyte for Ni-Rich Layered Cathode Materials at a High Voltage and an Elevated Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 9965-9974	9.5	6
356	Replacing conventional battery electrolyte additives with dioxolone derivatives for high-energy-density lithium-ion batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 838	17.4	30
355	Sodium-Decorated Amorphous/Crystalline RuO with Rich Oxygen Vacancies: A Robust pH-Universal Oxygen Evolution Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 18821-18829	16.4	63

354	SrIrO <sub>3</sub> modified with laminar Sr <sub>2</sub> IrO <sub>4</sub> as a robust bifunctional electrocatalyst for overall water splitting in acidic media. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129604	14.7	6
353	Reliable protocols for calculating the specific energy and energy density of Li-Ion batteries. <i>Materials Today Energy</i> , <b>2021</b> , 21, 100838	7	2
352	Getting La Effect from La <sub>3</sub> IrO <sub>7</sub> as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction in Acid Media. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003561	21.8	11
351	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 &amp; Interfaces</i> , <b>2020</b> , 12, 57064-57070	9.5	3
350	Improvements to the Overpotential of All-Solid-State Lithium-Ion Batteries during the Past Ten Years. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000904	21.8	15
349	Fe, Al-co-doped NiSe nanoparticles on reduced graphene oxide as an efficient bifunctional electrocatalyst for overall water splitting. <i>Nanoscale</i> , <b>2020</b> , 12, 13680-13687	7.7	15
348	Exploring the artificially induced nonstoichiometric effect of Li <sub>2</sub> RuO <sub>3</sub> as a reactive promoter on electrocatalytic behavior. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2167-2177	35.4	17
347	Unraveling the Rapid Redox Behavior of Li-Excess 3d-Transition Metal Oxides for High Rate Capability. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904092	21.8	7
346	Gas phase synthesis of amorphous silicon nitride nanoparticles for high-energy LIBs. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1212-1221	35.4	26
345	Excess-Li Localization Triggers Chemical Irreversibility in Li- and Mn-Rich Layered Oxides. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001944	24	17
344	Advances in Understanding Mechanisms of Perovskites and Pyrochlores as Electrocatalysts using In-Situ X-ray Absorption Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15314-15324	16.4	12
343	Cyclic Aminosilane-Based Additive Ensuring Stable Electrode/Electrolyte Interfaces in Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000012	21.8	36
342	Building High-Rate Nickel-Rich Cathodes by Self-Organization of Structurally Stable Macrovoid. <i>Advanced Science</i> , <b>2020</b> , 7, 1902844	13.6	11
341	Advances in Understanding Mechanisms of Perovskites and Pyrochlores as Electrocatalysts using In-Situ X-ray Absorption Spectroscopy. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15427-15437	3.6	0
340	An Antiaging Electrolyte Additive for High-Energy-Density Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000563	21.8	24
339	In-situ formed N doped bamboo-like carbon nanotube decorated with Fe <sub>3</sub> Ni <sub>2</sub> nanoparticles as efficient electrocatalysts for overall water-splitting. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 241, 122375	4.4	9
338	Efficient electrocatalytic conversion of N to NH on NiWO under ambient conditions. <i>Nanoscale</i> , <b>2020</b> , 12, 1478-1483	7.7	12
337	Bimetallic metal-organic framework-derived MoFe-PC microspheres for electrocatalytic ammonia synthesis under ambient conditions. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2099-2104	13	23

336	Confined growth of porous nitrogen-doped cobalt oxide nanoarrays as bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 157-164	19.4	52
335	Surface and Interfacial Chemistry in the Nickel-Rich Cathode Materials. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 309-322	5.6	16
334	FexNiy/CeO2 loaded on N-doped nanocarbon as an advanced bifunctional electrocatalyst for the overall water splitting. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 470-476	6.8	17
333	Strategic Pore Architecture for Accommodating Volume Change from High Si Content in Lithium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903400	21.8	22
332	Fully Conjugated Phthalocyanine Copper Metal-Organic Frameworks for Sodium-Iodine Batteries with Long-Time-Cycling Durability. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905361	24	83
331	Unveiling Nickel Chemistry in Stabilizing High-Voltage Cobalt-Rich Cathodes for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907903	15.6	51
330	Calendering-Compatible Macroporous Architecture for Silicon-Graphite Composite toward High-Energy Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003286	24	54
329	Stress Relief Principle of Micron-Sized Anodes with Large Volume Variation for Practical High-Energy Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004841	15.6	13
328	Scalable Synthesis of Hollow SiC/Si Anodes Selective Thermal Oxidation for Lithium-Ion Batteries. <i>ACS Nano</i> , <b>2020</b> , 14, 11548-11557	16.7	11
327	High energy density anodes using hybrid Li intercalation and plating mechanisms on natural graphite. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3723-3731	35.4	21
326	Boosting Reaction Homogeneity in High-Energy Lithium-Ion Battery Cathode Materials. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003040	24	51
325	Integration of Graphite and Silicon Anodes for the Commercialization of High-Energy Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 110-135	16.4	207
324	Graphit- und-Silicium-Anoden für Lithiumionen- Hochenergiebatterien. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 112-138	3.6	10
323	Lithium-Ion Batteries: Cyclic Aminosilane-Based Additive Ensuring Stable Electrode-Electrolyte Interfaces in Li-Ion Batteries (Adv. Energy Mater. 15/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070069	21.8	0
322	Towards maximized volumetric capacity via pore-coordinated design for large-volume-change lithium-ion battery anodes. <i>Nature Communications</i> , <b>2019</b> , 10, 475	17.4	59
321	Quantification of Pseudocapacitive Contribution in Nanocage-Shaped Silicon-Carbon Composite Anode. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803480	21.8	49
320	Using lithium chloride as a medium to prepare N,P-codoped carbon nanosheets for oxygen reduction and evolution reactions. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 417-422	6.8	2
319	Synergistic interaction of perovskite oxides and N-doped graphene in versatile electrocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2048-2054	13	77

318	Fabrication of Lamellar Nanosphere Structure for Effective Stress-Management in Large-Volume-Variation Anodes of High-Energy Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900970	24	28
317	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> , <b>2019</b> , 31, e1900376	24	70
316	Highly Efficient CO Utilization via Aqueous Zinc- or Aluminum-CO Systems for Hydrogen Gas Evolution and Electricity Production. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9506-9511	16.4	21
315	Oxygen Vacancy Diffusion and Condensation in Lithium-Ion Battery Cathode Materials. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 10588-10595	3.6	28
314	Highly Efficient CO <sub>2</sub> Utilization via Aqueous Zinc/Aluminum-CO <sub>2</sub> Systems for Hydrogen Gas Evolution and Electricity Production. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9606-9611	3.6	0
313	Oxygen Vacancy Diffusion and Condensation in Lithium-Ion Battery Cathode Materials. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10478-10485	16.4	41
312	A High Voltage Aqueous Zinc/Organic Hybrid Flow Battery. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900694	21.8	56
311	Coupling a Low Loading of IrP, PtP, or PdP with Heteroatom-Doped Nanocarbon for Overall Water-Splitting Cells and Zinc-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16461-16473	9.5	24
310	Atomically dispersed nickel-nitrogen-sulfur species anchored on porous carbon nanosheets for efficient water oxidation. <i>Nature Communications</i> , <b>2019</b> , 10, 1392	17.4	280
309	Cu <sub>97</sub> P <sub>3-x-y</sub> O <sub>x</sub> N <sub>y</sub> /NPC as a bifunctional electrocatalyst for rechargeable zinc-air battery. <i>Journal of Power Sources</i> , <b>2019</b> , 421, 109-115	8.9	16
308	Fe-N-C combined with Fe <sub>100-x-y-z</sub> P <sub>x</sub> O <sub>y</sub> N <sub>z</sub> porous hollow spheres on a phosphoric acid group-rich N-doped carbon as an electrocatalyst for zinc-air battery. <i>Applied Surface Science</i> , <b>2019</b> , 481, 498-504	6.7	6
307	Antimony-Based Composites Loaded on Phosphorus-Doped Carbon for Boosting Faradaic Efficiency of the Electrochemical Nitrogen Reduction Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13463-13468	3.6	9
306	Antimony-Based Composites Loaded on Phosphorus-Doped Carbon for Boosting Faradaic Efficiency of the Electrochemical Nitrogen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13329-13334	16.4	71
305	Native Void Space for Maximum Volumetric Capacity in Silicon-Based Anodes. <i>Nano Letters</i> , <b>2019</b> , 19, 8793-8800	11.5	22
304	Cobalt-Tannin-Framework-Derived Amorphous Co-P/Co-N-C on N, P Co-Doped Porous Carbon with Abundant Active Moieties for Efficient Oxygen Reactions and Water Splitting. <i>ChemSusChem</i> , <b>2019</b> , 12, 830-838	8.3	32
303	Mnx(PO <sub>4</sub> )y/NPC As a High Performance Bifunctional Electrocatalyst for Oxygen Electrode Reactions. <i>ChemCatChem</i> , <b>2019</b> , 11, 1222-1227	5.2	7
302	Advanced Technologies for High-Energy Aluminum-Air Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804784	44	76
301	A Metal-Free N and P-Codoped Carbon Nanosphere as Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 393-397	4.3	20

300	A Tannic Acid-Derived N-, P-Codoped Carbon-Supported Iron-Based Nanocomposite as an Advanced Trifunctional Electrocatalyst for the Overall Water Splitting Cells and Zinc-Air Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803312	21.8	138
299	Robust Pitch on Silicon Nanolayer-Embedded Graphite for Suppressing Undesirable Volume Expansion. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803121	21.8	60
298	Exploring Critical Factors Affecting Strain Distribution in 1D Silicon-Based Nanostructures for Lithium-Ion Battery Anodes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705430	24	78
297	Unsymmetrical fluorinated malonateborate as an amphoteric additive for high-energy-density lithium-ion batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1552-1562	35.4	96
296	A highly stabilized nickel-rich cathode material by nanoscale epitaxy control for high-energy lithium-ion batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1449-1459	35.4	151
295	Issues and Challenges Facing Flexible Lithium-Ion Batteries for Practical Application. <i>Small</i> , <b>2018</b> , 14, e1702989	11	99
294	Influence of Surface Charges/Chemistry on the Catalysis of Perovskite Complexes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28502-28508	9.5	4
293	Mechanical mismatch-driven rippling in carbon-coated silicon sheets for stress-resilient battery anodes. <i>Nature Communications</i> , <b>2018</b> , 9, 2924	17.4	69
292	Highly active bifunctional oxygen electrocatalysts derived from nickel- or cobalt-phytic acid xerogel for zinc-air batteries. <i>Nanoscale</i> , <b>2018</b> , 10, 15834-15841	7.7	20
291	Low Loading of RhxP and RuP on N, P Codoped Carbon as Two Trifunctional Electrocatalysts for the Oxygen and Hydrogen Electrode Reactions. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801478	21.8	131
290	Understanding voltage decay in lithium-excess layered cathode materials through oxygen-centred structural arrangement. <i>Nature Communications</i> , <b>2018</b> , 9, 3285	17.4	83
289	Controllable Solid Electrolyte Interphase in Nickel-Rich Cathodes by an Electrochemical Rearrangement for Stable Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704309	24	65
288	Prospect and Reality of Ni-Rich Cathode for Commercialization. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702028	21.8	391
287	Efficient CO Utilization via a Hybrid Na-CO System Based on CO Dissolution. <i>IScience</i> , <b>2018</b> , 9, 278-285	6.1	24
286	Zinc-Air Batteries: A Ternary Ni <sub>46</sub> Co <sub>40</sub> Fe <sub>14</sub> Nanoalloy-Based Oxygen Electrocatalyst for Highly Efficient Rechargeable Zinc-Air Batteries (Adv. Mater. 46/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870346	24	1
285	Electrocatalysts: Low Loading of RhxP and RuP on N, P Codoped Carbon as Two Trifunctional Electrocatalysts for the Oxygen and Hydrogen Electrode Reactions (Adv. Energy Mater. 29/2018). <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1870130	21.8	4
284	A Ternary Ni Co Fe Nanoalloy-Based Oxygen Electrocatalyst for Highly Efficient Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803372	24	58
283	Correlation of Low-Index Facets to Active Sites in Micrometer-Sized Polyhedral Pyrochlore Electrocatalyst. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9647-9655	13.1	5

282	A Tailored Bifunctional Electrocatalyst: Boosting Oxygen Reduction/Evolution Catalysis via Electron Transfer Between N-Doped Graphene and Perovskite Oxides. <i>Small</i> , <b>2018</b> , 14, e1802767	11	61
281	Seed-mediated atomic-scale reconstruction of silver manganate nanoplates for oxygen reduction towards high-energy aluminum-air flow batteries. <i>Nature Communications</i> , <b>2018</b> , 9, 3715	17.4	53
280	Flexible 3D Interlocking Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801917	21.8	17
279	NiFe (Oxy) Hydroxides Derived from NiFe Disulfides as an Efficient Oxygen Evolution Catalyst for Rechargeable Zn-Air Batteries: The Effect of Surface S Residues. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800757 <sup>24</sup>	24	153
278	Nonaqueous arylated quinone catholytes for lithium-organic flow batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 14761-14768	13	7
277	Postpatterned Electrodes for Flexible Node-Type Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605773	24	21
276	Li-Ion Cells: Surface Engineering Strategies of Layered LiCoO <sub>2</sub> Cathode Material to Realize High-Energy and High-Voltage Li-Ion Cells (Adv. Energy Mater. 1/2017). <i>Advanced Energy Materials</i> , <b>2017</b> , 7,	21.8	3
275	Self-Induced Concentration Gradient in Nickel-Rich Cathodes by Sacrificial Polymeric Bead Clusters for High-Energy Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602559	21.8	56
274	Stabilization of Li Metal Anode in DMSO-Based Electrolytes via Optimization of Salt-Solvent Coordination for LiO <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602605	21.8	78
273	Feasibility of Cathode Surface Coating Technology for High-Energy Lithium-ion and Beyond-Lithium-ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605807	24	125
272	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> , <b>2017</b> , 7, 1700071	21.8	60
271	Low-Temperature Carbon Coating of Nanosized LiAlMnO and High-Density Electrode for High-Power Li-Ion Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 3744-3751	11.5	35
270	Mechanisms for electrochemical performance enhancement by the salt-type electrolyte additive, lithium difluoro(oxalato)borate, in high-voltage lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 357, 97-106	8.9	85
269	Dynamic behaviour of interphases and its implication on high-energy-density cathode materials in lithium-ion batteries. <i>Nature Communications</i> , <b>2017</b> , 8, 14589	17.4	220
268	Integrated Hierarchical Cobalt Sulfide/Nickel Selenide Hybrid Nanosheets as an Efficient Three-dimensional Electrode for Electrochemical and Photoelectrochemical Water Splitting. <i>Nano Letters</i> , <b>2017</b> , 17, 4202-4209	11.5	216
267	Unveiling the Catalytic Origin of Nanocrystalline Yttrium Ruthenate Pyrochlore as a Bifunctional Electrocatalyst for Zn-Air Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 3974-3981	11.5	59
266	Critical Role of Cations in Lithium Sites on Extended Electrochemical Reversibility of Co-Rich Layered Oxide. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605578	24	38
265	Single crystalline pyrochlore nanoparticles with metallic conduction as efficient bi-functional oxygen electrocatalysts for Zn-air batteries. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 129-136	35.4	121

264	Significance of ferroelectric polarization in poly (vinylidene difluoride) binder for high-rate Li-ion diffusion. <i>Nano Energy</i> , <b>2017</b> , 32, 255-262	17.1	38
263	Interfacial Architectures Derived by Lithium Difluoro(bisoxalato) Phosphate for Lithium-Rich Cathodes with Superior Cycling Stability and Rate Capability. <i>ChemElectroChem</i> , <b>2017</b> , 4, 3-3	4.3	2
262	Li- and Mn-Rich Cathode Materials: Challenges to Commercialization. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601284	21.8	266
261	Temperature Dependence of the Oxygen Reduction Mechanism in Nonaqueous LiD <sub>2</sub> Batteries. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2525-2530	20.1	20
260	Fast-charging high-energy lithium-ion batteries via implantation of amorphous silicon nanolayer in edge-plane activated graphite anodes. <i>Nature Communications</i> , <b>2017</b> , 8, 812	17.4	181
259	Recent progress of analysis techniques for silicon-based anode of lithium-ion batteries. <i>Current Opinion in Electrochemistry</i> , <b>2017</b> , 6, 77-83	7.2	12
258	A Highly Efficient and Robust Cation Ordered Perovskite Oxide as a Bifunctional Catalyst for Rechargeable Zinc-Air Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 11594-11601	16.7	170
257	Precious metal-free approach to hydrogen electrocatalysis for energy conversion: From mechanism understanding to catalyst design. <i>Nano Energy</i> , <b>2017</b> , 42, 69-89	17.1	109
256	Confronting Issues of the Practical Implementation of Si Anode in High-Energy Lithium-Ion Batteries. <i>Joule</i> , <b>2017</b> , 1, 47-60	27.8	186
255	Lithium-Oxygen Batteries: Stabilization of Li Metal Anode in DMSO-Based Electrolytes via Optimization of Salt/Solvent Coordination for LiD <sub>2</sub> Batteries (Adv. Energy Mater. 14/2017). <i>Advanced Energy Materials</i> , <b>2017</b> , 7,	21.8	5
254	Simultaneous surface modification method for 0.4Li <sub>2</sub> MnO <sub>3</sub> -0.6LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode material for lithium ion batteries: Acid treatment and LiCoPO <sub>4</sub> coating. <i>Nano Research</i> , <b>2017</b> , 10, 4210-4220	19.0	25
253	Material design and engineering of next-generation flow-battery technologies. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	354
252	Surface Engineering Strategies of Layered LiCoO <sub>2</sub> Cathode Material to Realize High-Energy and High-Voltage Li-Ion Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601507	21.8	146
251	Interfacial Architectures Derived by Lithium Difluoro(bisoxalato) Phosphate for Lithium-Rich Cathodes with Superior Cycling Stability and Rate Capability. <i>ChemElectroChem</i> , <b>2017</b> , 4, 56-65	4.3	34
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247	High-performance non-spinel cobalt/manganese mixed oxide-based bifunctional electrocatalysts for rechargeable zinc/air batteries. <i>Nano Energy</i> , <b>2016</b> , 20, 315-325	17.1	158



246	Micron-sized FeCuBi ternary composite anodes for high energy Li-ion batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1251-1257	35.4	117
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243	Enhanced Intrinsic Catalytic Activity of $\delta$ MnO <sub>2</sub> by Electrochemical Tuning and Oxygen Vacancy Generation. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8599-604	16.4	82
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237	High-Performance Direct Methanol Fuel Cells with Precious-Metal-Free Cathode. <i>Advanced Science</i> , <b>2016</b> , 3, 1600140	13.6	89
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225	Hollow Silicon Nanostructures via the Kirkendall Effect. <i>Nano Letters</i> , <b>2015</b> , 15, 6914-8	11.5	56
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214	Critical Requirements for Rapid Charging of Rechargeable Al- and Li-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9452-5	16.4	51
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127	Improved Rate Capability and Thermal Stability of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> Cathode Materials via Nanoscale SiP <sub>2</sub> O <sub>7</sub> Coating. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, A1354	3.9	52
126	Ionic liquid modified graphene nanosheets anchoring manganese oxide nanoparticles as efficient electrocatalysts for Zn-Air batteries. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4148	35.4	170
125	One-dimensional (1D) nanostructured and nanocomposited LiFePO <sub>4</sub> : its perspective advantages for cathode materials of lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 19226-37	3.6	30
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123	Helical silicon/silicon oxide core-shell anodes grown onto the surface of bulk silicon. <i>Nano Letters</i> , <b>2011</b> , 11, 4324-8	11.5	73
122	Roles of nanosize in lithium reactive nanomaterials for lithium ion batteries. <i>Nano Today</i> , <b>2011</b> , 6, 28-41	17.9	356
121	Nanoparticle-Nanorod Core-Shell LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Spinel Cathodes with High Energy Density for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A841	3.9	49

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117	Porous Si anode materials for lithium rechargeable batteries. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 4009		282
116	Significant Improvement of LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> Cathodes at 60°C by SiO <sub>2</sub> Dry Coating for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A625	3.9	124
115	In situ X-ray absorption spectroscopic study for the electrochemical delithiation of a cathode LiFe <sub>0.4</sub> Mn <sub>0.6</sub> PO <sub>4</sub> material. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8876-8882	6.7	46
114	Spinel LiCo(Li)Mn(O) nanowire clusters as electrode materials. <i>ChemSusChem</i> , <b>2010</b> , 3, 1260-3	8.3	3
113	Recent Progress in Nanostructured Cathode Materials for Lithium Secondary Batteries. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3818-3834	15.6	233
112	Flexible dimensional control of high-capacity Li-ion-battery anodes: from 0D hollow to 3D porous germanium nanoparticle assemblies. <i>Advanced Materials</i> , <b>2010</b> , 22, 415-8	24	303
111	Novel core-shell Sn-Cu anodes for lithium rechargeable batteries prepared by a redox-transmetalation reaction. <i>Advanced Materials</i> , <b>2010</b> , 22, 5154-8	24	125
110	A Critical Size of Silicon Nano-Anodes for Lithium Rechargeable Batteries. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 2192-2195	3.6	51
109	A critical size of silicon nano-anodes for lithium rechargeable batteries. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2146-9	16.4	771
108	High power LiCoO <sub>2</sub> cathode materials with ultra energy density for Li-ion cells. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 992-995	5.1	55
107	LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> cathode materials prepared by TiO <sub>2</sub> nanoparticle coatings on Ni <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> (OH) <sub>2</sub> precursors. <i>Electrochimica Acta</i> , <b>2010</b> , 56, 333-339	6.7	109
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105	Reversible and High-Capacity Nanostructured Electrode Materials for Li-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1497-1514	15.6	433
104	Silicon nanotube battery anodes. <i>Nano Letters</i> , <b>2009</b> , 9, 3844-7	11.5	1228
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101	Synthesis of Nanowire and Hollow LiFePO <sub>4</sub> Cathodes for High-Performance Lithium Batteries. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4560-4564	9.6	161
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99	Air stable Al <sub>2</sub> O <sub>3</sub> -coated Li <sub>2</sub> NiO <sub>2</sub> cathode additive as a surplus current consumer in a Li-ion cell. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5880		61
98	Electrochemical and Structural Characterizations of InSb Nanoparticles Prepared Using a Sodium Naphthalenide Reduction Method. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, A825	3.9	6
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95	Superior lithium electroactive mesoporous Si@carbon core-shell nanowires for lithium battery anode material. <i>Nano Letters</i> , <b>2008</b> , 8, 3688-91	11.5	466
94	Layered Li <sub>0.88</sub> [Li <sub>0.18</sub> Co <sub>0.33</sub> Mn <sub>0.49</sub> ]O <sub>2</sub> nanowires for fast and high capacity Li-Ion storage material. <i>Nano Letters</i> , <b>2008</b> , 8, 957-61	11.5	95
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92	M <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> -Nanoparticle-Coated LiCoO <sub>2</sub> vs LiCo <sub>0.96</sub> M <sub>0.04</sub> O <sub>2</sub> (M=Mg and Zn) on Electrochemical and Storage Characteristics. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, A201	3.9	30
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21	Enhanced Structural Stability of α-LiMnO <sub>2</sub> by Sol-Gel Coating of Al <sub>2</sub> O <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2001</b> , 13, 18-20	9.6	74
20	LiCoO <sub>2</sub> Cathode Material That Does Not Show a Phase Transition from Hexagonal to Monoclinic Phase. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, A1110	3.9	201
19	LiNi <sub>0.74</sub> Co <sub>0.26</sub> -xMg <sub>x</sub> O <sub>2</sub> Cathode Material for a Li-Ion Cell. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 3089-3094	9.6	104
18	Static <sup>11</sup> B NMR studies of the short range order in alkali metal modified B <sub>2</sub> S <sub>3</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2000</b> , 270, 205-214	3.9	8
17	Electrochemical Properties and Thermal Stability of Li <sub>a</sub> Ni <sub>1-x</sub> CO <sub>x</sub> O <sub>2</sub> Cathode Materials. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 15	3.9	160
16	Novel LiCoO <sub>2</sub> Cathode Material with Al <sub>2</sub> O <sub>3</sub> Coating for a Li Ion Cell. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 3788-3791	8.7	1539
15	Enhancement of Thermal Stability of LiCoO <sub>2</sub> by LiMn <sub>2</sub> O <sub>4</sub> Coating. <i>Electrochemical and Solid-State Letters</i> , <b>1999</b> , 2, 253		78
14	Effect of Preparation Methods of LiNi <sub>1-x</sub> Co <sub>x</sub> O <sub>2</sub> Cathode Materials on Their Chemical Structure and Electrode Performance. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 3571-3576	3.9	127
13	Improvement of Structural Stability of LiMn <sub>2</sub> O <sub>4</sub> Cathode Material on 55°C Cycling by Sol-Gel Coating of LiCoO <sub>2</sub> . <i>Electrochemical and Solid-State Letters</i> , <b>1999</b> , 2, 607		87

12	Electrochemical Properties of GeS <sub>2</sub> -Based Glass-Polymer Composite Electrolytes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 1949-1952	3.9	11
11	Preparation and electrochemical properties of glass-polymer composite electrolytes for lithium batteries. <i>Electrochimica Acta</i> , <b>1997</b> , 42, 1481-1488	6.7	28
10	Density measurements of xRb <sub>2</sub> S + (1 - x)B <sub>2</sub> S <sub>3</sub> (0 ≤ x ≤ 0.75) glasses: correlation with short range order. <i>Journal of Non-Crystalline Solids</i> , <b>1996</b> , 194, 319-325	3.9	4
9	Density of xNa <sub>2</sub> S.(1 - x)B <sub>2</sub> S <sub>3</sub> (x = 0 to 0.8) Glasses: Correlation with Short-Range Order. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 3329-3335	3.8	8
8	Infrared spectroscopy of glasses and polycrystals in the series xK <sub>2</sub> S + (1-x)B <sub>2</sub> S <sub>3</sub> . <i>Journal of Non-Crystalline Solids</i> , <b>1995</b> , 182, 248-256	3.9	11
7	Density measurements of xK <sub>2</sub> S + (1 - x)B <sub>2</sub> S <sub>3</sub> (0 ≤ x ≤ 0.75) glasses: correlation with short range order. <i>Journal of Non-Crystalline Solids</i> , <b>1995</b> , 190, 244-250	3.9	5
6	Infrared spectra of lithium thioborate glasses and polycrystals. <i>Journal of Non-Crystalline Solids</i> , <b>1994</b> , 170, 182-189	3.9	11
5	Infrared Spectroscopy of Wide Composition Range xNa <sub>2</sub> S + (1 - x)B <sub>2</sub> S <sub>3</sub> Glasses. <i>Journal of the American Ceramic Society</i> , <b>1993</b> , 76, 2753-2759	3.8	13
4	IrO <sub>2</sub> /LiLa <sub>2</sub> IrO <sub>6</sub> as a Robust Electrocatalyst for Oxygen Evolution Reaction in Acidic Media. <i>Journal of Materials Chemistry A</i> ,	13	1
3	Weakened lattice-strain effect in MoO <sub>x</sub> @NPC-supported ruthenium dots toward high-efficiency hydrogen generation. <i>Journal of Materials Chemistry A</i> ,	13	2
2	Material design and surface chemistry for advanced rechargeable zinc-air batteries. <i>Chemical Science</i> ,	9.4	3
1	P and Mo Dual Doped Ru Ultrasmall Nanoclusters Embedded in P-Doped Porous Carbon toward Efficient Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2200029	21.8	8