Sooyeon Hwang

List of Publications by Year
in descending order

136 papers	14,922 citations	26610 56 h-index	18633 119 g-index
140 all docs	140 docs citations	140 times ranked	13636 citing authors

#	Article	IF	Citations
1	Single Atomic Iron Catalysts for Oxygen Reduction in Acidic Media: Particle Size Control and Thermal Activation. Journal of the American Chemical Society, 2017, 139, 14143-14149.	6.6	1,215
2	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. Nature Catalysis, 2018, 1, 935-945.	16.1	1,075
3	PdMo bimetallene for oxygen reduction catalysis. Nature, 2019, 574, 81-85.	13.7	935
4	Isolated Ni single atoms in graphene nanosheets for high-performance CO₂ reduction. Energy and Environmental Science, 2018, 11, 893-903.	15.6	811
5	Nitrogenâ€Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. Advanced Materials, 2018, 30, 1706758.	11.1	788
6	Highly active atomically dispersed CoN₄ fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. Energy and Environmental Science, 2019, 12, 250-260.	15.6	691
7	Electrolyte design for LiF-rich solidâ€“electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. Nature Energy, 2020, 5, 386-397.	19.8	621
8	Hardâ€“Soft Composite Carbon as a Longâ€Cycling and Highâ€Rate Anode for Potassiumâ€Ion Batteries. Advanced Functional Materials, 2017, 27, 1700324.	7.8	471
9	Correlating Structural Changes and Gas Evolution during the Thermal Decomposition of Charged Li_{<i>x</i>}Ni_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Materials. Chemistry of Materials, 2013, 25, 337-351.	3.2	317
10	Investigation of Changes in the Surface Structure of Li_{<i>x</i>}Ni_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Materials Induced by the Initial Charge. Chemistry of Materials, 2014, 26, 1084-1092.	3.2	308
11	Ordered Pt₃Co Intermetallic Nanoparticles Derived from Metalâ€“Organic Frameworks for Oxygen Reduction. Nano Letters, 2018, 18, 4163-4171.	4.5	304
12	Single Cobalt Sites Dispersed in Hierarchically Porous Nanofiber Networks for Durable and Highâ€Power PGMâ€Free Cathodes in Fuel Cells. Advanced Materials, 2020, 32, e2003577.	11.1	262
13	Interpenetrating Triphase Cobaltâ€Based Nanocomposites as Efficient Bifunctional Oxygen Electrocatalysts for Longâ€Lasting Rechargeable Znâ€“Air Batteries. Advanced Energy Materials, 2018, 8, 1702900.	10.2	242
14	Elucidating anionic oxygen activity in lithium-rich layered oxides. Nature Communications, 2018, 9, 947.	5.8	241
15	Highâ€Entropy Metal Sulfide Nanoparticles Promise Highâ€Performance Oxygen Evolution Reaction. Advanced Energy Materials, 2021, 11, 2002887.	10.2	226
16	3D porous graphitic nanocarbon for enhancing the performance and durability of Pt catalysts: a balance between graphitization and hierarchical porosity. Energy and Environmental Science, 2019, 12, 2830-2841.	15.6	219
17	Nanoceria-Supported Single-Atom Platinum Catalysts for Direct Methane Conversion. ACS Catalysis, 2018, 8, 4044-4048.	5.5	214
18	Electrochemical Conversion of CO₂ to Syngas with Controllable CO/H₂ Ratios over Co and Ni Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2020, 59, 3033-3037.	7.2	203

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19	Atomic Arrangement Engineering of Metallic Nanocrystals for Energy-Conversion Electrocatalysis. Joule, 2019, 3, 956-991.	11.7	197
20	Oxygen evolution reaction over catalytic single-site Co in a well-defined brookite TiO2 nanorod surface. Nature Catalysis, 2021, 4, 36-45.	16.1	189
21	Accelerating CO₂ Electroreduction to CO Over Pd Singleâ€Atom Catalyst. Advanced Functional Materials, 2020, 30, 2000407.	7.8	173
22	Mn- and N- doped carbon as promising catalysts for oxygen reduction reaction: Theoretical prediction and experimental validation. Applied Catalysis B: Environmental, 2019, 243, 195-203.	10.8	170
23	Atomically dispersed single iron sites for promoting Pt and Pt₃Co fuel cell catalysts: performance and durability improvements. Energy and Environmental Science, 2021, 14, 4948-4960.	15.6	168
24	Morphology Control of Carbon-Free Spinel NiCo₂O₄ Catalysts for Enhanced Bifunctional Oxygen Reduction and Evolution in Alkaline Media. ACS Applied Materials & Interfaces, 2017, 9, 44567-44578.	4.0	161
25	Tuning the Anodeâ€"Electrolyte Interface Chemistry for Garnetâ€Based Solidâ€State Li Metal Batteries. Advanced Materials, 2020, 32, e2000030.	11.1	156
26	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. Nature Communications, 2018, 9, 2324.	5.8	136
27	Quaternary FeCoNiMn-Based Nanocarbon Electrocatalysts for Bifunctional Oxygen Reduction and Evolution: Promotional Role of Mn Doping in Stabilizing Carbon. ACS Catalysis, 2017, 7, 8386-8393.	5.5	131
28	Lead-Free Cs₄CuSb₂Cl₁₂ Layered Double Perovskite Nanocrystals. Journal of the American Chemical Society, 2020, 142, 11927-11936.	6.6	131
29	Engineering Atomically Dispersed FeN₄ Active Sites for CO₂ Electroreduction. Angewandte Chemie - International Edition, 2021, 60, 1022-1032.	7.2	121
30	Promoting Atomically Dispersed MnN₄ Sites <i>via</i> Sulfur Doping for Oxygen Reduction: Unveiling Intrinsic Activity and Degradation in Fuel Cells. ACS Nano, 2021, 15, 6886-6899.	7.3	119
31	Effect of annealing temperature on the electrical performances of solution-processed InGaZnO thin film transistors. Thin Solid Films, 2011, 519, 5146-5149.	0.8	115
32	p-Channel Oxide Thin Film Transistors Using Solution-Processed Copper Oxide. ACS Applied Materials & Interfaces, 2013, 5, 2417-2421.	4.0	112
33	3D polymer hydrogel for high-performance atomic iron-rich catalysts for oxygen reduction in acidic media. Applied Catalysis B: Environmental, 2017, 219, 629-639.	10.8	111
34	Single crystal cathodes enabling high-performance all-solid-state lithium-ion batteries. Energy Storage Materials, 2020, 30, 98-103.	9.5	109
35	Boosting CO2 reduction on Fe-N-C with sulfur incorporation: Synergistic electronic and structural engineering. Nano Energy, 2020, 68, 104384.	8.2	106
36	Overcoming immiscibility toward bimetallic catalyst library. Science Advances, 2020, 6, eaaz6844.	4.7	105

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37	Using Real-Time Electron Microscopy To Explore the Effects of Transition-Metal Composition on the Local Thermal Stability in Charged Li_{<i>x</i>}Ni_{<i>y</i>}Mn_{<i>z</i>}Co_{1â€“<i>y</i>â€“<i>z</i>}O₂ Cathode Materials. Chemistry of Materials, 2015, 27, 3927-3935.	3.2	103
38	Coupled s-p-d Exchange in Facet-Controlled Pd3Pb Tripods Enhances Oxygen Reduction Catalysis. CheM, 2018, 4, 359-371.	5.8	100
39	Transition Metal Nitrides as Promising Catalyst Supports for Tuning CO/H₂Syngas Production from Electrochemical CO₂Reduction. Angewandte Chemie - International Edition, 2020, 59, 11345-11348.	7.2	100
40	High-performance ammonia oxidation catalysts for anion-exchange membrane direct ammonia fuel cells. Energy and Environmental Science, 2021, 14, 1449-1460.	15.6	100
41	Phase evolution of conversion-type electrode for lithium ion batteries. Nature Communications, 2019, 10, 2224.	5.8	99
42	Atomically dispersed single Ni site catalysts for high-efficiency CO₂ electroreduction at industrial-level current densities. Energy and Environmental Science, 2022, 15, 2108-2119.	15.6	99
43	Single-Iron Site Catalysts with Self-Assembled Dual-size Architecture and Hierarchical Porosity for Proton-Exchange Membrane Fuel Cells. Applied Catalysis B: Environmental, 2020, 279, 119400.	10.8	94
44	Investigating Local Degradation and Thermal Stability of Charged Nickel-Based Cathode Materials through Real-Time Electron Microscopy. ACS Applied Materials & Interfaces, 2014, 6, 15140-15147.	4.0	90
45	Stabilizing and understanding the interface between nickel-rich cathode and PEO-based electrolyte by lithium niobium oxide coating for high-performance all-solid-state batteries. Nano Energy, 2020, 78, 105107.	8.2	88
46	Atomically Dispersed Dualâ€Metal Site Catalysts for Enhanced CO₂ Reduction: Mechanistic Insight into Active Site Structures. Angewandte Chemie - International Edition, 2022, 61, .	7.2	83
47	Investigating the Reversibility of Structural Modifications of Li_{<i>x</i>}Ni_{<i>y</i>}Mn_{<i>z</i>}Co_{1â€“<i>y</i>â€“<i>z</i>}O₂ Cathode Materials during Initial Charge/Discharge, at Multiple Length Scales. Chemistry of Materials, 2015, 27, 6044-6052.	3.2	80
48	In Situ Transmission Electron Microscopy on Energyâ€Related Catalysis. Advanced Energy Materials, 2020, 10, 1902105.	10.2	78
49	Direct Observation of Defectâ€Aided Structural Evolution in a Nickelâ€Rich Layered Cathode. Angewandte Chemie - International Edition, 2020, 59, 22092-22099.	7.2	75
50	Supported and coordinated single metal site electrocatalysts. Materials Today, 2020, 37, 93-111.	8.3	71
51	A Highly Efficient Allâ€Solidâ€State Lithium/Electrolyte Interface Induced by an Energetic Reaction. Angewandte Chemie - International Edition, 2020, 59, 14003-14008.	7.2	70
52	Kinetically-Driven Phase Transformation during Lithiation in Copper Sulfide Nanoflakes. Nano Letters, 2017, 17, 5726-5733.	4.5	67
53	Avoiding Fracture in a Conversion Battery Material through Reaction with Larger Ions. Joule, 2018, 2, 1783-1799.	11.7	65
54	Deciphering Interfacial Chemical and Electrochemical Reactions of Sulfideâ€Based Allâ€Solidâ€State Batteries. Advanced Energy Materials, 2021, 11, 2100210.	10.2	63

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55	Atomic Structure Evolution of Ptâ€“Co Binary Catalysts: Single Metal Sites versus Intermetallic Nanocrystals. Advanced Materials, 2021, 33, e2106371.	11.1	62
56	Strain Coupling of Conversionâ€type Fe₃O₄ Thin Films for Lithium Ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 7813-7816.	7.2	59
57	Tuning the Activity of Oxygen in LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Battery Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 27762-27771.	4.0	58
58	Unveiling the critical role of interfacial ionic conductivity in all-solid-state lithium batteries. Nano Energy, 2020, 72, 104686.	8.2	56
59	Kinetic Phase Evolution of Spinel Cobalt Oxide during Lithiation. ACS Nano, 2016, 10, 9577-9585.	7.3	54
60	Unraveling the Voltage Decay Phenomenon in Liâ€Rich Layered Oxide Cathode of No Oxygen Activity. Advanced Energy Materials, 2019, 9, 1902258.	10.2	51
61	Multistep Lithiation of Tin Sulfide: An Investigation Using <i>in Situ</i> Electron Microscopy. ACS Nano, 2018, 12, 3638-3645.	7.3	50
62	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition. Science Advances, 2022, 8, eabm4322.	4.7	49
63	Investigation of Thermal Stability of P2â€“Na_{<i>x</i>}CoO₂ Cathode Materials for Sodium Ion Batteries Using Real-Time Electron Microscopy. ACS Applied Materials & Interfaces, 2017, 9, 18883-18888.	4.0	48
64	Effects of proton irradiation on structural and electrochemical charge storage properties of TiO₂ nanotube electrodes for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 11815-11824.	5.2	45
65	Pt alloy nanoparticles decorated on large-size nitrogen-doped graphene tubes for highly stable oxygen-reduction catalysts. Nanoscale, 2018, 10, 17318-17326.	2.8	45
66	Layered-rocksalt intergrown cathode for high-capacity zero-strain battery operation. Nature Communications, 2021, 12, 2348.	5.8	43
67	Investigating the Kinetic Effect on Structural Evolution of Li_{<i>x</i>}Ni_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Materials during the Initial Charge/Discharge. Chemistry of Materials, 2017, 29, 2708-2716.	3.2	39
68	Deciphering Dynamic Structural and Mechanistic Complexity in Cu/CeO₂/ZSM-5 Catalysts for the Reverse Water-Gas Shift Reaction. ACS Catalysis, 2020, 10, 10216-10228.	5.5	39
69	Hierarchical Polyelemental Nanoparticles as Bifunctional Catalysts for Oxygen Evolution and Reduction Reactions. Advanced Energy Materials, 2020, 10, 2001119.	10.2	39
70	Engineering Atomically Dispersed FeN₄ Active Sites for CO₂ Electroreduction. Angewandte Chemie, 2021, 133, 1035-1045.	1.6	39
71	Irregular Electrical Conduction Types in Tin Oxide Thin Films Induced by Nanoscale Phase Separation. Journal of the American Ceramic Society, 2012, 95, 324-327.	1.9	38
72	Understanding local degradation of cycled Ni-rich cathode materials at high operating temperature for Li-ion batteries. Applied Physics Letters, 2014, 105, .	1.5	37

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73	Compressive Strain Reduces the Hydrogen Evolution and Oxidation Reaction Activity of Platinum in Alkaline Solution. ACS Catalysis, 2021, 11, 8165-8173.	5.5	37
74	AgPd nanoparticles for electrocatalytic CO₂ reduction: bimetallic composition-dependent ligand and ensemble effects. Nanoscale, 2020, 12, 14068-14075.	2.8	36
75	Molybdenum Carbide Electrocatalyst In Situ Embedded in Porous Nitrogenâ€Rich Carbon Nanotubes Promotes Rapid Kinetics in Sodiumâ€Metalâ€“Sulfur Batteries. Advanced Materials, 2022, 34, e2106572.	11.1	33
76	Effect of Carbon and Binder on High Sulfur Loading Electrode for Li-S Battery Technology. Electrochimica Acta, 2017, 235, 399-408.	2.6	32
77	Atomically Dispersed Iron Cathode Catalysts Derived from Binary Ligand-Based Zeolitic Imidazolate Frameworks with Enhanced Stability for PEM Fuel Cells. Journal of the Electrochemical Society, 2019, 166, F3116-F3122.	1.3	31
78	Microscopic relaxation channels in materials for superconducting qubits. Communications Materials, 2021, 2, .	2.9	31
79	<i>In Situ</i> Electron Microscopy Investigation of Sodiation of Titanium Disulfide Nanoflakes. ACS Nano, 2019, 13, 9421-9430.	7.3	30
80	Site-Specific Sodiation Mechanisms of Selenium in Microporous Carbon Host. Nano Letters, 2020, 20, 918-928.	4.5	30
81	Electrochemical CO₂ Reduction Reaction over Cu Nanoparticles with Tunable Activity and Selectivity Mediated by Functional Groups in Polymeric Binder. Jacs Au, 2022, 2, 214-222.	3.6	29
82	Structural Evolution of Li_{<i>x</i>}Ni_{<i>y</i>}Mn_{<i>z</i>}Co_{1-y-z}O₂ Cathode Materials during High-Rate Charge and Discharge. Journal of Physical Chemistry Letters, 2017, 8, 5758-5763.	2.1	27
83	Large-diameter and heteroatom-doped graphene nanotubes decorated with transition metals as carbon hosts for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 13389-13399.	5.2	27
84	Origin of anomalous high-rate Na-ion electrochemistry in layered bismuth telluride anodes. Matter, 2021, 4, 1335-1351.	5.0	26
85	Surfactant Removal for Colloidal Nanocrystal Catalysts Mediated by N-Heterocyclic Carbenes. Journal of the American Chemical Society, 2021, 143, 2644-2648.	6.6	25
86	Determination of the mechanism and extent of surface degradation in Ni-based cathode materials after repeated electrochemical cycling. APL Materials, 2016, 4, .	2.2	24
87	Electrochemical Conversion of CO 2 to Syngas with Controllable CO/H 2 Ratios over Co and Ni Singleâ€Atom Catalysts. Angewandte Chemie, 2020, 132, 3057-3061.	1.6	22
88	Capture and Decomposition of the Nerve Agent Simulant, DMCP, Using the Zeolitic Imidazolate Framework (ZIF-8). ACS Applied Materials & Interfaces, 2020, 12, 58326-58338.	4.0	22
89	Expanded lithiation of titanium disulfide: Reaction kinetics of multi-step conversion reaction. Nano Energy, 2019, 63, 103882.	8.2	21
90	Enabling Facile Anionic Kinetics through Cationic Redox Mediator in Li-Rich Layered Cathodes. ACS Energy Letters, 2020, 5, 3535-3543.	8.8	21

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91	Colloidal synthesis and charge carrier dynamics of Cs4Cd1âˆ'Cu Sb2Cl12 (0Ââ‰ x â‰ 1) layered double perovskite nanocrystals. Matter, 2021, 4, 2936-2952.	5.0	20
92	Influence of active layer thickness and annealing in zinc oxide TFT grown by atomic layer deposition. Surface and Interface Analysis, 2010, 42, 955-958.	0.8	19
93	Mixed Cationic and Anionic Redox in Ni and Co Free Chalcogen-Based Cathode Chemistry for Li-Ion Batteries. Journal of the American Chemical Society, 2021, 143, 15732-15744.	6.6	19
94	Reversible Flat to Rippling Phase Transition in Fe Containing Layered Battery Electrode Materials. Advanced Functional Materials, 2018, 28, 1803896.	7.8	18
95	Isotopic effect on electrochemical CO₂ reduction activity and selectivity in H₂O- and D₂O-based electrolytes over palladium. Chemical Communications, 2020, 56, 106-108.	2.2	17
96	Depth-Dependent Understanding of Cathode Electrolyte Interphase (CEI) on the Layered Li-Ion Cathodes Operated at Extreme High Temperature. Chemistry of Materials, 2022, 34, 4587-4601.	3.2	17
97	Direct Identification of Mixed-Metal Centers in Metalâ€"Organic Frameworks: Cu₃(BTC)₂ Transmetalated with Rh²⁺ Ions. Journal of Physical Chemistry Letters, 2020, 11, 8138-8144.	2.1	16
98	Role of the crystallinity of ZnO films in the electrical properties of bottom-gate thin film transistors. Thin Solid Films, 2011, 519, 6801-6805.	0.8	15
99	Direct Observation of Defectâ€Aided Structural Evolution in a Nickelâ€Rich Layered Cathode. Angewandte Chemie, 2020, 132, 22276-22283.	1.6	15
100	Non-equilibrium insertion of lithium ions into graphite. Journal of Materials Chemistry A, 2021, 9, 12080-12086.	5.2	15
101	Emergent flat band electronic structure in a VSe2/Bi2Se3 heterostructure. Communications Materials, 2021, 2, .	2.9	15
102	Revealing Reaction Pathways of Collective Substituted Iron Fluoride Electrode for Lithium Ion Batteries. ACS Nano, 2020, 14, 10276-10283.	7.3	14
103	On the irreversible sodiation of tin disulfide. Nano Energy, 2021, 79, 105458.	8.2	14
104	Zn-air Batteries: Interpenetrating Triphase Cobalt-Based Nanocomposites as Efficient Bifunctional Oxygen Electrocatalysts for Long-Lasting Rechargeable Zn-Air Batteries (Adv. Energy Mater. 15/2018). Advanced Energy Materials, 2018, 8, 1870068.	10.2	13
105	Investigation of the NO reduction by CO reaction over oxidized and reduced NiO_{<i>x</i>}/CeO₂ catalysts. Catalysis Science and Technology, 2021, 11, 7850-7865.	2.1	13
106	Using<i>in situ</i>and operando methods to characterize phase changes in charged lithium nickel cobalt aluminum oxide cathode materials. Journal Physics D: Applied Physics, 2020, 53, 113002.	1.3	12
107	Rapid Atomic Ordering Transformation toward Intermetallic Nanoparticles. Nano Letters, 2022, 22, 255-262.	4.5	12
108	Transition Metal Nitrides as Promising Catalyst Supports for Tuning CO/H 2 Syngas Production from Electrochemical CO 2 Reduction. Angewandte Chemie, 2020, 132, 11441-11444.	1.6	11

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109	High-Platinum-Content Catalysts on Atomically Dispersed and Nitrogen Coordinated Single Manganese Site Carbons for Heavy-Duty Fuel Cells. Journal of the Electrochemical Society, 2022, 169, 034510.	1.3	10
110	Composition-dependent ordering transformations in Ptâ€“Fe nanoalloys. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117899119.	3.3	10
111	Porosity Development at Li-Rich Layered Cathodes in All-Solid-State Battery during <i>In Situ</i> Delithiation. Nano Letters, 2022, 22, 4905-4911.	4.5	10
112	Synthesis and Characterization of Anion-Exchange Membranes Using Semicrystalline Triblock Copolymers in Ordered and Disordered States. Macromolecules, 2020, 53, 8548-8561.	2.2	9
113	Immobilization of â€œCapping Areneâ€•Cobalt(II) Complexes on Ordered Mesoporous Carbon for Electrocatalytic Water Oxidation. ACS Catalysis, 2021, 11, 15068-15082.	5.5	8
114	Effects of Al Concentration on Microstructural Characteristics and Electrical Properties of Al-Doped ZnO Thin Films on Si Substrates by Atomic Layer Deposition. Journal of Nanoscience and Nanotechnology, 2012, 12, 5598-5603.	0.9	6
115	Degradation of Co3O4 anode in rechargeable lithium-ion battery: a semi-empirical approach to the effect of conducting material content. Journal of Solid State Electrochemistry, 2016, 20, 345-352.	1.2	6
116	Atomically Dispersed Dualâ€Metal Site Catalysts for Enhanced CO₂ Reduction: Mechanistic Insight into Active Site Structures. Angewandte Chemie, 2022, 134, .	1.6	6
117	Asymmetric Reaction Pathways of Conversion-Type Electrodes for Lithium-Ion Batteries. Chemistry of Materials, 2021, 33, 3515-3523.	3.2	5
118	Selenium infiltrated hierarchical hollow carbon spheres display rapid kinetics and extended cycling as lithium metal battery (LMB) cathodes. Journal of Materials Chemistry A, 2021, 9, 18582-18593.	5.2	5
119	Microstructural Characteristics of Tin Oxide-Based Thin Films on (0001) Al₂O₃ Substrates: Effects of Substrate Temperature and RF Power During Co-Sputtering. Journal of Nanoscience and Nanotechnology, 2014, 14, 8908-8914.	0.9	4
120	A Highly Efficient Allâ€Solidâ€State Lithium/Electrolyte Interface Induced by an Energetic Reaction. Angewandte Chemie, 2020, 132, 14107-14112.	1.6	4
121	Experimental Verification of Ir 5d Orbital States and Atomic Structures in Highly Active Amorphous Iridium Oxide Catalysts. ACS Catalysis, 2021, 11, 10084-10094.	5.5	4
122	Passive Oxide Film Growth Observed On the Atomic Scale. Advanced Materials Interfaces, 2022, 9, .	1.9	4
123	A Facile Method for Morphological Control of MgZnO Nanostructures on GaAs Substrates and Their Optical Properties. Journal of Nanoscience and Nanotechnology, 2011, 11, 7327-7330.	0.9	3
124	Real Time Observation of Lithium Insertion into Pre-Cycled Conversion-Type Materials. Nanomaterials, 2021, 11, 728.	1.9	3
125	Strain Coupling of Conversionâ€type Fe 3 O 4 Thin Films for Lithium Ion Batteries. Angewandte Chemie, 2017, 129, 7921-7924.	1.6	2
126	Using In-Situ Methods to Characterize Phase Changes in Charged Lithium Nickel Cobalt Aluminum Oxide Cathode Materials. Microscopy and Microanalysis, 2019, 25, 2030-2031.	0.2	2

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127	Synthesis of luminescent core/shell Î±-Zn₃P₂/ZnS quantum dots. Nanoscale, 2020, 12, 20952-20964.	2.8	2
128	Unraveling Thermodynamic and Kinetic Contributions to the Stability of Doped Nanocrystalline Alloys using Nanometallic Multilayers. Advanced Materials, 2022, 34, e2200354.	11.1	2
129	Panoramic Visualization of Lithiation of Copper Sulfide by In Situ STEM. Microscopy and Microanalysis, 2018, 24, 1498-1499.	0.2	1
130	Manipulating Interfacial Dissolutionâ€"Redeposition Dynamics to Resynthesize Electrode Surface Chemistry. ACS Energy Letters, 0, , 2588-2594.	8.8	1
131	In-situ Investigation of Multi-Step Lithiation of Tin Sulfide. Microscopy and Microanalysis, 2018, 24, 1864-1865.	0.2	0
132	Multimodal Analysis of Reaction Pathways of Cathode Materials for Lithium Ion Batteries. Microscopy and Microanalysis, 2020, 26, 906-908.	0.2	0
133	Innentitelbild: Electrochemical Conversion of CO₂ to Syngas with Controllable CO/H₂ Ratios over Co and Ni Singleâ€Atom Catalysts (Angew. Chem. 8/2020). Angewandte Chemie, 2020, 132, 2938-2938.	1.6	0
134	Reversible Flat to Rippling Phase Transition in Fe Containing Layered Battery Electrode Materials. Advanced Functional Materials, 2018, 28, .	7.8	0
135	Chalcogen-Based Anion Redox Cathode Chemistry for Li-Ion Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 1912-1912.	0.0	0
136	Layered-Rocksalt Intergrown Cathode for High-Capacity Zero-Strain Battery Operation. ECS Meeting Abstracts, 2021, MA2021-02, 193-193.	0.0	0