Yang Ren

List of Publications by Year
in descending order

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863
papers

41,713
citations

1893
102
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5988
160
g-index

880
all docs

880
docs citations

880
times ranked

36355
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured high-energy cathode materials for advanced lithium batteries. Nature Materials, 2012, 11, 942-947.	27.5	921
2	Origin of morphotropic phase boundaries in ferroelectrics. Nature, 2008, 451, 545-548.	27.8	759
3	Strong Lithium Polysulfide Chemisorption on Electroactive Sites of Nitrogenâ€Doped Carbon Composites For Highâ€Performance Lithiumâ€"Sulfur Battery Cathodes. Angewandte Chemie - International Edition, 2015, 54, 4325-4329.	13.8	686
4	Aqueous Li-ion battery enabled by halogen conversionâ€"intercalation chemistry in graphite. Nature, 2019, 569, 245-250.	27.8	590
5	Approaching the capacity limit of lithium cobalt oxide in lithium ion batteries via lanthanum and aluminium doping. Nature Energy, 2018, 3, 936-943.	39.5	531
6	Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures. Nature Photonics, 2019, 13, 760-764.	31.4	483
7	Preparation and application of magnetic Fe3O4 nanoparticles for wastewater purification. Separation and Purification Technology, 2009, 68, 312-319.	7.9	476
8	High-content ductile coherent nanoprecipitates achieve ultrastrong high-entropy alloys. Nature Communications, 2018, 9, 4063.	12.8	399
9	A high-energy and long-cycling lithiumâ€"sulfur pouch cell via a macroporous catalytic cathode with double-end binding sites. Nature Nanotechnology, 2021, 16, 166-173.	31.5	392
10	Magnetic Fieldâ€Induced Phase Transformation in NiMnCoIn Magnetic Shapeâ€Memory Alloysâ€"A New Actuation Mechanism with Large Work Output. Advanced Functional Materials, 2009, 19, 983-998.	14.9	384
11	Ascorbic-acid-assisted recovery of cobalt and lithium from spent Li-ion batteries. Journal of Power Sources, 2012, 218, 21-27.	7.8	378
12	Tuning the Kinetics of Zincâ€Ion Insertion/Extraction in V₂O₅ by In Situ Polyaniline Intercalation Enables Improved Aqueous Zincâ€Ion Storage Performance. Advanced Materials, 2020, 32, e2001113.	21.0	357
13	Burning lithium in CS2 for high-performing compact Li2Sâ€"graphene nanocapsules for Liâ€"SÂbatteries. Nature Energy, 2017, 2, .	39.5	349
14	Facet-dependent active sites of a single Cu2O particle photocatalyst for CO2 reduction to methanol. Nature Energy, 2019, 4, 957-968.	39.5	349
15	Building ultraconformal protective layers on both secondary and primary particles of layered lithium transition metal oxide cathodes. Nature Energy, 2019, 4, 484-494.	39.5	345
16	(De)Lithiation Mechanism of Li/SeS_{<i>x</i>} (<i>x</i> = 0â€"7) Batteries Determined by in Situ Synchrotron X-ray Diffraction and X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2013, 135, 8047-8056.	13.7	332
17	Coexistence of the spin-density wave and superconductivity in Ba _{1âˆ'x} K _x Fe ₂ As ₂. Europhysics Letters, 2009, 85, 17006.	2.0	315
18	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. Science, 2021, 373, 912-918.	12.6	304

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19	Optimizing the coupled effects of Hall-Petch and precipitation strengthening in a Al 0.3 CoCrFeNi high entropy alloy. Materials and Design, 2017, 121, 254-260.	7.0	287
20	Temperature-induced magnetization reversal in a YVO3 single crystal. Nature, 1998, 396, 441-444.	27.8	276
21	Morphological and Crystalline Evolution of Nanostructured MnO₂ and Its Application in Lithiumâ€"Air Batteries. ACS Nano, 2012, 6, 8067-8077.	14.6	266
22	Understanding Co roles towards developing Co-free Ni-rich cathodes for rechargeable batteries. Nature Energy, 2021, 6, 277-286.	39.5	255
23	Nanostructured Black Phosphorus/Ketjenblackâ€"Multiwalled Carbon Nanotubes Composite as High Performance Anode Material for Sodium-Ion Batteries. Nano Letters, 2016, 16, 3955-3965.	9.1	246
24	Colossal Elastocaloric Effect in Ferroelastic Ni-Mn-Ti Alloys. Physical Review Letters, 2019, 122, 255703.	7.8	245
25	A Transforming Metal Nanocomposite with Large Elastic Strain, Low Modulus, and High Strength. Science, 2013, 339, 1191-1194.	12.6	241
26	Examining Hysteresis in Composite <i>x</i>Li₂MnO₃Â·(1â€"<i>x</i>)LiMO₂ Cathode Structures. Journal of Physical Chemistry C, 2013, 117, 6525-6536.	3.1	234
27	The Effect of Oxygen Crossover on the Anode of a Liâ€"O₂ Battery using an Etherâ€Based Solvent: Insights from Experimental and Computational Studies. ChemSusChem, 2013, 6, 51-55.	6.8	231
28	Evidence for orbital ordering inLaCoO3. Physical Review B, 2003, 67, .	3.2	222
29	High-performance symmetric sodium-ion batteries using a new, bipolar O3-type material, Na_{0.8}Ni_{0.4}Ti_{0.6}O₂. Energy and Environmental Science, 2015, 8, 1237-1244.	30.8	215
30	Constraining CO coverage on copper promotes high-efficiency ethylene electroproduction. Nature Catalysis, 2019, 2, 1124-1131.	34.4	214
31	Origin of structural degradation in Li-rich layered oxide cathode. Nature, 2022, 606, 305-312.	27.8	206
32	Graphene-modified nanostructured vanadium pentoxide hybrids with extraordinary electrochemical performance for Li-ion batteries. Nature Communications, 2015, 6, 6127.	12.8	201
33	Effect of laser power on defect, texture, and microstructure of a laser powder bed fusion processed 316L stainless steel. Materials and Design, 2019, 164, 107534.	7.0	193
34	Polymorphism in a high-entropy alloy. Nature Communications, 2017, 8, 15687.	12.8	192
35	Layered P2/O3 Intergrowth Cathode: Toward High Power Naâ€Ion Batteries. Advanced Energy Materials, 2014, 4, 1400458.	19.5	191
36	From Threeâ€Dimensional Flowerâ€Like Î±â€Ni(OH)₂ Nanostructures to Hierarchical Porous NiO Nanoflowers: Microwaveâ€Assisted Fabrication and Supercapacitor Properties. Journal of the American Ceramic Society, 2010, 93, 3560-3564.	3.8	188

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37	Architecting a Stable High-Energy Aqueous Al-Ion Battery. Journal of the American Chemical Society, 2020, 142, 15295-15304.	13.7	188
38	Understanding Thermodynamic and Kinetic Contributions in Expanding the Stability Window of Aqueous Electrolytes. CheM, 2018, 4, 2872-2882.	11.7	187
39	Synthesis of Porous Carbon Supported Palladium Nanoparticle Catalysts by Atomic Layer Deposition: Application for Rechargeable Lithiumâ€"O₂ Battery. Nano Letters, 2013, 13, 4182-4189.	9.1	184
40	Correlation between manganese dissolution and dynamic phase stability in spinel-based lithium-ion battery. Nature Communications, 2019, 10, 4721.	12.8	182
41	Spontaneous spin-lattice coupling in the geometrically frustrated triangular lattice antiferromagnetCuFeO2. Physical Review B, 2006, 73, .	3.2	181
42	An in situ high-energy X-ray diffraction study of micromechanical behavior of multiple phases in advanced high-strength steels. Acta Materialia, 2009, 57, 3965-3977.	7.9	181
43	Structural rejuvenation in a bulk metallic glass induced by severe plastic deformation. Acta Materialia, 2010, 58, 429-438.	7.9	181
44	Tuning of Thermal Stability in Layered Li(Ni_{<i>x</i>}Mn_{<i>y</i>}Co_{<i>z</i>})O₂. Journal of the American Chemical Society, 2016, 138, 13326-13334.	13.7	178
45	In situ fabrication of porous-carbon-supported Î±-MnO2 nanorods at room temperature: application for rechargeable Liâ€"O2 batteries. Energy and Environmental Science, 2013, 6, 519.	30.8	175
46	Understanding Pt Nanoparticle Anchoring on Graphene Supports through Surface Functionalization. ACS Catalysis, 2016, 6, 2642-2653.	11.2	172
47	The effects of texture and extension twinning on the low-cycle fatigue behavior of a rolled magnesium alloy, AZ31B. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7057-7067.	5.6	170
48	Temperature-Sensitive Structure Evolution of Lithiumâ€"Manganese-Rich Layered Oxides for Lithium-Ion Batteries. Journal of the American Chemical Society, 2018, 140, 15279-15289.	13.7	163
49	New Insights into the Performance Degradation of Fe-Based Layered Oxides in Sodium-Ion Batteries: Instability of Fe³⁺/Fe⁴⁺ Redox in Î±-NaFeO₂. Chemistry of Materials, 2015, 27, 6755-6764.	6.7	162
50	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 2879-2883.	13.8	159
51	Liâ€"Se battery: absence of lithium polyselenides in carbonate based electrolyte. Chemical Communications, 2014, 50, 5576-5579.	4.1	155
52	Multi-Component Feâ€"Ni Hydroxide Nanocatalyst for Oxygen Evolution and Methanol Oxidation Reactions under Alkaline Conditions. ACS Catalysis, 2017, 7, 365-379.	11.2	154
53	BCC-Phased PdCu Alloy as a Highly Active Electrocatalyst for Hydrogen Oxidation in Alkaline Electrolytes. Journal of the American Chemical Society, 2018, 140, 16580-16588.	13.7	149
54	Magnetic properties of YVO3 single crystals. Physical Review B, 2000, 62, 6577-6586.	3.2	148

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55	In Operando XRD and TXM Study on the Metastable Structure Change of NaNi_{1/3}Fe_{1/3}Mn_{1/3}O₂ under Electrochemical Sodiumâ€Ion Intercalation. Advanced Energy Materials, 2016, 6, 1601306.	19.5	147
56	Self-Supported Copper Oxide Electrocatalyst for Water Oxidation at Low Overpotential and Confirmation of Its Robustness by Cu K-Edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 831-840.	3.1	146
57	Giant and reversible room-temperature magnetocaloric effect in Ti-doped Ni-Co-Mn-Sn magnetic shape memory alloys. Acta Materialia, 2017, 134, 236-248.	7.9	145
58	Zero Thermal Expansion and Ferromagnetism in Cubic Sc_{1â€"<i>x</i>}M_{<i>x</i>}F₃ (M = Ga, Fe) over a Wide Temperature Range. Journal of the American Chemical Society, 2014, 136, 13566-13569.	13.7	144
59	Insights into the structural effects of layered cathode materials for high voltage sodium-ion batteries. Energy and Environmental Science, 2017, 10, 1677-1693.	30.8	143
60	Tailoring size and structural distortion of Fe3O4 nanoparticles for the purification of contaminated water. Bioresource Technology, 2009, 100, 4139-4146.	9.6	142
61	Multi-scale study of thermal stability of lithiated graphite. Energy and Environmental Science, 2011, 4, 4023.	30.8	140
62	Enabling the high capacity of lithium-rich anti-fluorite lithium iron oxide by simultaneous anionic and cationic redox. Nature Energy, 2017, 2, 963-971.	39.5	140
63	A Fully Sodiated NaVOPO4 with Layered Structure for High-Voltage and Long-Lifespan Sodium-Ion Batteries. CheM, 2018, 4, 1167-1180.	11.7	140
64	Phase transformations of HfNbTaTiZr high-entropy alloy at intermediate temperatures. Scripta Materialia, 2019, 158, 50-56.	5.2	139
65	Alloyingâ€"realloying enabled high durability for Ptâ€"Pd-3d-transition metal nanoparticle fuel cell catalysts. Nature Communications, 2021, 12, 859.	12.8	137
66	Phase stability and transformation in a light-weight high-entropy alloy. Acta Materialia, 2018, 146, 280-293.	7.9	131
67	Cu assisted stabilization and nucleation of L12 precipitates in Al0.3CuFeCrNi2 fcc-based high entropy alloy. Acta Materialia, 2017, 129, 170-182.	7.9	130
68	Solid-Solution CrCoCuFeNi High-Entropy Alloy Thin Films Synthesized by Sputter Deposition. Materials Research Letters, 2015, 3, 203-209.	8.7	127
69	Composition Tunability and (111)-Dominant Facets of Ultrathin Platinumâ€"Gold Alloy Nanowires toward Enhanced Electrocatalysis. Journal of the American Chemical Society, 2016, 138, 12166-12175.	13.7	127
70	Synthetic Control of Kinetic Reaction Pathway and Cationic Ordering in Highâ€Ni Layered Oxide Cathodes. Advanced Materials, 2017, 29, 1606715.	21.0	127
71	An Ultrastable Anode for Longâ€Life Roomâ€Temperature Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2014, 53, 8963-8969.	13.8	126
72	Intrinsic structural distortion and superexchange interaction in the orthorhombic rare-earth perovskites<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mrow><mml:mtext>CrO</mml:mtext></mml:mrow><mml:mn>3 Physical Review B, 2010, 81, .	3.2	123

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73	Parasitic Reactions in Nanosized Silicon Anodes for Lithium-Ion Batteries. Nano Letters, 2017, 17, 1512-1519.	9.1	122
74	Probing the Thermal-Driven Structural and Chemical Degradation of Ni-Rich Layered Cathodes by Co/Mn Exchange. Journal of the American Chemical Society, 2020, 142, 19745-19753.	13.7	122
75	Changes in Catalytic and Adsorptive Properties of 2 nm Pt₃Mn Nanoparticles by Subsurface Atoms. Journal of the American Chemical Society, 2018, 140, 14870-14877.	13.7	121
76	Latticeâ€Distortionâ€Enhanced Yield Strength in a Refractory Highâ€Entropy Alloy. Advanced Materials, 2020, 32, e2004029.	21.0	121
77	Transition between Orbital Orderings inYVO3. Physical Review Letters, 2001, 87, 245501.	7.8	120
78	Insight into Sulfur Reactions in Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2014, 6, 21938-21945.	8.0	120
79	Simultaneously achieved large reversible elastocaloric and magnetocaloric effects and their coupling in a magnetic shape memory alloy. Acta Materialia, 2018, 151, 41-55.	7.9	120
80	Ambient-stable tetragonal phase in silver nanostructures. Nature Communications, 2012, 3, 971.	12.8	119
81	Pdâ€“In intermetallic alloy nanoparticles: highly selective ethane dehydrogenation catalysts. Catalysis Science and Technology, 2016, 6, 6965-6976.	4.1	119
82	Structure and reactivity of Ptâ€“In intermetallic alloy nanoparticles: Highly selective catalysts for ethane dehydrogenation. Catalysis Today, 2018, 299, 146-153.	4.4	119
83	A chiral switchable photovoltaic ferroelectric 1D perovskite. Science Advances, 2020, 6, eaay4213.	10.3	119
84	Thermal runaway mechanism of lithium-ion battery with LiNi0.8Mn0.1Co0.1O2 cathode materials. Nano Energy, 2021, 85, 105878.	16.0	116
85	New class of nonaqueous electrolytes for long-life and safe lithium-ion batteries. Nature Communications, 2013, 4, 1513.	12.8	115
86	Unexpected High-Temperature Stability of Î²-Zn₄Sb₃ Opens the Door to Enhanced Thermoelectric Performance. Journal of the American Chemical Society, 2014, 136, 1497-1504.	13.7	115
87	New Insights into the Negative Thermal Expansion: Direct Experimental Evidence for the â€œGuitar-Stringâ€•Effect in Cubic ScF₃. Journal of the American Chemical Society, 2016, 138, 8320-8323.	13.7	115
88	Surface Modification for Suppressing Interfacial Parasitic Reactions of a Nickel-Rich Lithium-Ion Cathode. Chemistry of Materials, 2019, 31, 2723-2730.	6.7	114
89	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. Chemistry of Materials, 2019, 31, 3705-3711.	6.7	112
90	High-throughput design of high-performance lightweight high-entropy alloys. Nature Communications, 2021, 12, 4329.	12.8	112

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91	Plasmonic/Magnetic Bifunctional Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 3158-3163.	13.8	111
92	Mechanisms related to different generations of Î³â€² precipitation during continuous cooling of a nickel base superalloy. Acta Materialia, 2013, 61, 280-293.	7.9	111
93	Synthesis, Characterization, and Structural Modeling of Highâ€Capacity, Dual Functioning MnO₂ Electrode/Electrocatalysts for Liâ€O₂ Cells. Advanced Energy Materials, 2013, 3, 75-84.	19.5	111
94	Identification of a Pt₃Co Surface Intermetallic Alloy in Ptâ€“Co Propane Dehydrogenation Catalysts. ACS Catalysis, 2019, 9, 5231-5244.	11.2	111
95	Lithium titanate hydrates with superfast and stable cycling in lithium ion batteries. Nature Communications, 2017, 8, 627.	12.8	110
96	Ultralowâ€Strain Znâ€Substituted Layered Oxide Cathode with Suppressed P2â€“O2 Transition for Stable Sodium Ion Storage. Advanced Functional Materials, 2020, 30, 1910327.	14.9	110
97	Structure of gold nanoparticles suspended in water studied by x-ray diffraction and computer simulations. Physical Review B, 2005, 72, .	3.2	109
98	Hidden amorphous phase and reentrant supercooled liquid in Pd-Ni-P metallic glasses. Nature Communications, 2017, 8, 14679.	12.8	109
99	Correlation between long range and local structural changes in Ni-rich layered materials during charge and discharge process. Journal of Power Sources, 2019, 412, 336-343.	7.8	109
100	Is alpha-V2O5 a cathode material for Mg insertion batteries?. Journal of Power Sources, 2016, 323, 44-50.	7.8	108
101	Neutron diffraction, x-ray diffraction, and specific heat studies of orbital ordering inYVO3. Physical Review B, 2002, 65, .	3.2	107
102	Proton enhanced dynamic battery chemistry for aprotic lithiumâ€“oxygen batteries. Nature Communications, 2017, 8, 14308.	12.8	104
103	Temperature-dependent micromechanical behavior of medium-Mn transformation-induced-plasticity steel studied by in situ synchrotron X-ray diffraction. Acta Materialia, 2017, 141, 294-303.	7.9	104
104	Atomic-Scale Mechanisms of the Glass-Forming Ability in Metallic Glasses. Physical Review Letters, 2012, 109, 105502.	7.8	103
105	Average and local atomic-scale structure in BaZr_{<i>x</i>}Ti_{1â^’<i>x</i>}O₃(<i>x</i>= 0.10, 0.20, 0.40) ceramics by high-energy x-ray diffraction and Raman spectroscopy. Journal of Physics Condensed Matter, 2014, 26, 065901.	1.8	103
106	Unusual Transformation from Strong Negative to Positive Thermal Expansion in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>PbTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mtext mathvariant="normal">â^’</mml:mtext><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Pero Physical Review Letters, 2013, 110, 115901.	7.8	102
107	Gallium Sulfideâ€“Singleâ€Walled Carbon Nanotube Composites: Highâ€Performance Anodes for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2014, 24, 5435-5442.	14.9	102
108	Facile route fabrication of nickel based mesoporous carbons with high catalytic performance towards 4-nitrophenol reduction. Green Chemistry, 2014, 16, 2273.	9.0	102

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109	Unique Piezoelectric Properties of the Monoclinic Phase in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Pb</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>Zr</mml:mi><mml:mo>,</mml:mo><mml:mi>Ti</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>Ceramics:	7.8	102
110	Single-walled carbon nanotube-reinforced copper composite coatings prepared by electrodeposition under ultrasonic field. Materials Letters, 2008, 62, 47-50.	2.6	100
111	Size-Dependent Amorphization of Nanoscale<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">Y</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>at High Pressure. Physical Review Letters, 2010, 105, 095701.	7.8	100
112	Stress and Strain Partitioning of Ferrite and Martensite during Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1383-1387.	2.2	98
113	Unconventional magnetic transitions in the mineral clinoatacamiteCu2Cl(OH)3. Physical Review B, 2005, 71, .	3.2	97
114	Insight into Caâ€Substitution Effects on O3â€Type NaNi_{1/3}Fe_{1/3}Mn_{1/3}O₂ Cathode Materials for Sodiumâ€Ion Batteries Application. Small, 2018, 14, e1704523.	10.0	97
115	Atomic-Scale Structure of Nanocrystalline BaxSr1-xTiO3(x= 1, 0.5, 0) by X-ray Diffraction and the Atomic Pair Distribution Function Technique. Chemistry of Materials, 2006, 18, 814-821.	6.7	96
116	Elucidation of Peptide-Directed Palladium Surface Structure for Biologically Tunable Nanocatalysts. ACS Nano, 2015, 9, 5082-5092.	14.6	96
117	Tunable thermal expansion in framework materials through redox intercalation. Nature Communications, 2017, 8, 14441.	12.8	95
118	Critical Role of Monoclinic Polarization Rotation in High-Performance Perovskite Piezoelectric Materials. Physical Review Letters, 2017, 119, 017601.	7.8	95
119	Unprecedented non-hysteretic superelasticity of [001]-oriented NiCoFeGa single crystals. Nature Materials, 2020, 19, 712-718.	27.5	95
120	Unravelling the origin of irreversible capacity loss in NaNiO2 for high voltage sodium ion batteries. Nano Energy, 2017, 34, 215-223.	16.0	94
121	Reversible deformation-induced martensitic transformation in Al0.6CoCrFeNi high-entropy alloy investigated by in situ synchrotron-based high-energy X-ray diffraction. Acta Materialia, 2017, 128, 12-21.	7.9	93
122	A medium-range structure motif linking amorphous and crystalline states. Nature Materials, 2021, 20, 1347-1352.	27.5	92
123	In situ high-energy X-ray diffraction to study overcharge abuse of 18650-size lithium-ion battery. Journal of Power Sources, 2013, 230, 32-37.	7.8	91
124	Role of Supportâ€"Nanoalloy Interactions in the Atomic-Scale Structural and Chemical Ordering for Tuning Catalytic Sites. Journal of the American Chemical Society, 2012, 134, 15048-15060.	13.7	89
125	PEDOT-PSS coated ZnO/C hierarchical porous nanorods as ultralong-life anode material for lithium ion batteries. Nano Energy, 2015, 18, 253-264.	16.0	89
126	Atomic Linkage Flexibility Tuned Isotropic Negative, Zero, and Positive Thermal Expansion in MZrF₆ (M = Ca, Mn, Fe, Co, Ni, and Zn). Journal of the American Chemical Society, 2016, 138, 14530-14533.	13.7	89

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127	Towards a greater understanding of serrated flows in an Al-containing high-entropy-based alloy. International Journal of Plasticity, 2019, 115, 71-92.	8.8	89
128	Superior Highâ€Temperature Strength in a Supersaturated Refractory Highâ€Entropy Alloy. Advanced Materials, 2021, 33, e2102401.	21.0	89
129	Preferred orientation and elastic anisotropy in shales. Geophysics, 2007, 72, D33-D40.	2.6	87
130	Synthesis and characterization of bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mrow><mml:mn>1</mm mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mrow>. Physical Review Materials, 2020, 4, .	2.4	87
131	Magnetic Interactions in the Geometrically Frustrated Triangular Lattice Antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CuFeO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2007, 99, 157201.	7.8	85
132	Large reversible magnetocaloric effect in a Ni-Co-Mn-In magnetic shape memory alloy. Applied Physics Letters, 2016, 108, .	3.3	84
133	A new strategy to mitigate the initial capacity loss of lithium ion batteries. Journal of Power Sources, 2016, 324, 150-157.	7.8	84
134	Sequence-Dependent Structure/Function Relationships of Catalytic Peptide-Enabled Gold Nanoparticles Generated under Ambient Synthetic Conditions. Journal of the American Chemical Society, 2016, 138, 540-548.	13.7	84
135	A high-voltage rechargeable magnesium-sodium hybrid battery. Nano Energy, 2017, 34, 188-194.	16.0	84
136	Role of Reversible Phase Transformation for Strong Piezoelectric Performance at the Morphotropic Phase Boundary. Physical Review Letters, 2018, 120, 055501.	7.8	84
137	Insight into the Capacity Fading Mechanism of Amorphous Se₂S₅ Confined in Micro/Mesoporous Carbon Matrix in Ether-Based Electrolytes. Nano Letters, 2016, 16, 2663-2673.	9.1	83
138	Polyaniline-encapsulated silicon on three-dimensional carbon nanotubes foam with enhanced electrochemical performance for lithium-ion batteries. Journal of Power Sources, 2018, 381, 156-163.	7.8	80
139	Rational design of mechanically robust Ni-rich cathode materials via concentration gradient strategy. Nature Communications, 2021, 12, 6024.	12.8	80
140	Uniting tensile ductility with ultrahigh strength via composition undulation. Nature, 2022, 604, 273-279.	27.8	80
141	Individual phase constitutive properties of a TRIP-assisted QP980 steel from a combined synchrotron X-ray diffraction and crystal plasticity approach. Acta Materialia, 2017, 132, 230-244.	7.9	79
142	Thermally-induced reversible structural isomerization in colloidal semiconductor CdS magic-size clusters. Nature Communications, 2018, 9, 2499.	12.8	79
143	Structural Distortion Induced by Manganese Activation in a Lithium-Rich Layered Cathode. Journal of the American Chemical Society, 2020, 142, 14966-14973.	13.7	79
144	An experimental study of the (Tiâ€"6Alâ€"4V)â€"xH phase diagram using in situ synchrotron XRD and TGA/DSC techniques. Acta Materialia, 2015, 84, 29-41.	7.9	78

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145	Compatibility of lithium salts with solvent of the non-aqueous electrolyte in Liâ€"O2 batteries. Physical Chemistry Chemical Physics, 2013, 15, 5572.	2.8	76
146	A highly distorted ultraelastic chemically complex Elinvar alloy. Nature, 2022, 602, 251-257.	27.8	75
147	Early Stage Formation of Iron Oxyhydroxides during Neutralization of Simulated Acid Mine Drainage Solutions. Environmental Science & Technology, 2012, 46, 8140-8147.	10.0	74
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