

Yang Ren

List of Publications by Year in descending order

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papers

41,713
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1893

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times ranked

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#	ARTICLE	IF	CITATIONS
1	In Situ Scattering Studies of Crystallization Kinetics in a Phase-Separated Zr-Cu-Fe-Al Bulk Metallic Glass. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 103-114.	2.9	4
2	Revealing intrinsic and extrinsic piezoelectric contributions in phase coexistence system of PbTiO ₃ -BiScO ₃ . <i>Science China Materials</i> , 2022, 65, 170-178.	6.3	5
3	Large piezoelectricity and potentially activated polarization reorientation around relaxor MPB in complex perovskite. <i>Journal of the European Ceramic Society</i> , 2022, 42, 112-118.	5.7	7
4	Tuning thermal expansion from strong negative to zero to positive in Cu ₂ -Zn P ₂ O ₇ solid solutions. <i>Scripta Materialia</i> , 2022, 207, 114289.	5.2	6
5	Phase Evolution and Thermal Expansion Behavior of a γ -Precipitated Ni-Based Superalloy by Synchrotron X-Ray Diffraction. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 93-102.	2.9	4
6	Temperature-dependent constitutive modeling of a magnesium alloy ZEK100 sheet using crystal plasticity models combined with in situ high-energy X-ray diffraction experiment. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 2801-2816.	11.9	7
7	Magnetostructural transition, magnetocaloric effect and critical exponent analysis in Nd(Co _{0.8} Fe _{0.2}) ₂ alloy. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162562.	5.5	7
8	Large-strain Lüders-type deformation of B19' martensite in Ni ₄₇ Ti ₄₉ Nb ₂ Fe ₂ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 829, 142136.	5.6	2
9	Local chemical fluctuation mediated ultra-sluggish martensitic transformation in high-entropy intermetallics. <i>Materials Horizons</i> , 2022, 9, 804-814.	12.2	15
10	Folded network and structural transition in molten tin. <i>Nature Communications</i> , 2022, 13, 126.	12.8	6
11	Extreme fast charge aging: Correlation between electrode scale and heterogeneous degradation in Ni-rich layered cathodes. <i>Journal of Power Sources</i> , 2022, 521, 230961.	7.8	15
12	Layered porous silicon encapsulated in carbon nanotube cage as ultra-stable anode for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 431, 133982.	12.7	38
13	Native lattice strain induced structural earthquake in sodium layered oxide cathodes. <i>Nature Communications</i> , 2022, 13, 436.	12.8	29
14	Ultrathin Si Nanosheets Dispersed in Graphene Matrix Enable Stable Interface and High Rate Capability of Anode for Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	67
15	Selective laser melted high Ni content TiNi alloy with superior superelasticity and hardwearing. <i>Journal of Materials Science and Technology</i> , 2022, 116, 246-257.	10.7	8
16	Approaching theoretical specific capacity of iron-rich lithium iron silicate using graphene-incorporation and fluorine-doping. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4006-4014.	10.3	10
17	Interactions between martensitic NiTi shape memory alloy and Nb nanowires in composite wire during tensile deformation. <i>Composites Part B: Engineering</i> , 2022, 234, 109690.	12.0	6
18	A highly distorted ultraelastic chemically complex Elinvar alloy. <i>Nature</i> , 2022, 602, 251-257.	27.8	75

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19	Operando Synchrotron Studies of Inhomogeneity during Anode-Free Plating of Li Metal in Pouch Cell Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020571.	2.9	12
20	Critical cation-anion radius ratio and two-dimensional antiferromagnetism in van der Waals TMPS3 (TM=Mn, Fe, Ni). <i>Journal of Physics Condensed Matter</i> , 2022, . .	1.8	0
21	High-throughput investigation of structural evolution upon solid-state in Cuâ€“Crâ€“Co combinatorial multilayer thin-film. <i>Materials and Design</i> , 2022, 215, 110455.	7.0	5
22	Large thermal hysteresis in a single-phase NiTiNb shape memory alloy. <i>Scripta Materialia</i> , 2022, 212, 114574.	5.2	9
23	Investigating the Origin of the Enhanced Sodium Storage Capacity of Transition Metal Sulfide Anodes in Etherâ€“Based Electrolytes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	24
24	Ferroelastic oligocrystalline microwire with unprecedented high-temperature superelastic and shape memory effects. <i>NPG Asia Materials</i> , 2022, 14, .	7.9	2
25	Unblocking Oxygen Charge Compensation for Stabilized Highâ€“Voltage Structure in P2â€“type Sodiumâ€“Ion Cathode. <i>Advanced Science</i> , 2022, 9, e2200498.	11.2	32
26	In-situ synchrotron high energy X-ray diffraction study of spontaneous reorientation of R phase upon cooling in nanocrystalline Ti50Ni45.5Fe4.5 alloy. <i>Rare Metals</i> , 2022, 41, 1948-1954.	7.1	4
27	$K_{3}SbS_{4}$ as a Potassium Superionic Conductor with Low Activation Energy for Kâ€“S Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	19
28	Visualizing Light-Induced Microstrain and Phase Transition in Lead-Free Perovskites Using Time-Resolved X-Ray Diffraction. <i>Journal of the American Chemical Society</i> , 2022, 144, 5335-5341.	13.7	15
29	Construction of polysulfides defense system for greatly improving the long cycle life of metal sulfide anodes for sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2022, 71, 210-217.	12.9	13
30	$K_{3}SbS_{4}$ as a Potassium Superionic Conductor with Low Activation Energy for Kâ€“S Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
31	Effect of laser scanning speed on the microstructure, phase transformation and mechanical property of NiTi alloys fabricated by LPBF. <i>Materials and Design</i> , 2022, 215, 110460.	7.0	30
32	Thermal dynamics of P2-Na0.67Ni0.33Mn0.67O2 cathode materials for sodium ion batteries studied by in situ analysis. <i>Journal of Materials Research</i> , 2022, 37, 1156-1163.	2.6	1
33	Effect of laser hatch spacing on the pore defects, phase transformation and properties of selective laser melting fabricated NiTi shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142965.	5.6	28
34	Unveiling the origins of work-hardening enhancement and mechanical instability in laser shock peened titanium. <i>Acta Materialia</i> , 2022, 229, 117810.	7.9	18
35	In-situ synchrotron-based high energy X-ray diffraction study of the deformation mechanism of δ -hydrides in a commercially pure titanium. <i>Scripta Materialia</i> , 2022, 213, 114608.	5.2	5
36	High-performance LiNi0.8Mn0.1Co0.1O2 cathode by nanoscale lithium sulfide coating via atomic layer deposition. <i>Journal of Energy Chemistry</i> , 2022, 69, 531-540.	12.9	11

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37	Uniting tensile ductility with ultrahigh strength via composition undulation. <i>Nature</i> , 2022, 604, 273-279.	27.8	80
38	Acid-Induced Clay Electrolyte for Wide-Temperature-Range and Long-Cycle Proton Batteries. <i>Advanced Materials</i> , 2022, 34, e2202063.	21.0	16
39	In situ study on medium-range order evolution during the polyamorphous phase transition in a Pd-Ni-P nanostructured glass. <i>Journal of Materials Science and Technology</i> , 2022, 125, 145-156.	10.7	9
40	Modulating precursor nanosheets for stabilized Ni-rich cathode material for Li-ion batteries. <i>Rare Metals</i> , 2022, 41, 2552-2559.	7.1	19
41	Structure and thermodynamics of calcium rare earth silicate oxyapatites, $\text{Ca}_2\text{RE}_8(\text{SiO}_4)_6\text{O}_2$ ($\text{RE} = \text{Pr, Tb}$). <i>J. ETQq1</i> 0.78431	0.8	1
42	Crystal Chemistry and Thermodynamics of HREE (Er, Yb) Mixing in a Xenotime Solid Solution. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1375-1389.	2.7	13
43	Synchrotron X-ray-induced Synthesis of Copper Hydroxide Nitrate Nanoplates on Cu Thin Films in an Ambient Atmosphere. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23342-23347.	8.0	1
44	Transformation of Thermal Expansion from Large Volume Contraction to Nonlinear Strong Negative Thermal Expansion in PbTiO_3 - $\text{Bi}(\text{Co}_{1-x}\text{Fe}_x)\text{O}_3$ Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23610-23616.	8.0	5
45	Plastic anisotropy and twin distributions near the fatigue crack tip of textured Mg alloys from in situ synchrotron X-ray diffraction measurements and multiscale mechanics modeling. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 165, 104936.	4.8	8
46	Origin and regulation of oxygen redox instability in high-voltage battery cathodes. <i>Nature Energy</i> , 2022, 7, 808-817.	39.5	55
47	Atomic structure and Mott nature of the insulating charge density wave phase of 1T-TaS_2 . <i>Journal of Physics Condensed Matter</i> , 2022, 34, 345401.	1.8	7
48	Origin of structural degradation in Li-rich layered oxide cathode. <i>Nature</i> , 2022, 606, 305-312.	27.8	206
49	Spreading monoclinic boundary network between hexagonal primary grains for high performance Ni-rich cathode materials. <i>Nano Energy</i> , 2022, 100, 107502.	16.0	7
50	Increasing the yield strength while preserving strain hardenability and ductility in a beta titanium alloy exhibiting transformation induced plasticity (TRIP). <i>Scripta Materialia</i> , 2022, 219, 114890.	5.2	11
51	Repurposing the $\hat{\Gamma}$ (Al_2Cu) phase to simultaneously increase the strength and ductility of an additively manufactured Al-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 850, 143511.	5.6	7
52	The nature of the metamagnetic transition in Heusler alloy $\text{Ni}_{44.9}\text{Mn}_{43}\text{In}_{12.1}$ studied for magnetic refrigeration application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 283, 115796.	3.5	2
53	Revealing the mode and strain of reversible twinning in B_{19}C_2 martensite by in situ synchrotron X-ray diffraction. <i>Acta Materialia</i> , 2022, 236, 118131.	7.9	10
54	Constructing O2/O3 homogeneous hybrid stabilizes Li-rich layered cathodes. <i>Energy Storage Materials</i> , 2022, 51, 756-763.	18.0	16

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55	Large elastic strains and ductile necking of W nanowires embedded in TiNi matrix. <i>Journal of Materials Science and Technology</i> , 2021, 60, 56-60.	10.7	4
56	An advanced low-cost cathode composed of graphene-coated Na _{2.4} Fe _{1.8} (SO ₄) ₃ nanograins in a 3D graphene network for ultra-stable sodium storage. <i>Journal of Energy Chemistry</i> , 2021, 54, 564-570.	12.9	15
57	A Ni-free $\hat{1}^2$ -Ti alloy with large and stable room temperature super-elasticity. <i>Materials Today Communications</i> , 2021, 26, 101838.	1.9	2
58	A high-energy and long-cycling lithium-sulfur pouch cell via a macroporous catalytic cathode with double-end binding sites. <i>Nature Nanotechnology</i> , 2021, 16, 166-173.	31.5	392
59	Full Concentration Gradient-Tailored Li-Rich Layered Oxides for High-Energy Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2001358.	21.0	65
60	In-situ synchrotron diffraction study of the localized phase transformation and deformation behavior in NiTi SMA. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 805, 140560.	5.6	17
61	Role of tetragonal distortion on domain switching and lattice strain of piezoelectrics by in-situ synchrotron diffraction. <i>Scripta Materialia</i> , 2021, 194, 113627.	5.2	11
62	Highly active and stable Co nanoparticles embedded in nitrogen-doped mesoporous carbon nanofibers for aqueous-phase levulinic acid hydrogenation. <i>Green Energy and Environment</i> , 2021, 6, 567-577.	8.7	12
63	High susceptibility to adiabatic shear banding and high dynamic strength in tungsten heavy alloys with a high-entropy alloy matrix. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157796.	5.5	9
64	Lean duplex TRIP steel: Role of ferrite in the texture development, plastic anisotropy, martensitic transformation kinetics, and stress partitioning. <i>Materialia</i> , 2021, 15, 100952.	2.7	21
65	In-situ high energy X-ray diffraction study of microscopic deformation behavior of martensite variant reorientation in NiTi wire. <i>Applied Materials Today</i> , 2021, 22, 100904.	4.3	8
66	Solid-solid phase transition via the liquid in a Pd ₄₃ Cu ₂₇ Ni ₁₀ P ₂₀ bulk metallic glass under conventional conditions. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157802.	5.5	5
67	Structural origin of size effect on piezoelectric performance of Pb(Zr,Ti)O ₃ . <i>Ceramics International</i> , 2021, 47, 5256-5264.	4.8	13
68	Enhanced negative thermal expansion of boron-doped Fe ₄₃ Mn ₂₈ Ga _{28.97} B _{0.03} alloy. <i>Journal of Alloys and Compounds</i> , 2021, 857, 157572.	5.5	6
69	Enhanced superelasticity of nanocrystalline NiTi/NiTiNbFe laminar composite. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157309.	5.5	9
70	Dual functionality of over-lithiated NMC for high energy silicon-based lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12818-12829.	10.3	16
71	Boosted piezoelectricity with excellent thermal stability in tetragonal NaNbO ₃ -based ceramics. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2367-2374.	10.3	12
72	External-Field-Induced Phase Transformation and Associated Properties in a Ni ₅₀ Mn ₃₄ Fe ₃ In ₁₃ Metamagnetic Shape Memory Wire. <i>Metals</i> , 2021, 11, 309.	2.3	4

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73	Understanding Co roles towards developing Co-free Ni-rich cathodes for rechargeable batteries. <i>Nature Energy</i> , 2021, 6, 277-286.	39.5	255
74	Alloying-enabled realloying enabled high durability for Pt-Pd-3d-transition metal nanoparticle fuel cell catalysts. <i>Nature Communications</i> , 2021, 12, 859.	12.8	137
75	A combinatory ferroelectric compound bridging simple ABO ₃ and A-site-ordered quadruple perovskite. <i>Nature Communications</i> , 2021, 12, 747.	12.8	62
76	Temperature-Induced Structural Changes in the Liquid GaInSn Eutectic Alloy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7413-7420.	3.1	8
77	The In Situ Observation of Phase Transformations During Intercritical Annealing of a Medium Manganese Advanced High Strength Steel by High Energy X-Ray Diffraction. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	4
78	Unravel unusual hardening behavior of a Pd-Ni-P metallic glass in its supercooled liquid region. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	4
79	Disorder trapping and formation of antiphase nanodomains in Ni ₃ Sn: In situ observation and high resolution characterization. <i>Scripta Materialia</i> , 2021, 193, 55-58.	5.2	7
80	Local structure memory effects in the polar and nonpolar phases of MoTe ₂ . <i>Physical Review B</i> , 2021, 103, .	3.2	3
81	Temperature-dependent deformation behavior of a CuZr-based bulk metallic glass composite. <i>Journal of Alloys and Compounds</i> , 2021, 858, 158368.	5.5	10
82	Engineering Molecular Polymerization for Template-Free SiO _x /C Hollow Spheres as Ultrastable Anodes in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101145.	14.9	74
83	In situ monitoring of dislocation, twinning, and detwinning modes in an extruded magnesium alloy under cyclic loading conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 806, 140860.	5.6	11
84	Modulating the Surface Ligand Orientation for Stabilized Anionic Redox in Li-Rich Oxide Cathodes. <i>Advanced Energy Materials</i> , 2021, 11, 2003479.	19.5	45
85	Anomalous fast atomic dynamics in bulk metallic glasses. <i>Materials Today Physics</i> , 2021, 17, 100351.	6.0	4
86	Competing Interactions between Mesoscale Length-Scales, Order-Disorder, and Martensitic Transformation in Ferromagnetic Shape Memory Alloys. <i>Acta Materialia</i> , 2021, 206, 116616.	7.9	16
87	Mild water intake orients crystal formation imparting high tolerance on unencapsulated halide perovskite solar cells. <i>Cell Reports Physical Science</i> , 2021, 2, 100395.	5.6	8
88	Dynamic recrystallization of a wrought magnesium alloy: Grain size and texture maps and their application for mechanical behavior predictions. <i>Materials and Design</i> , 2021, 202, 109562.	7.0	41
89	Nanoscale Phase Separation and Large Refrigerant Capacity in Magnetocaloric Material LaFe _{11.5} Si _{1.5} . <i>Chemistry of Materials</i> , 2021, 33, 2837-2846.	6.7	6
90	Insight into the capacity decay mechanism of cycled LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathodes via in situ x-ray diffraction. <i>Nanotechnology</i> , 2021, 32, 295701.	2.6	17

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91	Simultaneously enhancing piezoelectric performance and thermal depolarization in lead-free (Bi,Nb)TiO ₃ -BaTiO ₃ via introducing oxygen-defect perovskites. <i>Acta Materialia</i> , 2021, 208, 116711.	7.9	32
92	A medium-range structure motif linking amorphous and crystalline states. <i>Nature Materials</i> , 2021, 20, 1347-1352.	27.5	92
93	Lightweight Zr _{1.2} V _{0.8} NbTi Al high-entropy alloys with high tensile strength and ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141234.	5.6	37
94	<i>In situ</i> neutron scattering studies of a liquid-liquid phase transition in the supercooled liquid of a Zr-Cu-Al-Ag glass-forming alloy. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	10
95	In-Situ γ - β Lattice Parameter Evolution and Tertiary Burst Phenomena During Controlled Cooling of Commercial PM Nickel-Base Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 2973.	2.2	4
96	Enabling High-Performance NASICON-Based Solid-State Lithium Metal Batteries Towards Practical Conditions. <i>Advanced Functional Materials</i> , 2021, 31, 2102765.	14.9	32
97	In situ scattering study of multiscale structural evolution during liquid-liquid phase transition in Mg-based metallic glasses. <i>Rare Metals</i> , 2021, 40, 3107-3116.	7.1	9
98	Transferring elastic strain in Mo/Nb/TiNi multilayer nanocomposites by the principle of lattice strain matching. <i>Composites Part B: Engineering</i> , 2021, 215, 108784.	12.0	11
99	Thermal Stability and Lattice Strain Evolution of High-Nb-Containing TiAl Alloy under Low-Cycle Fatigue Loading. <i>Advanced Engineering Materials</i> , 2021, 23, 2001337.	3.5	6
100	Micromechanical Behaviors of Fe ₂₀ Co ₃₀ Cr ₂₅ Ni ₂₅ High Entropy Alloys with Partially and Completely Recrystallized Microstructures Investigated by In-Situ High-Energy X-ray Diffraction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 3674-3683.	2.2	4
101	Engineering of Exciton Spatial Distribution in CdS Nanoplatelets. <i>Nano Letters</i> , 2021, 21, 5201-5208.	9.1	18
102	Resolving atomic-scale phase transformation and oxygen loss mechanism in ultrahigh-nickel layered cathodes for cobalt-free lithium-ion batteries. <i>Matter</i> , 2021, 4, 2013-2026.	10.0	69
103	Role of Lithium Doping in P ₂ -Na _{0.67} Ni _{0.33} Mn _{0.67} O ₂ for Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2021, 33, 4445-4455.	6.7	56
104	New Insights into the High-Performance Black Phosphorus Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2101259.	21.0	41
105	In situ observation of thermal-driven degradation and safety concerns of lithiated graphite anode. <i>Nature Communications</i> , 2021, 12, 4235.	12.8	74
106	High-throughput design of high-performance lightweight high-entropy alloys. <i>Nature Communications</i> , 2021, 12, 4329.	12.8	112
107	A Low-Cost Ni-Mn-Ti-B High-Temperature Shape Memory Alloy with Extraordinary Functional Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31870-31879.	8.0	15
108	Oxygen addition for improving the strength and plasticity of TiZr-based amorphous alloy composites. <i>Journal of Materials Science and Technology</i> , 2021, 79, 212-221.	10.7	8

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109	On temperature and strain-rate dependence of flow serration in HfNbTaTiZr high-entropy alloy. <i>Scripta Materialia</i> , 2021, 200, 113919.	5.2	22
110	Nanocrystalline strain glass TiNiPt and its superelastic behavior. <i>Physical Review B</i> , 2021, 104, .	3.2	13
111	Thermal runaway mechanism of lithium-ion battery with LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ cathode materials. <i>Nano Energy</i> , 2021, 85, 105878.	16.0	116
112	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. <i>Science</i> , 2021, 373, 912-918.	12.6	304
113	3D-Printing Damage-Tolerant Architected Metallic Materials with Shape Recoverability via Special Deformation Design of Constituent Material. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39915-39924.	8.0	17
114	Synchrotron x-ray diffraction and crystal plasticity modeling study of martensitic transformation, texture development, and stress partitioning in deep-drawn TRIP steels. <i>Materialia</i> , 2021, 18, 101162.	2.7	11
115	Revealing causes of macroscale heterogeneity in lithium ion pouch cells via synchrotron X-ray diffraction. <i>Journal of Power Sources</i> , 2021, 507, 230253.	7.8	20
116	Electrolytes Polymerization-Induced Cathode-Electrolyte-Interphase for High Voltage Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101956.	19.5	39
117	Precipitation and micromechanical behavior of the coherent ordered nanoprecipitation strengthened Al-Cr-Fe-Ni-V high entropy alloy. <i>Acta Materialia</i> , 2021, 216, 117121.	7.9	51
118	Comprehensive Insights into Nucleation, Autocatalytic Growth, and Stripping Efficiency for Lithium Plating in Full Cells. <i>ACS Energy Letters</i> , 2021, 6, 3725-3733.	17.4	13
119	Reaction inhomogeneity coupling with metal rearrangement triggers electrochemical degradation in lithium-rich layered cathode. <i>Nature Communications</i> , 2021, 12, 5370.	12.8	44
120	Quantitative evaluation of thixotropy-governed microfabric evolution in soft clays. <i>Applied Clay Science</i> , 2021, 210, 106157.	5.2	12
121	Step-wise R phase transformation rendering high-stability two-way shape memory effect of a NiTiFe-Nb nanowire composite. <i>Acta Materialia</i> , 2021, 219, 117258.	7.9	10
122	Structural origin for the high piezoelectric performance of (Na _{0.5} Bi _{0.5})TiO ₃ -BaTiO ₃ -BiAlO ₃ lead-free ceramics. <i>Acta Materialia</i> , 2021, 218, 117202.	7.9	13
123	Solidification texture, variant selection, and phase fraction in a spot-melt electron-beam powder bed fusion processed Ti-6Al-4V. <i>Additive Manufacturing</i> , 2021, 46, 102136.	3.0	4
124	In-built ultraconformal interphases enable high-safety practical lithium batteries. <i>Energy Storage Materials</i> , 2021, 43, 248-257.	18.0	49
125	<i>In situ</i> determination of the interplay of the structure and domain under a subcoercive field in BiScO ₃ -PbTiO ₃ . <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4415-4422.	6.0	1
126	Stress- and Interface-Compatible Red Phosphorus Anode for High-Energy and Durable Sodium-Ion Batteries. <i>ACS Energy Letters</i> , 2021, 6, 547-556.	17.4	33

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127	Atomic-scale constituting stable interface for improved $\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ cathodes of lithium-ion batteries. <i>Nanotechnology</i> , 2021, 32, 115401.	2.6	12
128	Shape memory effect in metallic glasses. <i>Matter</i> , 2021, 4, 3327-3338.	10.0	3
129	Spatial and Temporal Analysis of Sodium-Ion Batteries. <i>ACS Energy Letters</i> , 2021, 6, 4023-4054.	17.4	62
130	Rational design of mechanically robust Ni-rich cathode materials via concentration gradient strategy. <i>Nature Communications</i> , 2021, 12, 6024.	12.8	80
131	Superior High-Temperature Strength in a Supersaturated Refractory High-Entropy Alloy. <i>Advanced Materials</i> , 2021, 33, e2102401.	21.0	89
132	High-Voltage and High-Safety Practical Lithium Batteries with Ethylene Carbonate-Free Electrolyte. <i>Advanced Energy Materials</i> , 2021, 11, 2102299.	19.5	59
133	Small-scale confined R-phase transformation in $\text{Ni}_{47}\text{Ti}_{49}\text{Fe}_2\text{Nb}_2$ alloy. <i>Materialia</i> , 2021, 20, 101262.	2.7	5
134	Spontaneous Strain Buffer Enables Superior Cycling Stability in Single-Crystal Nickel-Rich NCM Cathode. <i>Nano Letters</i> , 2021, 21, 9997-10005.	9.1	58
135	Reentrant glass transition leading to ultrastable metallic glass. <i>Materials Today</i> , 2020, 34, 66-77.	14.2	45
136	Preparation, Structure, and enhanced thermoelectric properties of Sm-doped BiCuSeO oxyselenide. <i>Materials and Design</i> , 2020, 185, 108263.	7.0	29
137	Confined seeds derived sodium titanate/graphene composite with synergistic storage ability toward high performance sodium ion capacitors. <i>Chemical Engineering Journal</i> , 2020, 379, 122418.	12.7	23
138	Magnetic-field-induced strain-glass-to-martensite transition in a Fe-Mn-Ga alloy. <i>Acta Materialia</i> , 2020, 183, 11-23.	7.9	31
139	Chiral Restructuring of Peptide Enantiomers on Gold Nanomaterials. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2612-2620.	5.2	12
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578	Gallium Sulfideâ€“Singleâ€“Walled Carbon Nanotube Composites: Highâ€“Performance Anodes for Lithiumâ€“Ion Batteries. Advanced Functional Materials, 2014, 24, 5435-5442.	14.9	102
579	<i>In situ</i> synchrotron X-ray diffraction study of deformation behavior and load transfer in a Ti ₂ Ni-NiTi composite. Applied Physics Letters, 2014, 105, .	3.3	14
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584	Grain size effect on the R-phase transformation of nanocrystalline NiTi shape memory alloys. Journal of Materials Science, 2014, 49, 4643-4647.	3.7	35
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599	Hydrogen Storage Properties of Magnesium Hydride with V-Based Additives. Journal of Physical Chemistry C, 2014, 118, 21778-21784.	3.1	34
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621	Formation of Li ₂ MnO ₃ investigated by in situ synchrotron probes. <i>Journal of Power Sources</i> , 2014, 266, 341-346.	7.8	20
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639	Evolution of lattice strain and phase transformation of β III Ti alloy during room temperature cyclic tension. <i>Acta Materialia</i> , 2013, 61, 6830-6842.	7.9	20
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645	Influence of short time anneal on recoverable strain of beta III titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 562, 172-179.	5.6	14
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678	Superelastic memory effect in <i>in-situ</i> NbTi-nanowire-NiTi nanocomposite. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	6
679	<i>In situ</i> X-ray diffraction study of deformation behavior in a Fe/NiTi composite. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	7
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682	and short-range magneto-electric clusters in CdCr ₂ S ₄	3.2	28
683	Nearly Zero Thermal Expansion Along the Layer-Stacking Axis of ZnSe-Based Inorganic-Organic Hybrid Semiconductor Materials. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5966-5971.	2.0	8
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701	Atomic-Scale Mechanisms of the Glass-Forming Ability in Metallic Glasses. <i>Physical Review Letters</i> , 2012, 109, 105502.	7.8	103
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704	Molecular arrangement in water: random but not quite. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 155102.	1.8	32
705	Enhanced Electron Extraction from Template-Free 3D Nanoparticulate Transparent Conducting Oxide (TCO) Electrodes for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4419-4427.	8.0	46
706	High-Energy Synchrotron X-Ray Diffraction and Its Application to In-Situ Structural Phase-Transition Studies in Complex Sample Environments. <i>Jom</i> , 2012, 64, 140-149.	1.9	36
707	High-Energy Synchrotron X-Ray Diffraction for In-Situ Study of Phase Transformation in Shape-Memory Alloys. <i>Jom</i> , 2012, 64, 150-160.	1.9	6
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709	Facile synthesis of gamma-MnS hierarchical nanostructures with high photoluminescence. <i>Ceramics International</i> , 2012, 38, 875-881.	4.8	17
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719	Giant Moment Enhancement of Magnetic Nanoparticles Embedded in Multi-Walled Carbon Nanotubes: Consistent with Ultrahigh Temperature Superconductivity. , 2011, , .		0
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