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## List of Publications by Year in descending order

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226  
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docs citations

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times ranked

9552  
citing authors

#	ARTICLE	IF	CITATIONS
1	High Entropy Alloys: Advanced Synchrotron X-Ray and Neutron Scattering Studies. , 2022, , 381-392.		1
2	Effects of Zr addition on lattice strains and electronic structures of NbTaTiV high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142293.	2.6	12
3	Unraveling transition-metal-mediated stability of spinel oxide via in situ neutron scattering. Journal of Energy Chemistry, 2022, 68, 60-70.	7.1	3
4	Microstructure and tensile behavior of powder metallurgy FeCrAl accident tolerant fuel cladding. Journal of Nuclear Materials, 2022, 560, 153524.	1.3	15
5	Transient Phase-Driven Cyclic Deformation in Additively Manufactured 15-5 PH Steel. Materials, 2022, 15, 777.	1.3	3
6	Crystallographic orientation and spatially resolved damage for polycrystalline deformation of a high manganese steel. Acta Materialia, 2022, 226, 117628.	3.8	10
7	On the torsional and coupled torsion-tension/compression behavior of magnesium alloy solid rod: A crystal plasticity evaluation. International Journal of Plasticity, 2022, 151, 103213.	4.1	11
8	Modular assembly of electron transfer pathways in bimetallic MOFs for photocatalytic ammonia synthesis. Catalysis Science and Technology, 2022, 12, 2015-2022.	2.1	10
9	Multi-stepwise charge transfer <i>via</i> MOF@MOF/TiO <sub>2</sub> dual-heterojunction photocatalysts towards hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 9717-9725.	5.2	37
10	Improving the oxygen redox reversibility of Li-rich battery cathode materials via Coulombic repulsive interactions strategy. Nature Communications, 2022, 13, 1123.	5.8	81
11	Two-dimensional zero thermal expansion in low-cost Mn <sub>x</sub> Fe <sub>5-<i>x</i></sub> Si <sub>3</sub> alloys via integrating crystallographic texture and magneto-volume effect. Science China Materials, 2022, 65, 1912-1919.	3.5	6
12	In-situ neutron diffraction investigation of two-stage martensitic transformation in a 13%Mn steel with serrated deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142955.	2.6	4
13	Temperature and stress dependent twinning behavior in a fully austenitic medium-Mn steel. Acta Materialia, 2022, 231, 117864.	3.8	20
14	Discovery of a reversible redox-induced order-disorder transition in a 10-component compositionally complex ceramic. Scripta Materialia, 2022, 215, 114699.	2.6	8
15	Anomalous high-temperature quasi-linear superelasticity of Ni-Fe-Ga-Co shape memory alloy. Journal of Alloys and Compounds, 2022, 909, 164808.	2.8	3
16	Stabilizing the Anionic Redox in 4.6 V LiCoO <sub>2</sub> Cathode through Adjusting Oxygen Magnetic Moment. Advanced Functional Materials, 2022, 32, .	7.8	19
17	MENU“Materials engineering by neutron scattering. Review of Scientific Instruments, 2022, 93, 053911.	0.6	4
18	Tailored deformation behavior of 304L stainless steel through control of the crystallographic texture with laser-powder bed fusion. Materials and Design, 2022, 219, 110789.	3.3	10

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19	Elastic behavior of binary and ternary refractory multi-principal-element alloys. <i>Materials and Design</i> , 2022, 219, 110820.	3.3	9
20	A Seawater-Resistant and Isotropic Zero Thermal Expansion (Zr,Ta)(Fe,Co) <sub>2</sub> Alloy. <i>Advanced Materials</i> , 2022, 34, .	11.1	12
21	Unravelling thermal history during additive manufacturing of martensitic stainless steel. <i>Journal of Alloys and Compounds</i> , 2021, 857, 157555.	2.8	25
22	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.	1.3	21
23	Microstructure, Hardness, and Residual Stress of the Dissimilar Metal Weldments of SA508-309L/308L-304L. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 1927-1938.	1.1	14
24	Design and Optimization of the Direct Recycling of Spent Li-Ion Battery Cathode Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4543-4553.	3.2	81
25	In situ monitoring of dislocation, twinning, and detwinning modes in an extruded magnesium alloy under cyclic loading conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 806, 140860.	2.6	11
26	Enhancing fatigue life by ductile-transformable multicomponent B2 precipitates in a high-entropy alloy. <i>Nature Communications</i> , 2021, 12, 3588.	5.8	102
27	Bifunctional nanoprecipitates strengthen and ductilize a medium-entropy alloy. <i>Nature</i> , 2021, 595, 245-249.	13.7	141
28	High-throughput design of high-performance lightweight high-entropy alloys. <i>Nature Communications</i> , 2021, 12, 4329.	5.8	112
29	Viscoplastic lattice strain during repeated relaxation of age-hardened Al alloy. <i>Mechanics of Materials</i> , 2021, 158, 103899.	1.7	7
30	Boosting Nitrogen Activation via Bimetallic Organic Frameworks for Photocatalytic Ammonia Synthesis. <i>ACS Catalysis</i> , 2021, 11, 9986-9995.	5.5	61
31	Direct evidence of the stacking fault-mediated strain hardening phenomenon. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	18
32	On-Surface Bottom-Up Construction of COF Nanoshells towards Photocatalytic H <sub>2</sub> Production. <i>Research</i> , 2021, 2021, 9798564.	2.8	10
33	Plastic and low-cost axial zero thermal expansion alloy by a natural dual-phase composite. <i>Nature Communications</i> , 2021, 12, 4701.	5.8	24
34	Strength can be controlled by edge dislocations in refractory high-entropy alloys. <i>Nature Communications</i> , 2021, 12, 5474.	5.8	64
35	Gradient cell-structured high-entropy alloy with exceptional strength and ductility. <i>Science</i> , 2021, 374, 984-989.	6.0	316
36	Investigating Mechano-Electrochemical Coupling Phenomenon in Lithium-Ion Pouch Cells Using In-situ Neutron Diffraction. <i>ECS Transactions</i> , 2021, 104, 75-85.	0.3	1

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37	Monitoring residual strain relaxation and preferred grain orientation of additively manufactured Inconel 625 by in-situ neutron imaging. <i>Additive Manufacturing</i> , 2021, 46, 102130.	1.7	7
38	Mapping of Texture and Phase Fractions in Heterogeneous Stress States during Multiaxial Loading of Biomedical Superelastic NiTi. <i>Advanced Materials</i> , 2021, 33, e2005092.	11.1	7
39	Influence of Volume Fraction of Long-Period Stacking Ordered Structure Phase on the Deformation Processes during Cyclic Deformation of Mg-Y-Zn Alloys. <i>Crystals</i> , 2021, 11, 11.	1.0	9
40	Creep properties of advanced austenitic steel 709 determined through short experiments under in-situ neutron diffraction followed by TEM characterization. <i>Materials Characterization</i> , 2021, 182, 111519.	1.9	0
41	Magnetic ordering suppressed phase transformation of a TRIP-HEA during thermal cycling. <i>Applied Physics Letters</i> , 2021, 119, 171906.	1.5	1
42	Superior High-Temperature Strength in a Supersaturated Refractory High-Entropy Alloy. <i>Advanced Materials</i> , 2021, 33, e2102401.	11.1	89
43	Micromechanical and microstructure analysis of strain-induced phenomena in ultrasonic additively-manufactured Al-6061 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 770, 138533.	2.6	10
44	On plastic anisotropy and deformation history-driven anelasticity of an extruded magnesium alloy. <i>Scripta Materialia</i> , 2020, 176, 36-41.	2.6	14
45	Investigating the deformation mechanisms of a highly metastable high entropy alloy using in-situ neutron diffraction. <i>Materials Today Communications</i> , 2020, 23, 100858.	0.9	18
46	Efficient Direct Recycling of Lithium-Ion Battery Cathodes by Targeted Healing. <i>Joule</i> , 2020, 4, 2609-2626.	11.7	260
47	The anomalous staircase-like magnetization behavior and giant magnetocaloric effect in a Fe-Mn-Ga magnetic shape memory alloy. <i>Intermetallics</i> , 2020, 127, 106975.	1.8	4
48	Phase Stress Partition in Gray Cast Iron Using In Situ Neutron Diffraction Measurements. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5029-5035.	1.1	2
49	Lattice-Distortion-Enhanced Yield Strength in a Refractory High-Entropy Alloy. <i>Advanced Materials</i> , 2020, 32, e2004029.	11.1	121
50	Tuning Both Anionic and Cationic Redox Chemistry of Li-Rich $\text{Li}_{1.2}\text{Mn}_{0.6}\text{Ni}_{0.2}\text{O}_2$ via a "Three-in-One" Strategy. <i>Chemistry of Materials</i> , 2020, 32, 9404-9414.	3.2	27
51	High performance and low thermal expansion in Er-Fe-V-Mo dual-phase alloys. <i>Acta Materialia</i> , 2020, 198, 271-280.	3.8	20
52	A disordered rock salt anode for fast-charging lithium-ion batteries. <i>Nature</i> , 2020, 585, 63-67.	13.7	326
53	Temperature dependence of elastic and plastic deformation behavior of a refractory high-entropy alloy. <i>Science Advances</i> , 2020, 6, .	4.7	101
54	A high-pressure flow through test vessel for neutron imaging and neutron diffraction-based strain measurement of geological materials. <i>Review of Scientific Instruments</i> , 2020, 91, 084502.	0.6	3

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55	Correlating work hardening with co-activation of stacking fault strengthening and transformation in a high entropy alloy using in-situ neutron diffraction. <i>Scientific Reports</i> , 2020, 10, 22263.	1.6	17
56	Bioinspired Construction of g-C <sub>3</sub> N <sub>4</sub> Nanolayers on a Carbonized Polydopamine Nanosphere Surface with Excellent Photocatalytic Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 12389-12398.	1.8	11
57	Size effect in stainless steel thin wires under tension. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 790, 139686.	2.6	5
58	In Situ Neutron Diffraction Study of Phase Transformation of High Mn Steel with Different Carbon Content. <i>Crystals</i> , 2020, 10, 101.	1.0	3
59	<i>In situ</i> construction of hydrazone-linked COF-based core-shell hetero-frameworks for enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7724-7732.	5.2	108
60	The effect of oxygen vacancy and spinel phase integration on both anionic and cationic redox in Li-rich cathode materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7733-7745.	5.2	101
61	Synthesis and catalytic performance of polydopamine supported metal nanoparticles. <i>Scientific Reports</i> , 2020, 10, 10416.	1.6	27
62	Recognition of V <sup>3+</sup> /V <sup>4+</sup> /V <sup>5+</sup> Multielectron Reactions in Na <sub>3</sub> V(PO <sub>4</sub> ) <sub>2</sub> : A Potential High Energy Density Cathode for Sodium-Ion Batteries. <i>Molecules</i> , 2020, 25, 1000.	1.7	7
63	Effect of nickel on the kinematic stability of retained austenite in carburized bearing steels – In-situ neutron diffraction and crystal plasticity modeling of uniaxial tension tests in AISI 8620, 4320 and 3310 steels. <i>International Journal of Plasticity</i> , 2020, 131, 102748.	4.1	22
64	Crystallographic orientation and spatially resolved damage in a dispersion-hardened Al alloy. <i>Acta Materialia</i> , 2020, 193, 138-150.	3.8	33
65	Operando measurement of lattice strain in internal combustion engine components by neutron diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33061-33071.	3.3	7
66	Element Effects on High-Entropy Alloy Vacancy and Heterogeneous Lattice Distortion Subjected to Quasi-equilibrium Heating. <i>Scientific Reports</i> , 2019, 9, 14788.	1.6	27
67	VULCAN: A ‘‘hammer’’ for high-temperature materials research. <i>MRS Bulletin</i> , 2019, 44, 878-885.	1.7	45
68	Time-of-Flight Neutron Diffraction (TOF-ND) Analyses of the Composition and Minting of Ancient Judean ‘‘Biblical’’ Coins. <i>Journal of Analytical Methods in Chemistry</i> , 2019, 2019, 1-18.	0.7	2
69	First-principles and machine learning predictions of elasticity in severely lattice-distorted high-entropy alloys with experimental validation. <i>Acta Materialia</i> , 2019, 181, 124-138.	3.8	113
70	Neutron transmission simulation of texture in polycrystalline materials. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 459, 166-178.	0.6	11
71	Elucidating the Limit of Li Insertion into the Spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> . , 2019, 1, 96-102.		45
72	Novel Ordered Rocksalt-Type Lithium-Rich Li <sub>2</sub> Ru <sub>1-x</sub> Ni <sub>x</sub> O <sub>3</sub> (0.3 ≤ x ≤ 0.5) <sub>2.5</sub> Cathode Material with Tunable Anionic Redox Potential. <i>ACS Applied Energy Materials</i> , 2019, 2, 5933-5944.		22

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73	Investigating the Difference in Mechanical Stability of Retained Austenite in Bainitic and Martensitic High-Carbon Bearing Steels using in situ Neutron Diffraction and Crystal Plasticity Modeling. <i>Metals</i> , 2019, 9, 482.	1.0	7
74	Formation, structure and properties of biocompatible TiZrHfNbTa high-entropy alloys. <i>Materials Research Letters</i> , 2019, 7, 225-231.	4.1	131
75	Hardening steels by the generation of transient phase using additive manufacturing. <i>Intermetallics</i> , 2019, 109, 60-67.	1.8	23
76	Mixed-conducting interlayer boosting the electrochemical performance of Ni-rich layered oxide cathode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2019, 421, 91-99.	4.0	101
77	Transformation-reinforced high-entropy alloys with superior mechanical properties via tailoring stacking fault energy. <i>Journal of Alloys and Compounds</i> , 2019, 792, 444-455.	2.8	90
78	In situ investigation of stress-induced martensitic transformation in granular shape memory ceramic packings. <i>Acta Materialia</i> , 2019, 168, 362-375.	3.8	21
79	Elucidating the mobility of H <sup>+</sup> and Li <sup>+</sup> ions in (Li <sub>0.625</sub> xH <sub>x</sub> Al <sub>0.25</sub> )La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> via <i>in-situ</i> correlative neutron and electron spectroscopy. <i>Energy and Environmental Science</i> , 2019, 12, 945-951.	1.4	48
80	Solving the strength-ductility tradeoff in the medium-entropy NiCoCr alloy via interstitial strengthening of carbon. <i>Intermetallics</i> , 2019, 106, 77-87.	1.8	77
81	Multiscale mechanical fatigue damage of stainless steel investigated by neutron diffraction and X-ray microdiffraction. <i>Acta Materialia</i> , 2019, 165, 336-345.	3.8	18
82	In-situ neutron diffraction investigation on twinning/detwinning activities during tension-compression load reversal in a twinning induced plasticity steel. <i>Scripta Materialia</i> , 2018, 150, 168-172.	2.6	30
83	Applying neutron transmission physics and 3D statistical full-field model to understand 2D Bragg-edge imaging. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	10
84	Crystal Structure and Transport Properties of Oxygen-Deficient Perovskite Sr <sub>0.9</sub> Y <sub>0.1</sub> CoO <sub>3-δ</sub> . <i>ACS Applied Energy Materials</i> , 2018, 1, 822-832.	2.5	6
85	Identifying the chemical and structural irreversibility in LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> as a model compound for classical layered intercalation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4189-4198.	5.2	48
86	Grain Orientation Dependence of the Residual Lattice Strain in a Cold Rolled Interstitial-Free Steel. <i>Steel Research International</i> , 2018, 89, 1700408.	1.0	12
87	Determination of $\hat{\Gamma}^3$ Lattice Misfit in Ni-Based Single-Crystal Superalloys at High Temperatures by Neutron Diffraction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 740-751.	1.1	32
88	Probing the electrolyte infiltration behaviour of activated carbon supercapacitor electrodes by in situ neutron scattering using aqueous NaCl as electrolyte. <i>Carbon</i> , 2018, 136, 139-142.	5.4	19
89	Exceptionally High Performance Anode Material Based on Lattice Structure Decorated Double Perovskite Sr <sub>2</sub> FeMo <sub>2/3</sub> Mg <sub>1/3</sub> O <sub>6</sub> for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800062.	10.2	62
90	In-situ neutron diffraction and crystal plasticity finite element modeling to study the kinematic stability of retained austenite in bearing steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 579-587.	2.6	18

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91	Distinct Recrystallization Pathways in a Cold-Rolled Al-2%Mg Alloy Evidenced by In-Situ Neutron Diffraction. <i>Quantum Beam Science</i> , 2018, 2, 17.	0.6	3
92	RHEGAL: Resistive heating gas enclosure loadframe for in situ neutron scattering. <i>Review of Scientific Instruments</i> , 2018, 89, 092901.	0.6	4
93	Enhanced strength and ductility in a high-entropy alloy via ordered oxygen complexes. <i>Nature</i> , 2018, 563, 546-550.	13.7	988
94	Tracing Phase Transformation and Lattice Evolution in a TRIP Sheet Steel under High-Temperature Annealing by Real-Time In Situ Neutron Diffraction. <i>Crystals</i> , 2018, 8, 360.	1.0	10
95	Time and frequency dependent mechanical properties of LaCoO <sub>3</sub> -based perovskites: Neutron diffraction and domain mobility. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	3
96	A suite-level review of the neutron powder diffraction instruments at Oak Ridge National Laboratory. <i>Review of Scientific Instruments</i> , 2018, 89, 092701.	0.6	90
97	Deformation mechanisms and work-hardening behavior of transformation-induced plasticity high entropy alloys by <i>in-situ</i> neutron diffraction. <i>Materials Research Letters</i> , 2018, 6, 620-626.	4.1	41
98	Understanding Structure-Activity Relationships in Sr <sub>1-x</sub> Y <sub>x</sub> CoO <sub>3-δ</sub> through in Situ Neutron Diffraction and Electrochemical Measurements. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35984-35993.	4.0	5
99	Revealing the Structural Stability and Na-Ion Mobility of 3D Superionic Conductor Na <sub>3</sub> SbS <sub>4</sub> at Extremely Low Temperatures. <i>ACS Applied Energy Materials</i> , 2018, 1, 7028-7034.	2.5	20
100	Transition from the twinning induced plasticity to the $\gamma$ - $\mu$ transformation induced plasticity in a high manganese steel. <i>Acta Materialia</i> , 2018, 161, 273-284.	3.8	17
101	Bending Behavior of a Wrought Magnesium Alloy Investigated by the In Situ Pinhole Neutron Diffraction Method. <i>Crystals</i> , 2018, 8, 348.	1.0	5
102	Lattice distortion in a strong and ductile refractory high-entropy alloy. <i>Acta Materialia</i> , 2018, 160, 158-172.	3.8	325
103	An in situ neutron diffraction study of plastic deformation in a Cu <sub>46.5</sub> Zr <sub>46.5</sub> Al <sub>7</sub> bulk metallic glass composite. <i>Scripta Materialia</i> , 2018, 153, 118-121.	2.6	18
104	Simultaneous Operando Measurements of the Local Temperature, State of Charge, and Strain inside a Commercial Lithium-Ion Battery Pouch Cell. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1578-A1585.	1.3	39
105	In situ neutron diffraction study on tensile deformation behavior of carbon-strengthened CoCrFeMnNi high-entropy alloys at room and elevated temperatures. <i>Journal of Materials Research</i> , 2018, 33, 3192-3203.	1.2	7
106	Event-based processing of neutron scattering data at the Spallation Neutron Source. <i>Journal of Applied Crystallography</i> , 2018, 51, 616-629.	1.9	35
107	Real-Time In Situ Neutron Diffraction Investigation of Phase-Specific Load Sharing in a Cold-Rolled TRIP Sheet Steel. <i>Jom</i> , 2018, 70, 1576-1586.	0.9	15
108	PIND: High spatial resolution by pinhole neutron diffraction. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	9

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109	Damage Precursor Assessment in Aerospace Structural Materials. , 2018, , .		1
110	Structure Evolution and Thermoelectric Properties of Carbonized Polydopamine Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 6655-6660.	4.0	77
111	Energy Storage: Lattice Cell Orientation Disorder in Complex Spinel Oxides (Adv. Energy Mater. 4(2017). Advanced Energy Materials, 2017, 7, .	10.2	0
112	Effect of external stress on deuteride (hydride) precipitation in Zircaloy-4 using in situ neutron diffraction. Journal of Nuclear Materials, 2017, 487, 396-405.	1.3	11
113	NaAlTi <sub>3</sub> O <sub>8</sub> , A Novel Anode Material for Sodium Ion Battery. Scientific Reports, 2017, 7, 162.	1.6	16
114	Stress-induced charge-ordering process in LiMn <sub>2</sub> O <sub>4</sub> . Materials Research Letters, 2017, 5, 89-94.	4.1	9
115	In-situ neutron diffraction study on the tension-compression fatigue behavior of a twinning induced plasticity steel. Scripta Materialia, 2017, 137, 83-87.	2.6	27
116	Twinning-mediated work hardening and texture evolution in CrCoFeMnNi high entropy alloys at cryogenic temperature. Materials and Design, 2017, 131, 419-427.	3.3	54
117	Phase Transformation Ductilization of Brittle High Entropy Alloys via Metastability Engineering. Advanced Materials, 2017, 29, 1701678.	11.1	421
118	Deformation characteristics of the intermetallic alloy 60NiTi. Intermetallics, 2017, 82, 40-52.	1.8	55
119	Thermophysical properties of Ni-containing single-phase concentrated solid solution alloys. Materials and Design, 2017, 117, 185-192.	3.3	96
120	A study of stress-induced phase transformation and micromechanical behavior of CuZr-based alloy by in-situ neutron diffraction. Journal of Alloys and Compounds, 2017, 696, 1096-1104.	2.8	19
121	Kinetic characteristics up to 4.8 V of layered LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode materials for high voltage lithium-ion batteries. Electrochimica Acta, 2017, 227, 152-161.	2.6	36
122	Enhancing the Ion Transport in LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> by Altering the Particle Wulff Shape via Anisotropic Surface Segregation. ACS Applied Materials & Interfaces, 2017, 9, 36745-36754.	4.0	39
123	Neutron residual stress measurement and numerical modeling in a curved thin-walled structure by laser powder bed fusion additive manufacturing. Materials and Design, 2017, 135, 122-132.	3.3	106
124	A Combined Variable-Temperature Neutron Diffraction and Thermogravimetric Analysis Study on a Promising Oxygen Electrode, SrCo <sub>0.9</sub> Nb <sub>0.1</sub> O <sub>3</sub> , for Reversible Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2017, 9, 34855-34864.	4.0	18
125	High performance aluminum cerium alloys for high-temperature applications. Materials Horizons, 2017, 4, 1070-1078.	6.4	155
126	Martensitic transformation in a B2-containing CuZr-based BMG composite revealed by in situ neutron diffraction. Journal of Alloys and Compounds, 2017, 723, 714-721.	2.8	18



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127	Lattice-Cell Orientation Disorder in Complex Spinel Oxides. <i>Advanced Energy Materials</i> , 2017, 7, 1601950.	10.2	21
128	In Situ Neutron Scattering Study of Nanostructured PbTe-PbS Bulk Thermoelectric Material. <i>Journal of Electronic Materials</i> , 2017, 46, 2604-2610.	1.0	4
129	In-situ TOF neutron diffraction studies of cyclic softening in superelasticity of a NiFeGaCo shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 680, 324-328.	2.6	13
130	Transformation-induced plasticity in bulk metallic glass composites evidenced by in-situ neutron diffraction. <i>Acta Materialia</i> , 2017, 124, 478-488.	3.8	93
131	In-situ Neutron Diffraction Analysis of Crystal Plasticity of Retained Austenite in Bearing Steel. <i>Procedia Engineering</i> , 2017, 207, 1958-1963.	1.2	4
132	Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. <i>Journal of Imaging</i> , 2017, 3, 65.	1.7	31
133	An Air- $\text{Stable Na}_3\text{SbS}_4$ Superionic Conductor Prepared by a Rapid and Economic Synthetic Procedure. <i>Angewandte Chemie</i> , 2016, 128, 8693-8697.	1.6	44
134	An Air- $\text{Stable Na}_3\text{SbS}_4$ Superionic Conductor Prepared by a Rapid and Economic Synthetic Procedure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8551-8555.	7.2	183
135	Operando Lithium Dynamics in the Li-Rich Layered Oxide Cathode Material via Neutron Diffraction. <i>Advanced Energy Materials</i> , 2016, 6, 1502143.	10.2	98
136	Electrostatic levitation facility optimized for neutron diffraction studies of high temperature liquids at a spallation neutron source. <i>Review of Scientific Instruments</i> , 2016, 87, 013904.	0.6	22
137	In situ neutron scattering study of nanoscale phase evolution in PbTe-PbS thermoelectric material. <i>Applied Physics Letters</i> , 2016, 109, 081903.	1.5	8
138	$\beta$ -Phase transformation kinetics of U-8wt% Mo established by in situ neutron diffraction. <i>Journal of Nuclear Materials</i> , 2016, 477, 149-156.	1.3	16
139	Annealing effects on the structural and magnetic properties of off-stoichiometric Fe-Mn-Ga ferromagnetic shape memory alloys. <i>Materials and Design</i> , 2016, 104, 327-332.	3.3	19
140	Intragranular twinning, detwinning, and twinning-like lattice reorientation in magnesium alloys. <i>Acta Materialia</i> , 2016, 121, 15-23.	3.8	46
141	Deformation mode transition of Mg <sub>3</sub> Li alloy: An in situ neutron diffraction study. <i>Journal of Alloys and Compounds</i> , 2016, 685, 331-336.	2.8	8
142	Probing Multiscale Transport and Inhomogeneity in a Lithium-Ion Pouch Cell Using In Situ Neutron Methods. <i>ACS Energy Letters</i> , 2016, 1, 981-986.	8.8	43
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