

# Hai-Yan Wang

## List of Publications by Year in descending order

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670  
papers

29,157  
citations

7568

77  
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11607

135  
g-index

680  
all docs

680  
docs citations

680  
times ranked

19088  
citing authors

#	ARTICLE	IF	CITATIONS
1	High stability of flexible perovskite transparent conductive oxide film via van der Waals heteroepitaxy. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161897.	5.5	10
2	Effects of incubation on microstructure gradient in flash-sintered TiO <sub>2</sub> . <i>Scripta Materialia</i> , 2022, 207, 114270.	5.2	10
3	Achieving strong and stable nanocrystalline Al alloys through compositional design. <i>Journal of Materials Research</i> , 2022, 37, 183-207.	2.6	5
4	Investigation of strengthening mechanisms in an additively manufactured Haynes 230 alloy. <i>Acta Materialia</i> , 2022, 222, 117404.	7.9	43
5	Self-assembled vertically aligned nanocomposite systems integrated on silicon substrate: Progress and future perspectives. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	2.1	6
6	Printing dynamic color palettes and layered textures through modeling-guided stacking of electrochromic polymers. <i>Materials Horizons</i> , 2022, 9, 425-432.	12.2	18
7	Advances in synthesis and applications of boron nitride nanotubes: A review. <i>Chemical Engineering Journal</i> , 2022, 431, 134118.	12.7	38
8	Thermal Safety Analysis of Disordered Li-Rich Rock salt Li <sub>1.3</sub> Mn <sub>0.4</sub> Nb <sub>0.3</sub> O <sub>2</sub> Cathode. <i>ACS Applied Energy Materials</i> , 2022, 5, 516-523.	5.1	3
9	Enabling coherent BaZrO <sub>3</sub> nanorods/YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> interface through dynamic lattice enlargement in vertical epitaxy of BaZrO <sub>3</sub> /YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> nanocomposites. <i>Superconductor Science and Technology</i> , 2022, 35, 034001.	3.5	8
10	High ionic conductivity in fluorite Î-bismuth oxide-based vertically aligned nanocomposite thin films. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3478-3484.	10.3	10
11	Wireless Humidity Sensor for Smart Packaging via One-Step Laser-Induced Patterning and Nanoparticle Formation on Metallized Paper. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	23
12	Preparation and characterization of multifunctional piezoenergetic polyvinylidene fluoride/aluminum nanocomposite films. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	8
13	Surface chemistry and porosity engineering through etching reveal ultrafast oxygen reduction kinetics below 400Â°C in B-site exposed (La,Sr)(Co,Fe)O <sub>3</sub> thin-films. <i>Journal of Power Sources</i> , 2022, 523, 230983.	7.8	8
14	Low voltage control of magnetism in BaFe <sub>10.2</sub> Sc <sub>1.8</sub> O <sub>19</sub> /BaTiO <sub>3</sub> bilayer epitaxial thin film at temperatures up to 390â°K. <i>Applied Physics Letters</i> , 2022, 120, 062401.	3.3	1
15	Scaled indium oxide transistors fabricated using atomic layer deposition. <i>Nature Electronics</i> , 2022, 5, 164-170.	26.0	98
16	Role of Defects and Power Dissipation on Ferroelectric Memristive Switching. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	10
17	Laser-Assisted Nanotexturing and Silver Immobilization on Titanium Implant Surfaces to Enhance Bone Cell Mineralization and Antimicrobial Properties. <i>Langmuir</i> , 2022, 38, 4014-4027.	3.5	13
18	Epitaxial (110)-oriented La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> film directly on flexible mica substrate. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 224002.	2.8	6

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19	ZnO-AuxCu $1\hat{\sim}x$ Alloy and ZnO-AuxAl $1\hat{\sim}x$ Alloy Vertically Aligned Nanocomposites for Low-Loss Plasmonic Metamaterials. <i>Molecules</i> , 2022, 27, 1785.	3.8	5
20	Freestanding La $_{0.7}$ Sr $_{0.3}$ MnO $_3$ :NiO vertically aligned nanocomposite thin films for flexible perpendicular interfacial exchange coupling. <i>Materials Research Letters</i> , 2022, 10, 287-294.	8.7	11
21	Reducing Leakage Current and Enhancing Polarization in Multiferroic 3D Super-nanocomposites by Microstructure Engineering. <i>Nanotechnology</i> , 2022, , .	2.6	0
22	A generalized 3D elastic model for nanoscale, self-assembled oxide-metal thin films with pillar-in-matrix configurations. <i>Acta Materialia</i> , 2022, 228, 117779.	7.9	5
23	Deformation mechanism in nanolaminate FeCrAl alloys by in situ micromechanical strain rate jump tests at elevated temperatures. <i>Scripta Materialia</i> , 2022, 215, 114698.	5.2	7
24	Integration of Self-Assembled BaZrO $_3$ -Co Vertically Aligned Nanocomposites on Mica Substrates toward Flexible Spintronics. <i>Crystal Growth and Design</i> , 2022, 22, 718-725.	3.0	4
25	Tunable Three-Phase Co $\hat{=}$ CeO $_2$ $\hat{=}$ BaTiO $_3$ Hybrid Metamaterials with Nano-Mushroom-Like Structure for Tailorable Multifunctionalities. <i>ACS Applied Nano Materials</i> , 2022, 5, 6297-6304.	5.0	7
26	Emergent multiferroism with magnetodielectric coupling in EuTiO $_3$ created by a negative pressure control of strong spin-phonon coupling. <i>Nature Communications</i> , 2022, 13, 2364.	12.8	23
27	Optical dielectric properties of HfO $_2$ -based films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	2.1	3
28	Lithium-based vertically aligned nanocomposite films incorporating Li $_x$ La $_{0.32}$ (Nb $_{0.7}$ Ti $_{0.32}$ )O $_3$ electrolyte with high Li $^+$ ion conductivity. <i>APL Materials</i> , 2022, 10, .	5.1	6
29	A Biodegradable Hybrid Micro/Nano Conductive Zinc Paste for Paper $\hat{=}$ Based Flexible Bioelectronics. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	16
30	Vertically stacked multilayer atomic-layer-deposited sub-1-nm In $_2$ O $_3$ field-effect transistors with back-end-of-line compatibility. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	7
31	Tunable physical properties in Bi-based layered supercell multiferroics embedded with Au nanoparticles. <i>Nanoscale Advances</i> , 2022, 4, 3054-3064.	4.6	7
32	TiN $\hat{=}$ Fe Vertically Aligned Nanocomposites Integrated on Silicon as a Multifunctional Platform toward Device Applications. <i>Crystals</i> , 2022, 12, 849.	2.2	3
33	Effects of electric field on microstructure evolution and defect formation in flash-sintered TiO $_2$ . <i>Journal of the European Ceramic Society</i> , 2022, 42, 6040-6047.	5.7	14
34	Temperature dependent pinning efficiency in multilayer and single layer BZO/YBCO nanocomposite films. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1241, 012021.	0.6	3
35	Interface Engineering for Enhanced Magnetic Vortex Pinning by 1D-BZO APCs in a Wide Angular Range. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1241, 012022.	0.6	0
36	Intrinsic ferroelectricity in Y-doped HfO $_2$ thin films. <i>Nature Materials</i> , 2022, 21, 903-909.	27.5	66

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37	Tribological behaviors of nanotwinned Al alloys. <i>Applied Surface Science</i> , 2022, 600, 154108.	6.1	5
38	Design of 3D Oxideâ€Metal Hybrid Metamaterial for Tailorable Lightâ€Matter Interactions in Visible and Nearâ€Infrared Region. <i>Advanced Optical Materials</i> , 2021, 9, .	7.3	17
39	Tailoring the formation of twins in Al by introducing epitaxial layer interfaces. <i>Scripta Materialia</i> , 2021, 192, 1-6.	5.2	10
40	High-strength and tunable plasticity in sputtered Alâ€Cr alloys with multistage phase transformations. <i>International Journal of Plasticity</i> , 2021, 137, 102915.	8.8	9
41	Epitaxial TiN/MgO multilayers with ultrathin TiN and MgO layers as hyperbolic metamaterials in visible region. <i>Materials Today Physics</i> , 2021, 16, 100316.	6.0	10
42	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part II: Layer thickness effect. <i>Acta Materialia</i> , 2021, 204, 116494.	7.9	7
43	Review on the growth, properties and applications of self-assembled oxideâ€metal vertically aligned nanocomposite thin filmsâ€current and future perspectives. <i>Materials Horizons</i> , 2021, 8, 869-884.	12.2	23
44	Microstructural evolution of nanotwinned Al-Zr alloy with significant 9R phase. <i>Materials Research Letters</i> , 2021, 9, 91-98.	8.7	16
45	The influence of stacking faults on mechanical behavior of advanced materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 803, 140696.	5.6	38
46	Nitrideâ€Oxideâ€Metal Heterostructure with Selfâ€Assembled Coreâ€Shell Nanopillar Arrays: Effect of Ordering on Magnetoâ€Optical Properties. <i>Small</i> , 2021, 17, e2007222.	10.0	25
47	Self-Assembled BaTiO <sub>3</sub> â€Au <sub>x</sub> Ag <sub>1-x</sub> Low-Loss Hybrid Plasmonic Metamaterials with an Ordered â€Nano-Domino-likeâ€Microstructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5390-5398.	8.0	8
48	Route to High-Performance Micro-solid Oxide Fuel Cells on Metallic Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4117-4125.	8.0	9
49	High performance, electroforming-free, thin film memristors using ionic Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> . <i>Journal of Materials Chemistry C</i> , 2021, 9, 4522-4531.	5.5	10
50	Deposition pressure-induced microstructure control and plasmonic property tuning in hybrid ZnOâ€Ag <sub>x</sub> Au <sub>1-x</sub> thin films. <i>Nanoscale Advances</i> , 2021, 3, 2870-2878.	4.6	7
51	Electrical properties and charge compensation mechanisms of Cr-doped rutile, TiO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22133-22146.	2.8	8
52	Tailorable multifunctionalities in ultrathin 2D Bi-based layered supercell structures. <i>Nanoscale</i> , 2021, 13, 16672-16679.	5.6	5
53	Role of ALD Al <sub>2</sub> O <sub>3</sub> Surface Passivation on the Performance of p-Type Cu <sub>2</sub> O Thin Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4156-4164.	8.0	31
54	Multifunctional Metalâ€Oxide Nanocomposite Thin Film with Plasmonic Au Nanopillars Embedded in Magnetic La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> Matrix. <i>Nano Letters</i> , 2021, 21, 1032-1039.	9.1	26

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55	Defects in flash-sintered ceramics and their effects on mechanical properties. MRS Bulletin, 2021, 46, 44-51.	3.5	24
56	Thermal Stability of Nanocrystalline Gradient Inconel 718 Alloy. Crystals, 2021, 11, 53.	2.2	5
57	Laser-induced atmospheric Cu <sub>x</sub> O formation on copper surface with enhanced electrochemical performance for non-enzymatic glucose sensing. Journal of Materials Chemistry C, 2021, 9, 14997-15010.	5.5	16
58	Carbon Nanotube Supported Amorphous MoS <sub>2</sub> via Microwave Heating Synthesis for Enhanced Performance of Hydrogen Evolution Reaction. Energy Material Advances, 2021, 2021, .	11.0	20
59	Creating Ferromagnetic Insulating La <sub>0.9</sub> Ba <sub>0.1</sub> MnO <sub>3</sub> Thin Films by Tuning Lateral Coherence Length. ACS Applied Materials & Interfaces, 2021, 13, 8863-8870.	8.0	3
60	Strong pinning at high growth rates in rare earth barium cuprate (REBCO) superconductor films grown with liquid-assisted processing (LAP) during pulsed laser deposition. Superconductor Science and Technology, 2021, 34, 045012.	3.5	8
61	Characterization of precipitation in gradient Inconel 718 superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140718.	5.6	30
62	Self-Assembled Metal-Dielectric Hybrid Metamaterials in Vertically Aligned Nanocomposite Form with Tailorable Optical Properties and Coupled Multifunctionalities. Advanced Photonics Research, 2021, 2, 2000174.	3.6	12
63	Nanocomposite-Seeded Epitaxial Growth of Single-Domain Lithium Niobate Thin Films for Surface Acoustic Wave Devices. Advanced Photonics Research, 2021, 2, 2000149.	3.6	8
64	Electrochromic Properties of Perovskite NdNiO <sub>3</sub> Thin Films for Smart Windows. ACS Applied Electronic Materials, 2021, 3, 1719-1731.	4.3	16
65	Ferroelectric/multiferroic self-assembled vertically aligned nanocomposites: Current and future status. APL Materials, 2021, 9, .	5.1	15
66	Thermal stability of immiscible Cu-Ag/Fe triphase multilayers with triple junctions. Acta Materialia, 2021, 208, 116679.	7.9	26
67	Ultrathin epitaxial NbN superconducting films with high upper critical field grown at low temperature. Materials Research Letters, 2021, 9, 336-342.	8.7	10
68	Flash sintering of additively manufactured 3YSZ gears. Journal of the American Ceramic Society, 2021, 104, 3828-3832.	3.8	12
69	Formation of liquid phase and nanostructures in flash sintered ZnO. Scripta Materialia, 2021, 195, 113719.	5.2	13
70	Heavy ion irradiation response of an additively manufactured 316LN stainless steel. Journal of Nuclear Materials, 2021, 546, 152745.	2.7	16
71	Bioinspired Dynamic Camouflage from Colloidal Nanocrystals Embedded Electrochromics. Nano Letters, 2021, 21, 4500-4507.	9.1	40
72	Heteroepitaxy of flexible piezoelectric Pb(Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>3</sub> sensor on inorganic mica substrate for lamb wave-based structural health monitoring. Ceramics International, 2021, 47, 13156-13163.	4.8	15

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73	Ultra-high heating rate effects on the sintering of ceramic nanoparticles: an <i>in situ</i> TEM study. Materials Research Letters, 2021, 9, 373-381.	8.7	13
74	Stress of misfit dislocation at Fe/MgO interface drives the annihilation of radiation induced defects. Acta Materialia, 2021, 210, 116798.	7.9	7
75	A high-entropy manganite in an ordered nanocomposite for long-term application in solid oxide cells. Nature Communications, 2021, 12, 2660.	12.8	37
76	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectric-antiferromagnetic-ferrimagnetic nanocomposites. Nature Electronics, 2021, 4, 333-341.	26.0	18
77	Ultrathin transparent Copper(I) oxide films grown by plasma-enhanced atomic layer deposition for Back-end-of-line p-Type transistors. Nano Express, 2021, 2, 020023.	2.4	3
78	Ellipsometry-based failure analysis on translucent LiMn <sub>0.5</sub> Ni <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> in half-cell thin-film lithium-ion battery on glass substrates. Materials Today Advances, 2021, 10, 100142.	5.2	3
79	Recent Advances in Vertically Aligned Nanocomposites with Tunable Optical Anisotropy: Fundamentals and Beyond. Chemosensors, 2021, 9, 145.	3.6	3
80	High-strength nanocrystalline intermetallics with room temperature deformability enabled by nanometer thick grain boundaries. Science Advances, 2021, 7, .	10.3	13
81	High Strength and Low Coercivity of Cobalt with Three-Dimensional Nanoscale Stacking Faults. Nano Letters, 2021, 21, 6480-6486.	9.1	9
82	Ultra-fine-grained and gradient FeCrAl alloys with outstanding work hardening capability. Acta Materialia, 2021, 215, 117049.	7.9	21
83	Highly Conductive Copper-Silver Bimodal Paste for Low-Cost Printed Electronics. ACS Applied Electronic Materials, 2021, 3, 3352-3364.	4.3	27
84	Ramifications of Pulsed Laser Deposition Growth Temperature on BaHfO <sub>3</sub> and Y <sub>2</sub> O <sub>3</sub> Doped Y-Ba-Cu-O Thin Films™ Microstructure and Performance. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	1
85	Tuning magnetic and optical properties through strain in epitaxial LaCrO <sub>3</sub> thin films. Applied Physics Letters, 2021, 119, .	3.3	4
86	Strong Interfacial Coupling of Tunable Ni-NiO Nanocomposite Thin Films Formed by Self-Decomposition. ACS Applied Materials & Interfaces, 2021, 13, 39730-39737.	8.0	7
87	Ultrafast anchored SnO <sub>2</sub> nanoparticles revealed capacity fade and hysteresis abated stable cycling performance for high-rate lithium-ion batteries. Carbon, 2021, 185, 608-618.	10.3	5
88	High-Temperature and Flexible Piezoelectric Sensors for Lamb-Wave-Based Structural Health Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 47764-47772.	8.0	17
89	Enhancing magnetic pinning by BaZrO <sub>3</sub> nanorods forming coherent interface by strain-directed Ca-doping in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> nanocomposite films. Superconductor Science and Technology, 2021, 34, 104002.	3.5	12
90	Microstructure and defect gradients in DC and AC flash sintered ZnO. Ceramics International, 2021, 47, 28596-28602.	4.8	12

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91	Electric field-induced grain boundary degradation mechanism in yttria stabilized zirconia. Scripta Materialia, 2021, 204, 114130.	5.2	11
92	Linking far-from-equilibrium defect structures in ceramics to electromagnetic driving forces. Journal of Materials Chemistry A, 2021, 9, 8425-8434.	10.3	2
93	Hybrid Ag <sup>+</sup> /LiNbO <sub>3</sub> nanocomposite thin films with tailorable optical properties. Nanoscale Advances, 2021, 3, 1121-1126.	4.6	2
94	Epitaxial nanotwinned metals and alloys: synthesis-twin structure-property relations. CrystEngComm, 2021, 23, 6637-6649.	2.6	5
95	Modeling of flash sintering of ionic ceramics. MRS Bulletin, 2021, 46, 67-75.	3.5	5
96	Why In <sub>2</sub> O <sub>3</sub> Can Make 0.7 nm Atomic Layer Thin Transistors. Nano Letters, 2021, 21, 500-506.	9.1	99
97	Field-assisted growth of one-dimensional ZnO nanostructures with high defect density. Nanotechnology, 2021, 32, 095603.	2.6	8
98	Double-Exchange Bias Modulation under Horizontal and Perpendicular Field Directions by 3D Nanocomposite Design. ACS Applied Materials & Interfaces, 2021, 13, 50141-50148.	8.0	6
99	Electroforming-Free HfO <sub>2</sub> :CeO <sub>2</sub> Vertically Aligned Nanocomposite Memristors with Anisotropic Dielectric Response. ACS Applied Electronic Materials, 2021, 3, 5278-5286.	4.3	8
100	Study of BaCe <sub>0.4</sub> Zr <sub>0.4</sub> Y <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> /BaCe <sub>0.8</sub> Pr <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> (BCZY/BCP) bilayer membrane for Protonic Conductor Solid Oxide Fuel Cells (PC-SOFC). International Journal of Hydrogen Energy, 2020, 45, 5481-5490.	7.1	15
101	Interface Engineered Room-Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. Advanced Science, 2020, 7, 1901606.	11.2	24
102	Titanium Nitride Modified Photoluminescence from Single Semiconductor Nanoplatelets. Advanced Functional Materials, 2020, 30, 1904179.	14.9	7
103	Tunable physical properties in BiAl <sub>1-x</sub> Mn <sub>x</sub> O <sub>3</sub> thin films with novel layered supercell structures. Nanoscale Advances, 2020, 2, 315-322.	4.6	10
104	Enhancing electrochemical performance of thin film lithium ion battery via introducing tilted metal nanopillars as effective current collectors. Nano Energy, 2020, 69, 104381.	16.0	18
105	Tunable Optical Properties in Self-Assembled Oxide-Metal Hybrid Thin Films via Au Phase Geometry Control: From Nanopillars to Nanodisks. Advanced Optical Materials, 2020, 8, 1901359.	7.3	27
106	Field-assisted heating of Gd-doped ceria thin film. Journal of the American Ceramic Society, 2020, 103, 2309-2314.	3.8	11
107	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part I: Texture effect. Acta Materialia, 2020, 185, 181-192.	7.9	24
108	Ge <sub>2</sub> Sb <sub>2</sub> Se <sub>5</sub> Glass as High-capacity Promising Lithium-ion Battery Anode. Nano Energy, 2020, 68, 104326.	16.0	38

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109	3D Hybrid Trilayer Heterostructure: Tunable Au Nanorods and Optical Properties. ACS Applied Materials & Interfaces, 2020, 12, 45015-45022.	8.0	9
110	Strain Effects on the Growth of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ (LSMO)–NiO Nanocomposite Thin Films via Substrate Control. ACS Omega, 2020, 5, 23793-23798.	3.5	5
111	Real-time in situ optical tracking of oxygen vacancy migration in memristors. Nature Electronics, 2020, 3, 687-693.	26.0	43
112	Ultrafast, dry microwave superheating for the synthesis of an $\text{SbO}_x$ –GNP hybrid anode to investigate the Na-ion storage compatibility in ester and ether electrolytes. Chemical Communications, 2020, 56, 9663-9666.	4.1	5
113	Thermal stability of self-assembled ordered three-phase $\text{Au}$ – $\text{BaTiO}_3$ – $\text{ZnO}$ nanocomposite thin films <i>via in situ</i> heating in TEM. Nanoscale, 2020, 12, 23673-23681.	5.6	5
114	Effective doping control in Sm-doped $\text{BiFeO}_3$ thin films <i>via</i> deposition temperature. RSC Advances, 2020, 10, 40229-40233.	3.6	5
115	Au-Encapsulated Fe Nanorods in Oxide Matrix with Tunable Magneto-Optic Coupling Properties. ACS Applied Materials & Interfaces, 2020, 12, 51827-51836.	8.0	16
116	In-situ studies on the mechanical properties of He ion irradiated nanotwinned Ag. Journal of Nuclear Materials, 2020, 540, 152392.	2.7	14
117	Morphology Control of Self-Assembled Three-Phase Au- $\text{BaTiO}_3$ – $\text{ZnO}$ Hybrid Metamaterial for Tunable Optical Properties. Crystal Growth and Design, 2020, 20, 6101-6108.	3.0	14
118	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. Nano Letters, 2020, 20, 6614-6622.	9.1	38
119	Atomic-Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Long-Range Tuning of $\text{BO}_6$ Octahedra. Advanced Functional Materials, 2020, 30, 2001984.	14.9	12
120	Exchange Bias in a $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ /NiO Heterointerface Integrated on a Flexible Mica Substrate. ACS Applied Materials & Interfaces, 2020, 12, 39920-39925.	8.0	36
121	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. Advanced Functional Materials, 2020, 30, 2000664.	14.9	50
122	Recent Studies on Void Shrinkage in Metallic Materials Subjected to In Situ Heavy Ion Irradiations. Jom, 2020, 72, 4008-4016.	1.9	8
123	Coupled solute effects enable anomalous high-temperature strength and stability in nanotwinned Al alloys. Acta Materialia, 2020, 200, 378-388.	7.9	19
124	Irradiation induced void spheroidization, shrinkage and migration in Cu at elevated temperatures: An in situ study. Acta Materialia, 2020, 201, 504-516.	7.9	11
125	Multifunctional self-assembled $\text{BaTiO}_3$ -Au nanocomposite thin films on flexible mica substrates with tunable optical properties. Applied Materials Today, 2020, 21, 100856.	4.3	17
126	Anisotropic domains and antiferrodistortive-transition controlled magnetization in epitaxial manganite films on vicinal $\text{SrTiO}_3$ substrates. Applied Physics Letters, 2020, 117, .	3.3	11

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127	Design of super-strong and thermally stable nanotwinned Al alloys <i>via</i> solute synergy. <i>Nanoscale</i> , 2020, 12, 20491-20505.	5.6	12
128	Ceramic Material Processing Towards Future Space Habitat: Electric Current-Assisted Sintering of Lunar Regolith Simulant. <i>Materials</i> , 2020, 13, 4128.	2.9	7
129	Integration of highly anisotropic multiferroic BaTiO <sub>3</sub> â€“Fe nanocomposite thin films on Si towards device applications. <i>Nanoscale Advances</i> , 2020, 2, 4172-4178.	4.6	13
130	Induced ferroelectric phases in SrTiO <sub>3</sub> by a nanocomposite approach. <i>Nanoscale</i> , 2020, 12, 18193-18199.	5.6	15
131	Bidirectional tuning of phase transition properties in Ptâ€“VO <sub>2</sub> nanocomposite thin films. <i>Nanoscale</i> , 2020, 12, 17886-17894.	5.6	13
132	Flash sintering incubation kinetics. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	24
133	Self-assembled nitrideâ€“metal nanocomposites: recent progress and future prospects. <i>Nanoscale</i> , 2020, 12, 20564-20579.	5.6	12
134	Substrate oxygen sponge effect: A parameter for epitaxial manganite thin film growth. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	10
135	An Electronic Synapse Based on 2D Ferroelectric CuInP <sub>2</sub> S <sub>6</sub> . <i>Advanced Electronic Materials</i> , 2020, 6, 2000760.	5.1	57
136	Origin of unexpected lattice expansion and ferromagnetism in epitaxial EuTiO <sub>3</sub> â€“â†“ thin films. <i>Ceramics International</i> , 2020, 46, 19990-19995.	4.8	9
137	Negative-pressure enhanced ferroelectricity and piezoelectricity in lead-free BaTiO <sub>3</sub> ferroelectric nanocomposite films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8091-8097.	5.5	11
138	Nanoengineering room temperature ferroelectricity into orthorhombic SmMnO <sub>3</sub> films. <i>Nature Communications</i> , 2020, 11, 2207.	12.8	17
139	Spontaneous Ordering of Oxide-Oxide Epitaxial Vertically Aligned Nanocomposite Thin Films. <i>Annual Review of Materials Research</i> , 2020, 50, 229-253.	9.3	22
140	Strong and plastic metallic composites with nanolayered architectures. <i>Acta Materialia</i> , 2020, 195, 240-251.	7.9	31
141	Engineering lithium-ion battery cathodes for high-voltage applications using electromagnetic excitation. <i>Journal of Materials Science</i> , 2020, 55, 12177-12190.	3.7	10
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