

Di Zhang

List of Publications by Year in descending order

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279
papers

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46918

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11457
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.	2.8	10
2	Achieving strong and stable nanocrystalline Al alloys through compositional design. <i>Journal of Materials Research</i> , 2022, 37, 183-207.	1.2	5
3	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, .	0.9	6
4	Printing dynamic color palettes and layered textures through modeling-guided stacking of electrochromic polymers. <i>Materials Horizons</i> , 2022, 9, 425-432.	6.4	18
5	Thermal Safety Analysis of Disordered Li-Rich Rock salt $\text{Li}_{1.3}\text{Mn}_{0.4}\text{Nb}_{0.3}\text{O}_2$ Cathode. <i>ACS Applied Energy Materials</i> , 2022, 5, 516-523.	2.5	3
6	Enabling coherent BaZrO_3 nanorods/ YBaCuO interface through dynamic lattice enlargement in vertical epitaxy of $\text{BaZrO}_3/\text{YBaCuO}$ nanocomposites. <i>Superconductor Science and Technology</i> , 2022, 35, 034001.	1.8	8
7	Integration of Highly Luminescent Lead Halide Perovskite Nanocrystals on Transparent Lead Halide Nanowire Waveguides through Morphological Transformation and Spontaneous Growth in Water. <i>Small</i> , 2022, 18, e2105009.	5.2	11
8	High ionic conductivity in fluorite Pb -bismuth oxide-based vertically aligned nanocomposite thin films. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3478-3484.	5.2	10
9	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, .	2.6	23
10	Scaled indium oxide transistors fabricated using atomic layer deposition. <i>Nature Electronics</i> , 2022, 5, 164-170.	13.1	98
11	Role of Defects and Power Dissipation on Ferroelectric Memristive Switching. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	10
12	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.	1.6	13
13	Epitaxial (110)-oriented $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ film directly on flexible mica substrate. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 224002.	1.3	6
14	ZnO-AuxCu_{1-x} Alloy and ZnO-AuxAl_{1-x} Alloy Vertically Aligned Nanocomposites for Low-Loss Plasmonic Metamaterials. <i>Molecules</i> , 2022, 27, 1785.	1.7	5
15	Freestanding $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$:NiO vertically aligned nanocomposite thin films for flexible perpendicular interfacial exchange coupling. <i>Materials Research Letters</i> , 2022, 10, 287-294.	4.1	11
16	Reducing Leakage Current and Enhancing Polarization in Multiferroic 3D Super-nanocomposites by Microstructure Engineering. <i>Nanotechnology</i> , 2022, . .	1.3	0
17	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.	3.8	5
18	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.	1.4	4

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19	Tunable Three-Phase Co ₂ â€“BaTiO ₃ Hybrid Metamaterials with Nano-Mushroom-Like Structure for Tailorable Multifunctionalities. ACS Applied Nano Materials, 2022, 5, 6297-6304.	2.4	7
20	Emergent multiferroism with magnetodielectric coupling in EuTiO ₃ created by a negative pressure control of strong spin-phonon coupling. Nature Communications, 2022, 13, 2364.	5.8	23
21	Optical dielectric properties of HfO ₂ -based films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	3
22	A Biodegradable Hybrid Micro/Nano Conductive Zinc Paste for Paperâ€“Based Flexible Bioelectronics. Advanced Materials Technologies, 2022, 7, .	3.0	16
23	Vertically stacked multilayer atomic-layer-deposited sub-1-nm In ₂ O ₃ field-effect transistors with back-end-of-line compatibility. Applied Physics Letters, 2022, 120, .	1.5	7
24	Tunable physical properties in Bi-based layered supercell multiferroics embedded with Au nanoparticles. Nanoscale Advances, 2022, 4, 3054-3064.	2.2	7
25	TiNâ€“Fe Vertically Aligned Nanocomposites Integrated on Silicon as a Multifunctional Platform toward Device Applications. Crystals, 2022, 12, 849.	1.0	3
26	Interface Engineering for Enhanced Magnetic Vortex Pinning by 1D-BZO APCs in a Wide Angular Range. IOP Conference Series: Materials Science and Engineering, 2022, 1241, 012022.	0.3	0
27	Design of 3D Oxideâ€“Metal Hybrid Metamaterial for Tailorable Lightâ€“Matter Interactions in Visible and Nearâ€“Infrared Region. Advanced Optical Materials, 2021, 9, .	3.6	17
28	Overcoming the Anisotropic Growth Limitations of Freeâ€“Standing Singleâ€“Crystal Halide Perovskite Films. Angewandte Chemie, 2021, 133, 2661-2668.	1.6	5
29	Overcoming the Anisotropic Growth Limitations of Freeâ€“Standing Singleâ€“Crystal Halide Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 2629-2636.	7.2	24
30	Epitaxial TiN/MgO multilayers with ultrathin TiN and MgO layers as hyperbolic metamaterials in visible region. Materials Today Physics, 2021, 16, 100316.	2.9	10
31	Engineered heat dissipation and current distribution boron nitride-graphene layer coated on polypropylene separator for high performance lithium metal battery. Journal of Colloid and Interface Science, 2021, 583, 362-370.	5.0	31
32	Review on the growth, properties and applications of self-assembled oxideâ€“metal vertically aligned nanocomposite thin filmsâ€“current and future perspectives. Materials Horizons, 2021, 8, 869-884.	6.4	23
33	Making g-C ₃ N ₄ ultra-thin nanosheets active for photocatalytic overall water splitting. Applied Catalysis B: Environmental, 2021, 282, 119557.	10.8	121
34	Nitrideâ€“Oxideâ€“Metal Heterostructure with Selfâ€“Assembled Coreâ€“Shell Nanopillar Arrays: Effect of Ordering on Magnetoâ€“Optical Properties. Small, 2021, 17, e2007222.	5.2	25
35	Self-Assembled BaTiO ₃ â€“Au_x/Ag_{1-x} Low-Loss Hybrid Plasmonic Metamaterials with an Ordered â€œNano-Domino-likeâ€“Microstructure. ACS Applied Materials & Interfaces, 2021, 13, 5390-5398.	4.0	8
36	Route to High-Performance Micro-solid Oxide Fuel Cells on Metallic Substrates. ACS Applied Materials & Interfaces, 2021, 13, 4117-4125.	4.0	9

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37	High performance, electroforming-free, thin film memristors using ionic Na _{0.5} Bi _{0.5} TiO ₃ . Journal of Materials Chemistry C, 2021, 9, 4522-4531.	2.7	10
38	Deposition pressure-induced microstructure control and plasmonic property tuning in hybrid ZnO-Ag _x Au _{1-x} thin films. Nanoscale Advances, 2021, 3, 2870-2878.	2.2	7
39	Electrical properties and charge compensation mechanisms of Cr-doped rutile, TiO ₂ . Physical Chemistry Chemical Physics, 2021, 23, 22133-22146.	1.3	8
40	Tailorable multifunctionalities in ultrathin 2D Bi-based layered supercell structures. Nanoscale, 2021, 13, 16672-16679.	2.8	5
41	Role of ALD Al ₂ O ₃ Surface Passivation on the Performance of p-Type Cu ₂ O Thin Film Transistors. ACS Applied Materials & Interfaces, 2021, 13, 4156-4164.	4.0	31
42	Multifunctional Metal-Oxide Nanocomposite Thin Film with Plasmonic Au Nanopillars Embedded in Magnetic La _{0.67} Sr _{0.33} MnO ₃ Matrix. Nano Letters, 2021, 21, 1032-1039.	4.5	26
43	Defects in flash-sintered ceramics and their effects on mechanical properties. MRS Bulletin, 2021, 46, 44-51.	1.7	24
44	Thermal Stability of Nanocrystalline Gradient Inconel 718 Alloy. Crystals, 2021, 11, 53.	1.0	5
45	Carbon Nanotube Supported Amorphous MoS ₂ via Microwave Heating Synthesis for Enhanced Performance of Hydrogen Evolution Reaction. Energy Material Advances, 2021, 2021, .	4.7	20
46	Creating Ferromagnetic Insulating La _{0.9} Ba _{0.1} MnO ₃ Thin Films by Tuning Lateral Coherence Length. ACS Applied Materials & Interfaces, 2021, 13, 8863-8870.	4.0	3
47	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.	1.8	8
48	Self-Assembled Metal-Dielectric Hybrid Metamaterials in Vertically Aligned Nanocomposite Form with Tailorable Optical Properties and Coupled Multifunctionalities. Advanced Photonics Research, 2021, 2, 2000174.	1.7	12
49	Nanocomposite-Seeded Epitaxial Growth of Single-Domain Lithium Niobate Thin Films for Surface Acoustic Wave Devices. Advanced Photonics Research, 2021, 2, 2000149.	1.7	8
50	Electrochromic Properties of Perovskite NdNiO ₃ Thin Films for Smart Windows. ACS Applied Electronic Materials, 2021, 3, 1719-1731.	2.0	16
51	Ferroelectric/multiferroic self-assembled vertically aligned nanocomposites: Current and future status. APL Materials, 2021, 9, .	2.2	15
52	Ultrathin epitaxial NbN superconducting films with high upper critical field grown at low temperature. Materials Research Letters, 2021, 9, 336-342.	4.1	10
53	Flash sintering of additively manufactured 3YSZ gears. Journal of the American Ceramic Society, 2021, 104, 3828-3832.	1.9	12
54	Bioinspired Dynamic Camouflage from Colloidal Nanocrystals Embedded Electrochromics. Nano Letters, 2021, 21, 4500-4507.	4.5	40

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55	Origin of High Interfacial Resistance in Solid-State Batteries: LLTO/LCO Half-Cells**. ChemElectroChem, 2021, 8, 1847-1857.	1.7	8
56	Heteroepitaxy of flexible piezoelectric Pb(Zr _{0.53} Ti _{0.47})O ₃ sensor on inorganic mica substrate for lamb wave-based structural health monitoring. Ceramics International, 2021, 47, 13156-13163.	2.3	15
57	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.	4.1	13
58	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectric-antiferromagnetic-ferrimagnetic nanocomposites. Nature Electronics, 2021, 4, 333-341.	13.1	18
59	Recent Advances in Vertically Aligned Nanocomposites with Tunable Optical Anisotropy: Fundamentals and Beyond. Chemosensors, 2021, 9, 145.	1.8	3
60	High-strength nanocrystalline intermetallics with room temperature deformability enabled by nanometer thick grain boundaries. Science Advances, 2021, 7, .	4.7	13
61	High Strength and Low Coercivity of Cobalt with Three-Dimensional Nanoscale Stacking Faults. Nano Letters, 2021, 21, 6480-6486.	4.5	9
62	Highly Conductive Copper-Silver Bimodal Paste for Low-Cost Printed Electronics. ACS Applied Electronic Materials, 2021, 3, 3352-3364.	2.0	27
63	Ordered hybrid metamaterial of La _{0.7} Sr _{0.3} MnO ₃ -Au vertically aligned nanocomposites achieved on templated SrTiO ₃ substrate. Materials Today Nano, 2021, 15, 100121.	2.3	9
64	Strong Interfacial Coupling of Tunable Ni-NiO Nanocomposite Thin Films Formed by Self-Decomposition. ACS Applied Materials & Interfaces, 2021, 13, 39730-39737.	4.0	7
65	High-Temperature and Flexible Piezoelectric Sensors for Lamb-Wave-Based Structural Health Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 47764-47772.	4.0	17
66	Enhancing magnetic pinning by BaZrO ₃ nanorods forming coherent interface by strain-directed Ca-doping in YBa ₂ Cu ₃ O _{7-x} nanocomposite films. Superconductor Science and Technology, 2021, 34, 104002.	1.8	12
67	Linking far-from-equilibrium defect structures in ceramics to electromagnetic driving forces. Journal of Materials Chemistry A, 2021, 9, 8425-8434.	5.2	2
68	Hybrid Ag-LiNbO ₃ nanocomposite thin films with tailorable optical properties. Nanoscale Advances, 2021, 3, 1121-1126.	2.2	2
69	Epitaxial nanotwinned metals and alloys: synthesis-twin structure-property relations. CrystEngComm, 2021, 23, 6637-6649.	1.3	5
70	Why In ₂ O ₃ Can Make 0.7 nm Atomic Layer Thin Transistors. Nano Letters, 2021, 21, 500-506.	4.5	99
71	Double-Exchange Bias Modulation under Horizontal and Perpendicular Field Directions by 3D Nanocomposite Design. ACS Applied Materials & Interfaces, 2021, 13, 50141-50148.	4.0	6
72	Core-shell metallic alloy nanopillars-in-dielectric hybrid metamaterials with magneto-plasmonic coupling. Materials Today, 2021, 51, 39-47.	8.3	14

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73	Electroforming-Free HfO ₂ :CeO ₂ Vertically Aligned Nanocomposite Memristors with Anisotropic Dielectric Response. ACS Applied Electronic Materials, 2021, 3, 5278-5286.	2.0	8
74	Interface Engineered Room-Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. Advanced Science, 2020, 7, 1901606.	5.6	24
75	Titanium Nitride Modified Photoluminescence from Single Semiconductor Nanoplatelets. Advanced Functional Materials, 2020, 30, 1904179.	7.8	7
76	Tunable physical properties in BiAl _{1-x} Mn _x O ₃ thin films with novel layered supercell structures. Nanoscale Advances, 2020, 2, 315-322.	2.2	10
77	Enhancing electrochemical performance of thin film lithium ion battery via introducing tilted metal nanopillars as effective current collectors. Nano Energy, 2020, 69, 104381.	8.2	18
78	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.	3.6	27
79	Field-assisted heating of Gd-doped ceria thin film. Journal of the American Ceramic Society, 2020, 103, 2309-2314.	1.9	11
80	3D Hybrid Trilayer Heterostructure: Tunable Au Nanorods and Optical Properties. ACS Applied Materials & Interfaces, 2020, 12, 45015-45022.	4.0	9
81	Electrochemical removal of anodic aluminium oxide templates for the production of phase-pure cuprous oxide nanorods for antimicrobial surfaces. Electrochemistry Communications, 2020, 120, 106833.	2.3	5
82	Strain Effects on the Growth of La _{0.7} Sr _{0.3} MnO ₃ (LSMO)-NiO Nanocomposite Thin Films via Substrate Control. ACS Omega, 2020, 5, 23793-23798.	1.6	5
83	Real-time in situ optical tracking of oxygen vacancy migration in memristors. Nature Electronics, 2020, 3, 687-693.	13.1	43
84	Ultrafast, dry microwave superheating for the synthesis of an SbOx-GNP hybrid anode to investigate the Na-ion storage compatibility in ester and ether electrolytes. Chemical Communications, 2020, 56, 9663-9666.	2.2	5
85	Thermal stability of self-assembled ordered three-phase Au-BaTiO ₃ -ZnO nanocomposite thin films via in situ heating in TEM. Nanoscale, 2020, 12, 23673-23681.	2.8	5
86	Effective doping control in Sm-doped BiFeO ₃ thin films via deposition temperature. RSC Advances, 2020, 10, 40229-40233.	1.7	5
87	Au-Encapsulated Fe Nanorods in Oxide Matrix with Tunable Magneto-Optic Coupling Properties. ACS Applied Materials & Interfaces, 2020, 12, 51827-51836.	4.0	16
88	Morphology Control of Self-Assembled Three-Phase Au-BaTiO ₃ -ZnO Hybrid Metamaterial for Tunable Optical Properties. Crystal Growth and Design, 2020, 20, 6101-6108.	1.4	14
89	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. Nano Letters, 2020, 20, 6614-6622.	4.5	38
90	Atomic-Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Long-Range Tuning of BO ₆ Octahedra. Advanced Functional Materials, 2020, 30, 2001984.	7.8	12

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91	Exchange Bias in a $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3/\text{NiO}$ Heterointerface Integrated on a Flexible Mica Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39920-39925.	4.0	36
92	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. <i>Advanced Functional Materials</i> , 2020, 30, 2000664.	7.8	50
93	Multifunctional self-assembled BaTiO_3 -Au nanocomposite thin films on flexible mica substrates with tunable optical properties. <i>Applied Materials Today</i> , 2020, 21, 100856.	2.3	17
94	Anisotropic domains and antiferrodistortive-transition controlled magnetization in epitaxial manganite films on vicinal SrTiO_3 substrates. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	11
95	Ceramic Material Processing Towards Future Space Habitat: Electric Current-Assisted Sintering of Lunar Regolith Simulant. <i>Materials</i> , 2020, 13, 4128.	1.3	7
96	Integration of highly anisotropic multiferroic BaTiO_3 -Fe nanocomposite thin films on Si towards device applications. <i>Nanoscale Advances</i> , 2020, 2, 4172-4178.	2.2	13
97	Bidirectional tuning of phase transition properties in Pt/VO_2 nanocomposite thin films. <i>Nanoscale</i> , 2020, 12, 17886-17894.	2.8	13
98	Flash sintering incubation kinetics. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	24
99	Self-assembled nitride-metal nanocomposites: recent progress and future prospects. <i>Nanoscale</i> , 2020, 12, 20564-20579.	2.8	12
100	Substrate oxygen sponge effect: A parameter for epitaxial manganite thin film growth. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	10
101	Self-organization of various phase-separated nanostructures in a single chemical vapor deposition. <i>Nano Research</i> , 2020, 13, 1723-1732.	5.8	3
102	Negative-pressure enhanced ferroelectricity and piezoelectricity in lead-free BaTiO_3 ferroelectric nanocomposite films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8091-8097.	2.7	11
103	Nanoengineering room temperature ferroelectricity into orthorhombic SmMnO_3 films. <i>Nature Communications</i> , 2020, 11, 2207.	5.8	17
104	Spontaneous Ordering of Oxide-Oxide Epitaxial Vertically Aligned Nanocomposite Thin Films. <i>Annual Review of Materials Research</i> , 2020, 50, 229-253.	4.3	22
105	Engineering lithium-ion battery cathodes for high-voltage applications using electromagnetic excitation. <i>Journal of Materials Science</i> , 2020, 55, 12177-12190.	1.7	10
106	3D Hybrid Plasmonic Framework with Au Nanopillars Embedded in Nitride Multilayers Integrated on Si. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000493.	1.9	18
107	Laser-Induced Mesoporous Nickel Oxide as a Highly Sensitive Nonenzymatic Glucose Sensor. <i>ACS Applied Nano Materials</i> , 2020, 3, 5260-5270.	2.4	46
108	Vertically aligned nanocomposite (BaTiO_3) $_{0.8}$ - $(\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3)$ $_{0.2}$ thin films with anisotropic multifunctionalities. <i>Nanoscale Advances</i> , 2020, 2, 3276-3283.		

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109	Dynamic tuning of dielectric permittivity in BaTiO ₃ via electrical biasing. Materials Research Letters, 2020, 8, 321-327.	4.1	5
110	Preparative Mass Spectrometry Using a Rotating-Wall Mass Analyzer. Angewandte Chemie, 2020, 132, 7785-7790.	1.6	1
111	Rapid Upcycling of Waste Polyethylene Terephthalate to Energy Storing Disodium Terephthalate Flowers with DFT Calculations. ACS Sustainable Chemistry and Engineering, 2020, 8, 6252-6262.	3.2	43
112	Perovskite Transparent Conducting Oxide for the Design of a Transparent, Flexible, and Self-Powered Perovskite Photodetector. ACS Applied Materials & Interfaces, 2020, 12, 16462-16468.	4.0	52
113	Preparative Mass Spectrometry Using a Rotating-Wall Mass Analyzer. Angewandte Chemie - International Edition, 2020, 59, 7711-7716.	7.2	11
114	Novel layered Bi ₃ MoM _T O ₉ (M _T = Mn, Fe, Co and Ni) thin films with tunable multifunctionalities. Nanoscale, 2020, 12, 5914-5921.	2.8	11
115	Large-Scale Plasmonic Hybrid Framework with Built-In Nanohole Array as Multifunctional Optical Sensing Platforms. Small, 2020, 16, 1906459.	5.2	11
116	Strain-Driven In-plane Ordering in Vertically Aligned ZnO-Au Nanocomposites with Highly Correlated Metamaterial Properties. ACS Omega, 2020, 5, 2234-2241.	1.6	30
117	Vertical Strain-Driven Antiferromagnetic to Ferromagnetic Phase Transition in EuTiO ₃ Nanocomposite Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 8513-8521.	4.0	14
118	Thermally Stable Au-BaTiO ₃ Nanoscale Hybrid Metamaterial for High-Temperature Plasmonic Applications. ACS Applied Nano Materials, 2020, 3, 1431-1437.	2.4	15
119	Room-Temperature Ferroelectric LiNb ₆ Ba ₅ Ti ₄ O ₃₀ Spinel Phase in a Nanocomposite Thin Film Form for Nonlinear Photonics. ACS Applied Materials & Interfaces, 2020, 12, 23076-23083.	4.0	6
120	Vertically Aligned Ag _x Au _{1-x} Alloyed Nanopillars Embedded in ZnO as Nanoengineered Low-Loss Hybrid Plasmonic Metamaterials. Nano Letters, 2020, 20, 3778-3785.	4.5	20
121	Role of Interlayer in 3D Vertically Aligned Nanocomposite Frameworks with Tunable Magnetotransport Properties. Advanced Materials Interfaces, 2020, 7, 1901990.	1.9	7
122	Advanced Thin Film Cathodes for Lithium Ion Batteries. Research, 2020, 2020, 2969510.	2.8	22
123	Controllable conduction and hidden phase transitions revealed via vertical strain. Applied Physics Letters, 2019, 114, 252901.	1.5	5
124	Tunable low-field magnetoresistance properties in (La _{0.7} Ca _{0.3} MnO ₃) _{1-x} (CeO ₂) _x vertically aligned nanocomposite thin films. Applied Physics Letters, 2019, 115, 053103.	1.5	15
125	Two-Phase Room-Temperature Multiferroic Nanocomposite with BiMnO ₃ -Tilted Nanopillars in the Bi ₂ W _{1-x} Mn _x O ₆ Matrix. ACS Applied Materials & Interfaces, 2019, 11, 26261-26267.	4.0	9
126	Broad Range Tuning of Phase Transition Property in VO ₂ Through Metal-Ceramic Nanocomposite Design. Advanced Functional Materials, 2019, 29, 1903690.	7.8	26

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127	Dual Beam In Situ Radiation Studies of Nanocrystalline Cu. <i>Materials</i> , 2019, 12, 2721.	1.3	13
128	Interfacial Engineering Enabled Novel Bi-Based Layered Oxide Supercells with Modulated Microstructures and Tunable Physical Properties. <i>Crystal Growth and Design</i> , 2019, 19, 7088-7095.	1.4	6
129	Integration of Hybrid Plasmonic Au@BaTiO ₃ Metamaterial on Silicon Substrates. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45199-45206.	4.0	25
130	Defect-Mediated Anisotropic Lattice Expansion in Ceramics as Evidence for Nonthermal Coupling between Electromagnetic Fields and Matter. <i>Advanced Engineering Materials</i> , 2019, 21, 1900762.	1.6	6
131	High strength, deformable nanotwinned Al-Co alloys. <i>Materials Research Letters</i> , 2019, 7, 33-39.	4.1	32
132	Nanoscale stacking fault-assisted room temperature plasticity in flash-sintered TiO ₂ . <i>Science Advances</i> , 2019, 5, eaaw5519.	4.7	82
133	Hybrid plasmonic Au-TiN vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. <i>Nanoscale Advances</i> , 2019, 1, 1045-1054.	2.2	37
134	Strategies to tailor serrated flows in metallic glasses. <i>Journal of Materials Research</i> , 2019, 34, 1595-1607.	1.2	7
135	Comparison Study of the Flux Pinning Enhancement of YBa ₂ Cu ₃ O _{7-δ} Thin Films With BaHfO ₃ + Y ₂ O ₃ Single- and Mixed-Phase Additions. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	7
136	AlN-based hybrid thin films with self-assembled plasmonic Au and Ag nano-inclusions. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	6
137	Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. <i>Applied Materials Today</i> , 2019, 16, 204-212.	2.3	30
138	Multiferroic vertically aligned nanocomposite with CoFe ₂ O ₄ nanocones embedded in layered Bi ₂ WO ₆ matrix. <i>Materials Research Letters</i> , 2019, 7, 418-425.	4.1	14
139	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. <i>Advanced Materials</i> , 2019, 31, e1902492.	11.1	75
140	Superconducting Iron Chalcogenide Thin Films Integrated on Flexible Mica Substrates. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-4.	1.1	8
141	Li ₂ MnO ₃ Thin Films with Tilted Domain Structure as Cathode for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 3461-3468.	2.5	11
142	3D strain-induced superconductivity in La ₂ CuO _{4-δ} using a simple vertically aligned nanocomposite approach. <i>Science Advances</i> , 2019, 5, eaav5532.	4.7	31
143	Pinning Efficiency of One-Dimensional Artificial Pinning Centers in YBa ₂ Cu ₃ O _{7-x} Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	5
144	An in situ study on Kr ion-irradiated crystalline Cu/amorphous-CuNb nanolaminates. <i>Journal of Materials Research</i> , 2019, 34, 2218-2228.	1.2	14

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145	Strain Enhanced Functionality in a Bottom-Up Approach Enabled 3D Super-Nanocomposites. <i>Advanced Functional Materials</i> , 2019, 29, 1900442.	7.8	17
146	Study of deformation mechanisms in flash-sintered yttria-stabilized zirconia by <i>in-situ</i> micromechanical testing at elevated temperatures. <i>Materials Research Letters</i> , 2019, 7, 194-202.	4.1	25
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