

Di Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

273
papers

7,563
citations

40
h-index

77
g-index

282
ext. papers

9,211
ext. citations

7.9
avg, IF

6.17
L-index

#	Paper	IF	Citations
273	Thermal Safety Analysis of Disordered Li-Rich Rock salt Li _{1.3} Mn _{0.4} Nb _{0.3} O ₂ Cathode. <i>ACS Applied Energy Materials</i> , 2022 , 5, 516-523	6.1	
272	Enabling coherent BaZrO ₃ nanorods/YBa ₂ Cu ₃ O ₇ δ interface through dynamic lattice enlargement in vertical epitaxy of BaZrO ₃ /YBa ₂ Cu ₃ O ₇ δ nanocomposites. <i>Superconductor Science and Technology</i> , 2022 , 35, 034001	3.1	3
271	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 , e2105009	11	0
270	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, 010802	2.9	2
269	High stability of flexible perovskite transparent conductive oxide film via van der Waals heteroepitaxy. <i>Journal of Alloys and Compounds</i> , 2022 , 890, 161897	5.7	4
268	Scaled indium oxide transistors fabricated using atomic layer deposition. <i>Nature Electronics</i> , 2022 , 5, 164-170	28.4	14
267	Laser-Assisted Nanotexturing and Silver Immobilization on Titanium Implant Surfaces to Enhance Bone Cell Mineralization and Antimicrobial Properties.. <i>Langmuir</i> , 2022 ,	4	1
266	Epitaxial (110)-oriented La _{0.7} Sr _{0.3} MnO ₃ film directly on flexible mica substrate. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 224002	3	1
265	ZnO-AuCu Alloy and ZnO-AuAl Alloy Vertically Aligned Nanocomposites for Low-Loss Plasmonic Metamaterials.. <i>Molecules</i> , 2022 , 27,	4.8	1
264	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	7.4	0
263	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	8.4	
262	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	3.5	0
261	Emergent multiferroism with magnetodielectric coupling in EuTiO created by a negative pressure control of strong spin-phonon coupling.. <i>Nature Communications</i> , 2022 , 13, 2364	17.4	3
260	Optical dielectric properties of HfO ₂ -based films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 033412	2.9	1
259	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, 202104	3.4	1
258	Core-shell metallic alloy nanopillars-in-dielectric hybrid metamaterials with magneto-plasmonic coupling. <i>Materials Today</i> , 2021 ,	21.8	2
257	Double-Exchange Bias Modulation under Horizontal and Perpendicular Field Directions by 3D Nanocomposite Design. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50141-50148	9.5	2

256	Why InO Can Make 0.7 nm Atomic Layer Thin Transistors. <i>Nano Letters</i> , 2021 , 21, 500-506	11.5	39
255	Self-Assembled MetalDielectric Hybrid Metamaterials in Vertically Aligned Nanocomposite Form with Tailorable Optical Properties and Coupled Multifunctionalities. <i>Advanced Photonics Research</i> , 2021 , 2, 2000174	1.9	4
254	Nanocomposite-Seeded Epitaxial Growth of Single-Domain Lithium Niobate Thin Films for Surface Acoustic Wave Devices. <i>Advanced Photonics Research</i> , 2021 , 2, 2000149	1.9	4
253	Electrochromic Properties of Perovskite NdNiO ₃ Thin Films for Smart Windows. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1719-1731	4	1
252	Ferroelectric/multiferroic self-assembled vertically aligned nanocomposites: Current and future status. <i>APL Materials</i> , 2021 , 9, 030904	5.7	3
251	Ultrathin epitaxial NbN superconducting films with high upper critical field grown at low temperature. <i>Materials Research Letters</i> , 2021 , 9, 336-342	7.4	3
250	Flash sintering of additively manufactured 3YSZ gears. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3828-3832	3.8	3
249	Bioinspired Dynamic Camouflage from Colloidal Nanocrystals Embedded Electrochromics. <i>Nano Letters</i> , 2021 , 21, 4500-4507	11.5	4
248	Origin of High Interfacial Resistance in Solid-State Batteries: LLTO/LCO Half-Cells**. <i>ChemElectroChem</i> , 2021 , 8, 1847-1857	4.3	1
247	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. <i>Ceramics International</i> , 2021 , 47, 13156-13163	5.1	6
246	Ultra-high heating rate effects on the sintering of ceramic nanoparticles: an in situ TEM study. <i>Materials Research Letters</i> , 2021 , 9, 373-381	7.4	2
245	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectricantiferromagneticferrimagnetic nanocomposites. <i>Nature Electronics</i> , 2021 , 4, 333-341	28.4	8
244	Recent Advances in Vertically Aligned Nanocomposites with Tunable Optical Anisotropy: Fundamentals and Beyond. <i>Chemosensors</i> , 2021 , 9, 145	4	1
243	High-strength nanocrystalline intermetallics with room temperature deformability enabled by nanometer thick grain boundaries. <i>Science Advances</i> , 2021 , 7,	14.3	2
242	Design of 3D OxideMetal Hybrid Metamaterial for Tailorable LightMatter Interactions in Visible and Near-Infrared Region. <i>Advanced Optical Materials</i> , 2021 , 9, 2001154	8.1	7
241	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie</i> , 2021 , 133, 2661-2668	3.6	1
240	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2629-2636	16.4	12
239	Epitaxial TiN/MgO multilayers with ultrathin TiN and MgO layers as hyperbolic metamaterials in visible region. <i>Materials Today Physics</i> , 2021 , 16, 100316	8	4

238	Engineered heat dissipation and current distribution boron nitride-graphene layer coated on polypropylene separator for high performance lithium metal battery. <i>Journal of Colloid and Interface Science</i> , 2021 , 583, 362-370	9.3	15
237	Review on the growth, properties and applications of self-assembled oxide-metal vertically aligned nanocomposite thin films-current and future perspectives. <i>Materials Horizons</i> , 2021 , 8, 869-884	14.4	6
236	Making g-C ₃ N ₄ ultra-thin nanosheets active for photocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119557	21.8	41
235	Nitride-Oxide-Metal Heterostructure with Self-Assembled Core-Shell Nanopillar Arrays: Effect of Ordering on Magneto-Optical Properties. <i>Small</i> , 2021 , 17, e2007222	11	6
234	Self-Assembled BaTiO ₃ -AuAg Low-Loss Hybrid Plasmonic Metamaterials with an Ordered "Nano-Domino-like" Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5390-5398	9.5	3
233	Route to High-Performance Micro-solid Oxide Fuel Cells on Metallic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4117-4125	9.5	5
232	High performance, electroforming-free, thin film memristors using ionic Na _{0.5} Bi _{0.5} TiO ₃ . <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4522-4531	7.1	4
231	Deposition pressure-induced microstructure control and plasmonic property tuning in hybrid ZnO _{1-x} Ag _x Au _{1-y} thin films. <i>Nanoscale Advances</i> , 2021 , 3, 2870-2878	5.1	3
230	Electrical properties and charge compensation mechanisms of Cr-doped rutile, TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 22133-22146	3.6	1
229	Tailorable multifunctionalities in ultrathin 2D Bi-based layered supercell structures. <i>Nanoscale</i> , 2021 , 13, 16672-16679	7.7	1
228	Role of ALD AlO ₃ Surface Passivation on the Performance of p-Type CuO Thin Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4156-4164	9.5	15
227	Multifunctional Metal-Oxide Nanocomposite Thin Film with Plasmonic Au Nanopillars Embedded in Magnetic LaSrMnO Matrix. <i>Nano Letters</i> , 2021 , 21, 1032-1039	11.5	13
226	Defects in flash-sintered ceramics and their effects on mechanical properties. <i>MRS Bulletin</i> , 2021 , 46, 44-51	3.2	9
225	Thermal Stability of Nanocrystalline Gradient Inconel 718 Alloy. <i>Crystals</i> , 2021 , 11, 53	2.3	0
224	Carbon Nanotube Supported Amorphous MoS ₂ via Microwave Heating Synthesis for Enhanced Performance of Hydrogen Evolution Reaction. <i>Energy Material Advances</i> , 2021 , 2021, 1-8	1	4
223	Creating Ferromagnetic Insulating LaBaMnO Thin Films by Tuning Lateral Coherence Length. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8863-8870	9.5	1
222	Strong pinning at high growth rates in rare earth barium cuprate (REBCO) superconductor films grown with liquid-assisted processing (LAP) during pulsed laser deposition. <i>Superconductor Science and Technology</i> , 2021 , 34, 045012	3.1	2
221	High Strength and Low Coercivity of Cobalt with Three-Dimensional Nanoscale Stacking Faults. <i>Nano Letters</i> , 2021 , 21, 6480-6486	11.5	2

220	Highly Conductive Copper/Silver Bimodal Paste for Low-Cost Printed Electronics. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3352-3364	4	7
219	Ordered hybrid metamaterial of La _{0.7} Sr _{0.3} MnO ₃ /Au vertically aligned nanocomposites achieved on templated SrTiO ₃ substrate. <i>Materials Today Nano</i> , 2021 , 15, 100121	9.7	1
218	Strong Interfacial Coupling of Tunable Ni-NiO Nanocomposite Thin Films Formed by Self-Decomposition. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39730-39737	9.5	2
217	High-Temperature and Flexible Piezoelectric Sensors for Lamb-Wave-Based Structural Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47764-47772	9.5	3
216	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. <i>Superconductor Science and Technology</i> , 2021 , 34, 104002	3.1	5
215	Linking far-from-equilibrium defect structures in ceramics to electromagnetic driving forces. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8425-8434	13	0
214	Hybrid Ag/LiNbO ₃ nanocomposite thin films with tailorable optical properties. <i>Nanoscale Advances</i> , 2021 , 3, 1121-1126	5.1	0
213	Substrate oxygen sponge effect: A parameter for epitaxial manganite thin film growth. <i>Applied Physics Letters</i> , 2020 , 117, 151601	3.4	5
212	Self-organization of various phase-separated nanostructures in a single chemical vapor deposition. <i>Nano Research</i> , 2020 , 13, 1723-1732	10	1
211	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	7.1	9
210	Nanoengineering room temperature ferroelectricity into orthorhombic SmMnO films. <i>Nature Communications</i> , 2020 , 11, 2207	17.4	8
209	Spontaneous Ordering of Oxide-Oxide Epitaxial Vertically Aligned Nanocomposite Thin Films. <i>Annual Review of Materials Research</i> , 2020 , 50, 229-253	12.8	14
208	Engineering lithium-ion battery cathodes for high-voltage applications using electromagnetic excitation. <i>Journal of Materials Science</i> , 2020 , 55, 12177-12190	4.3	8
207	3D Hybrid Plasmonic Framework with Au Nanopillars Embedded in Nitride Multilayers Integrated on Si. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000493	4.6	11
206	Laser-Induced Mesoporous Nickel Oxide as a Highly Sensitive Nonenzymatic Glucose Sensor. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5260-5270	5.6	23
205	Vertically aligned nanocomposite (BaTiO ₃) _{0.8} : (La _{0.7} Sr _{0.3} MnO ₃) _{0.2} thin films with anisotropic multifunctionalities. <i>Nanoscale Advances</i> , 2020 , 2, 3276-3283	5.1	10
204	Dynamic tuning of dielectric permittivity in BaTiO ₃ via electrical biasing. <i>Materials Research Letters</i> , 2020 , 8, 321-327	7.4	2
203	Preparative Mass Spectrometry Using a Rotating-Wall Mass Analyzer. <i>Angewandte Chemie</i> , 2020 , 132, 7785-7790	3.6	0

202	Rapid Upcycling of Waste Polyethylene Terephthalate to Energy Storing Disodium Terephthalate Flowers with DFT Calculations. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6252-6262	8.3	17
201	Perovskite Transparent Conducting Oxide for the Design of a Transparent, Flexible, and Self-Powered Perovskite Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16462-16468	9.5	24
200	Preparative Mass Spectrometry Using a Rotating-Wall Mass Analyzer. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7711-7716	16.4	4
199	Novel layered BiMoMO (M = Mn, Fe, Co and Ni) thin films with tunable multifunctionalities. <i>Nanoscale</i> , 2020 , 12, 5914-5921	7.7	8
198	Large-Scale Plasmonic Hybrid Framework with Built-In Nanohole Array as Multifunctional Optical Sensing Platforms. <i>Small</i> , 2020 , 16, e1906459	11	8
197	Strain-Driven In-plane Ordering in Vertically Aligned ZnO-Au Nanocomposites with Highly Correlated Metamaterial Properties. <i>ACS Omega</i> , 2020 , 5, 2234-2241	3.9	23
196	Vertical Strain-Driven Antiferromagnetic to Ferromagnetic Phase Transition in EuTiO Nanocomposite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8513-8521	9.5	7
195	Thermally Stable AuBaTiO ₃ Nanoscale Hybrid Metamaterial for High-Temperature Plasmonic Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1431-1437	5.6	9
194	Room-Temperature Ferroelectric LiNbBaTiO Spinel Phase in a Nanocomposite Thin Film Form for Nonlinear Photonics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23076-23083	9.5	6
193	Vertically Aligned AgAu Alloyed Nanopillars Embedded in ZnO as Nanoengineered Low-Loss Hybrid Plasmonic Metamaterials. <i>Nano Letters</i> , 2020 , 20, 3778-3785	11.5	13
192	Role of Interlayer in 3D Vertically Aligned Nanocomposite Frameworks with Tunable Magnetotransport Properties. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901990	4.6	6
191	Advanced Thin Film Cathodes for Lithium Ion Batteries. <i>Research</i> , 2020 , 2020, 2969510	7.8	15
190	Interface Engineered Room-Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. <i>Advanced Science</i> , 2020 , 7, 1901606	13.6	15
189	Titanium Nitride Modified Photoluminescence from Single Semiconductor Nanoplatelets. <i>Advanced Functional Materials</i> , 2020 , 30, 1904179	15.6	4
188	Tunable physical properties in BiAl _{1-x} MnxO ₃ thin films with novel layered supercell structures. <i>Nanoscale Advances</i> , 2020 , 2, 315-322	5.1	6
187	Enhancing electrochemical performance of thin film lithium ion battery via introducing tilted metal nanopillars as effective current collectors. <i>Nano Energy</i> , 2020 , 69, 104381	17.1	13
186	Tunable Optical Properties in Self-Assembled Oxide-Metal Hybrid Thin Films via Au-Phase Geometry Control: From Nanopillars to Nanodisks. <i>Advanced Optical Materials</i> , 2020 , 8, 1901359	8.1	16
185	Field-assisted heating of Gd-doped ceria thin film. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2309-2314	3.8	8

184	3D Hybrid Trilayer Heterostructure: Tunable Au Nanorods and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45015-45022	9.5	3
183	Electrochemical removal of anodic aluminium oxide templates for the production of phase-pure cuprous oxide nanorods for antimicrobial surfaces. <i>Electrochemistry Communications</i> , 2020 , 120, 106833	5.1	1
182	Strain Effects on the Growth of LaSrMnO (LSMO)-NiO Nanocomposite Thin Films via Substrate Control. <i>ACS Omega</i> , 2020 , 5, 23793-23798	3.9	0
181	Real-time in situ optical tracking of oxygen vacancy migration in memristors. <i>Nature Electronics</i> , 2020 , 3, 687-693	28.4	16
180	Ultrafast, dry microwave superheating for the synthesis of an SbO-GNP hybrid anode to investigate the Na-ion storage compatibility in ester and ether electrolytes. <i>Chemical Communications</i> , 2020 , 56, 9663-9666	5.8	3
179	Thermal stability of self-assembled ordered three-phase Au-BaTiO ₃ -ZnO nanocomposite thin films heating in TEM. <i>Nanoscale</i> , 2020 , 12, 23673-23681	7.7	3
178	Effective doping control in Sm-doped BiFeO ₃ thin films deposition temperature.. <i>RSC Advances</i> , 2020 , 10, 40229-40233	3.7	2
177	Au-Encapsulated Fe Nanorods in Oxide Matrix with Tunable Magneto-Optic Coupling Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51827-51836	9.5	6
176	Morphology Control of Self-Assembled Three-Phase Au-BaTiO ₃ -ZnO Hybrid Metamaterial for Tunable Optical Properties. <i>Crystal Growth and Design</i> , 2020 , 20, 6101-6108	3.5	10
175	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. <i>Nano Letters</i> , 2020 , 20, 6614-6622	11.5	17
174	Atomic-Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Long-Range Tuning of BO ₆ Octahedra. <i>Advanced Functional Materials</i> , 2020 , 30, 2001984	15.6	5
173	Exchange Bias in a LaSrMnO ₃ /NiO Heterointerface Integrated on a Flexible Mica Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39920-39925	9.5	19
172	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. <i>Advanced Functional Materials</i> , 2020 , 30, 2000664	15.6	18
171	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	6.6	6
170	Anisotropic domains and antiferrodistortive-transition controlled magnetization in epitaxial manganite films on vicinal SrTiO ₃ substrates. <i>Applied Physics Letters</i> , 2020 , 117, 081903	3.4	3
169	Ceramic Material Processing Towards Future Space Habitat: Electric Current-Assisted Sintering of Lunar Regolith Simulant. <i>Materials</i> , 2020 , 13,	3.5	1
168	Integration of highly anisotropic multiferroic BaTiO ₃ -Fe nanocomposite thin films on Si towards device applications. <i>Nanoscale Advances</i> , 2020 , 2, 4172-4178	5.1	6
167	Bidirectional tuning of phase transition properties in Pt : VO nanocomposite thin films. <i>Nanoscale</i> , 2020 , 12, 17886-17894	7.7	3

166	Flash sintering incubation kinetics. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	13
165	Self-assembled nitride-metal nanocomposites: recent progress and future prospects. <i>Nanoscale</i> , 2020 , 12, 20564-20579	7.7	5
164	High strength, deformable nanotwinned AlCo alloys. <i>Materials Research Letters</i> , 2019 , 7, 33-39	7.4	22
163	Nanoscale stacking fault-assisted room temperature plasticity in flash-sintered TiO. <i>Science Advances</i> , 2019 , 5, eaaw5519	14.3	35
162	Hybrid plasmonic AuTiN vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. <i>Nanoscale Advances</i> , 2019 , 1, 1045-1054	5.1	28
161	Strategies to tailor serrated flows in metallic glasses. <i>Journal of Materials Research</i> , 2019 , 34, 1595-1607	2.5	5
160	Comparison Study of the Flux Pinning Enhancement of YBa ₂ Cu ₃ O _{7-x} 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	1.8	4
159	AlN-based hybrid thin films with self-assembled plasmonic Au and Ag nano-inclusions. <i>Applied Physics Letters</i> , 2019 , 114, 023103	3.4	5
158	Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. <i>Applied Materials Today</i> , 2019 , 16, 204-212	6.6	17
157	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	7.4	10
156	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. <i>Advanced Materials</i> , 2019 , 31, e1902492	24	48
155	Superconducting Iron Chalcogenide Thin Films Integrated on Flexible Mica Substrates. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-4	1.8	6
154	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	6.1	8
153	3D strain-induced superconductivity in LaCuO using a simple vertically aligned nanocomposite approach. <i>Science Advances</i> , 2019 , 5, eaav5532	14.3	22
152	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	1.8	4
151	An in situ study on Kr ion-irradiated crystalline Cu/amorphous-CuNb nanolaminates. <i>Journal of Materials Research</i> , 2019 , 34, 2218-2228	2.5	9
150	Strain Enhanced Functionality in a Bottom-Up Approach Enabled 3D Super-Nanocomposites. <i>Advanced Functional Materials</i> , 2019 , 29, 1900442	15.6	14
149	Study of deformation mechanisms in flash-sintered yttria-stabilized zirconia by in-situ micromechanical testing at elevated temperatures. <i>Materials Research Letters</i> , 2019 , 7, 194-202	7.4	12

148	Controllable conduction and hidden phase transitions revealed via vertical strain. <i>Applied Physics Letters</i> , 2019 , 114, 252901	3.4	5
147	Tunable low-field magnetoresistance properties in $(\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3)_{1-x}(\text{CeO}_2)_x$ vertically aligned nanocomposite thin films. <i>Applied Physics Letters</i> , 2019 , 115, 053103	3.4	11
146	Two-Phase Room-Temperature Multiferroic Nanocomposite with BiMnO-Tilted Nanopillars in the BiWMnO Matrix. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26261-26267	9.5	8
145	Broad Range Tuning of Phase Transition Property in VO ₂ Through Metal-Ceramic Nanocomposite Design. <i>Advanced Functional Materials</i> , 2019 , 29, 1903690	15.6	16
144	Dual Beam In Situ Radiation Studies of Nanocrystalline Cu. <i>Materials</i> , 2019 , 12,	3.5	7
143	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	3.5	4
142	Integration of Hybrid Plasmonic Au-BaTiO Metamaterial on Silicon Substrates. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45199-45206	9.5	19
141	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	3.5	4
140	Breaking Lattice Symmetry in Highly Strained Epitaxial VO Films on Faceted Nanosurface. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44905-44912	9.5	3
139	Solar-Blind UV Photodetector Based on Atomic Layer-Deposited CuO and Nanomembrane E _g GaO pn Oxide Heterojunction. <i>ACS Omega</i> , 2019 , 4, 20756-20761	3.9	19
138	Tuning magnetic anisotropy in CoBaZrO ₃ vertically aligned nanocomposites for memory device integration. <i>Nanoscale Advances</i> , 2019 , 1, 4450-4458	5.1	12
137	The effects of external fields in ceramic sintering. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5-31	3.8	27
136	Self-Assembled Ordered Three-Phase Au-BaTiO ₃ -ZnO Vertically Aligned Nanocomposites Achieved by a Templating Method. <i>Advanced Materials</i> , 2019 , 31, e1806529	24	42
135	Self-Assembled Ag ₃ N Hybrid Plasmonic Metamaterial: Tailorable Tilted Nanopillar and Optical Properties. <i>Advanced Optical Materials</i> , 2019 , 7, 1801180	8.1	26
134	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. <i>Materials Horizons</i> , 2018 , 5, 536-544	14.4	44
133	Use of Mesoscopic Host Matrix to Induce Ferrimagnetism in Antiferromagnetic Spinel Oxide. <i>Advanced Functional Materials</i> , 2018 , 28, 1706220	15.6	9
132	LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ /Au nanocomposite thin film cathode with enhanced electrochemical properties. <i>Nano Energy</i> , 2018 , 46, 290-296	17.1	22
131	Microscopic adaptation of BaHfO ₃ and Y ₂ O ₃ artificial pinning centers for strong and isotropic pinning landscape in YBa ₂ Cu ₃ O _{7-x} thin films. <i>Superconductor Science and Technology</i> , 2018 , 31, 025008	3.1	17

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