

Di Zhang

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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	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. <i>Nature</i> , 2018 , 562, 245-248	50.4	1802
272	Strain control and spontaneous phase ordering in vertical nanocomposite heteroepitaxial thin films. <i>Nature Materials</i> , 2008 , 7, 314-20	27	297
271	Thick lead-free ferroelectric films with high Curie temperatures through nanocomposite-induced strain. <i>Nature Nanotechnology</i> , 2011 , 6, 491-5	28.7	191
270	Tunable Low-Field Magnetoresistance in (La _{0.7} Sr _{0.3} MnO ₃) _{0.5} :(ZnO) _{0.5} Self-Assembled Vertically Aligned Nanocomposite Thin Films. <i>Advanced Functional Materials</i> , 2011 , 21, 2423-2429	15.6	158
269	Structural, electrical, and terahertz transmission properties of VO ₂ thin films grown on c-, r-, and m-plane sapphire substrates. <i>Journal of Applied Physics</i> , 2012 , 111, 053533	2.5	142
268	Microstructure, vertical strain control and tunable functionalities in self-assembled, vertically aligned nanocomposite thin films. <i>Acta Materialia</i> , 2013 , 61, 2783-2792	8.4	132
267	Controlled Growth of a Large-Size 2D Selenium Nanosheet and Its Electronic and Optoelectronic Applications. <i>ACS Nano</i> , 2017 , 11, 10222-10229	16.7	128
266	Dielectric relaxation, resonance and scaling behaviors in Sr ₃ Co ₂ Fe ₂₄ O ₄₁ hexaferrite. <i>Scientific Reports</i> , 2015 , 5, 13645	4.9	119
265	Strongly enhanced oxygen ion transport through samarium-doped CeO ₂ nanopillars in nanocomposite films. <i>Nature Communications</i> , 2015 , 6, 8588	17.4	116
264	Interfacial coupling in heteroepitaxial vertically aligned nanocomposite thin films: From lateral to vertical control. <i>Current Opinion in Solid State and Materials Science</i> , 2014 , 18, 6-18	12	87
263	Vertical Interface Effect on the Physical Properties of Self-Assembled Nanocomposite Epitaxial Films. <i>Advanced Materials</i> , 2009 , 21, 3794-3798	24	82
262	Self-Assembled Epitaxial Au-Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. <i>Nano Letters</i> , 2016 , 16, 3936-43	11.5	75
261	Ionic Conductivity Increased by Two Orders of Magnitude in Micrometer-Thick Vertical Yttria-Stabilized ZrO ₂ Nanocomposite Films. <i>Nano Letters</i> , 2015 , 15, 7362-9	11.5	73
260	High power density thin film SOFCs with YSZ/GDC bilayer electrolyte. <i>Electrochimica Acta</i> , 2011 , 56, 5472-5477	6.7	71
259	Role of scaffold network in controlling strain and functionalities of nanocomposite films. <i>Science Advances</i> , 2016 , 2, e1600245	14.3	70
258	New epitaxy paradigm in epitaxial self-assembled oxide vertically aligned nanocomposite thin films. <i>Journal of Materials Research</i> , 2017 , 32, 4054-4066	2.5	68
257	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. <i>Nature Communications</i> , 2016 , 7, 12373	17.4	67

256	A new class of room-temperature multiferroic thin films with bismuth-based supercell structure. <i>Advanced Materials</i> , 2013 , 25, 1028-32	24	66
255	Continuous Tuning of Phase Transition Temperature in VO Thin Films on c-Cut Sapphire Substrates via Strain Variation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5319-5327	9.5	62
254	Novel electroforming-free nanoscaffold memristor with very high uniformity, tunability, and density. <i>Advanced Materials</i> , 2014 , 26, 6284-9	24	62
253	Multifunctional, self-assembled oxide nanocomposite thin films and devices. <i>MRS Bulletin</i> , 2015 , 40, 736-745	3.45	62
252	High-Strength Nanotwinned Al Alloys with 9R Phase. <i>Advanced Materials</i> , 2018 , 30, 1704629	24	60
251	Microstructure, magnetic, and low-field magnetotransport properties of self-assembled (La _{0.7} Sr _{0.3} MnO ₃) _{0.5} :(CeO ₂) _{0.5} vertically aligned nanocomposite thin films. <i>Nanotechnology</i> , 2011 , 22, 315712	3.4	59
250	High temperature deformability of ductile flash-sintered ceramics via in-situ compression. <i>Nature Communications</i> , 2018 , 9, 2063	17.4	56
249	Self-assembled Co-BaZrO nanocomposite thin films with ultra-fine vertically aligned Co nanopillars. <i>Nanoscale</i> , 2017 , 9, 7970-7976	7.7	54
248	Integration of self-assembled vertically aligned nanocomposite (La _{0.7} Sr _{0.3} MnO ₃) _(1-x) :(ZnO) _x thin films on silicon substrates. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3995-9	9.5	51
247	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. <i>Advanced Materials</i> , 2019 , 31, e1902492	24	48
246	Vertically aligned nanocomposite electrolytes with superior out-of-plane ionic conductivity for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2013 , 242, 455-463	8.9	47
245	High-speed atmospheric atomic layer deposition of ultra thin amorphous TiO ₂ blocking layers at 100 °C for inverted bulk heterojunction solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2013 , 21, 393-400	6.8	45
244	Multifunctional LaSrMnO (LSMO) Thin Films Integrated on Mica Substrates toward Flexible Spintronics and Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42698-42705	9.5	45
243	Promoting effect of cyano groups attached on g-C ₃ N ₄ nanosheets towards molecular oxygen activation for visible light-driven aerobic coupling of amines to imines. <i>Journal of Catalysis</i> , 2018 , 366, 237-244	7.3	45
242	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
241	Nanoscale Artificial Plasmonic Lattice in Self-Assembled Vertically Aligned Nitride-Metal Hybrid Metamaterials. <i>Advanced Science</i> , 2018 , 5, 1800416	13.6	44
240	Ultra-smooth glassy graphene thin films for flexible transparent circuits. <i>Science Advances</i> , 2016 , 2, e1601574	15.34	43
239	Strong room temperature exchange bias in self-assembled BiFeO ₃ /Fe ₃ O ₄ nanocomposite heteroepitaxial films. <i>Applied Physics Letters</i> , 2013 , 102, 012905	3.4	42

238	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO ₃ :CoFe ₂ O ₄ vertically aligned nanocomposite thin films. <i>Applied Physics Letters</i> , 2014 , 104, 062402	3.4	42
237	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
236	Strain Tuning and Strong Enhancement of Ionic Conductivity in SrZrO ₃ /RE ₂ O ₃ (RE = Sm, Eu, Gd, Dy, and Er) Nanocomposite Films. <i>Advanced Functional Materials</i> , 2015 , 25, 4328-4333	15.6	41
235	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
234	Precise Tuning of (YBa ₂ Cu ₃ O _{7-δ}) _{1-x} (BaZrO ₃) _x Thin Film Nanocomposite Structures. <i>Advanced Functional Materials</i> , 2014 , 24, 5240-5245	15.6	40
233	Sharp semiconductor-to-metal transition of VO ₂ thin films on glass substrates. <i>Journal of Applied Physics</i> , 2013 , 114, 244301	2.5	40
232	Microstructural and magnetic properties of (La _{0.7} Sr _{0.3} MnO ₃) _{0.7} :(Mn ₃ O ₄) _{0.3} nanocomposite thin films. <i>Journal of Applied Physics</i> , 2011 , 109, 054302	2.5	40
231	Why InO Can Make 0.7 nm Atomic Layer Thin Transistors. <i>Nano Letters</i> , 2021 , 21, 500-506	11.5	39
230	Ferroelectric properties of vertically aligned nanostructured BaTiO ₃ -CeO ₂ thin films and their integration on silicon. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12541-7	9.5	38
229	Resonance Raman spectroscopy of G-line and folded phonons in twisted bilayer graphene with large rotation angles. <i>Applied Physics Letters</i> , 2013 , 103, 123101	3.4	38
228	Strong perpendicular exchange bias in epitaxial La _{0.7} Sr _{0.3} MnO ₃ :BiFeO ₃ nanocomposite films through vertical interfacial coupling. <i>Nanoscale</i> , 2015 , 7, 13808-15	7.7	37
227	Perpendicular Exchange-Biased Magnetotransport at the Vertical Heterointerfaces in La _{0.7} Sr _{0.3} MnO ₃ :NiO Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21646-51	9.5	37
226	Very High Surface Area Mesoporous Thin Films of SrTiO ₃ Grown by Pulsed Laser Deposition and Application to Efficient Photoelectrochemical Water Splitting. <i>Nano Letters</i> , 2016 , 16, 7338-7345	11.5	37
225	Nanoscale stacking fault-assisted room temperature plasticity in flash-sintered TiO ₂ . <i>Science Advances</i> , 2019 , 5, eaaw5519	14.3	35
224	Roles of grain boundaries on the semiconductor to metal phase transition of VO ₂ thin films. <i>Applied Physics Letters</i> , 2015 , 107, 102105	3.4	34
223	New strain states and radical property tuning of metal oxides using a nanocomposite thin film approach. <i>APL Materials</i> , 2015 , 3, 062507	5.7	34
222	Tunable lattice strain in vertically aligned nanocomposite (BiFeO ₃) _x :(Sm ₂ O ₃) _{1-x} thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 094309	2.5	34
221	Room Temperature Ferrimagnetism and Ferroelectricity in Strained, Thin Films of BiFeMnO. <i>Advanced Functional Materials</i> , 2014 , 24, 7478-7487	15.6	33

220	Textured metastable VO ₂ (B) thin films on SrTiO ₃ substrates with significantly enhanced conductivity. <i>Applied Physics Letters</i> , 2014 , 104, 071909	3.4	33
219	Self-Assembled Magnetic Metallic Nanopillars in Ceramic Matrix with Anisotropic Magnetic and Electrical Transport Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20283-91	9.5	33
218	Self-assembled vertically aligned Ni nanopillars in CeO with anisotropic magnetic and transport properties for energy applications. <i>Nanoscale</i> , 2018 , 10, 17182-17188	7.7	31
217	Evolution of microstructure, strain and physical properties in oxide nanocomposite films. <i>Scientific Reports</i> , 2014 , 4, 5426	4.9	29
216	Tailorable Au Nanoparticles Embedded in Epitaxial TiO Thin Films for Tunable Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32895-32902	9.5	29
215	Self-Organized Epitaxial Vertically Aligned Nanocomposites with Long-Range Ordering Enabled by Substrate Nanotemplating. <i>Advanced Materials</i> , 2017 , 29, 1606861	24	28
214	Hybrid plasmonic Au@In vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. <i>Nanoscale Advances</i> , 2019 , 1, 1045-1054	5.1	28
213	The Role of Lattice Misfit on Heterogeneous Nucleation of Pure Aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 5012-5022	2.3	28
212	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. <i>Nature Communications</i> , 2017 , 8, 1653	17.4	28
211	A New Material for High-Temperature Lead-Free Actuators. <i>Advanced Functional Materials</i> , 2013 , 23, 5881-5886	15.6	28
210	In situ polymerization of ethylenedioxythiophene from sulfonated carbon nanotube templates: toward high efficiency ITO-free solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6645-6652	13	28
209	The effects of external fields in ceramic sintering. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5-31	3.8	27
208	Plastic deformation mechanisms and size effect of Cu ₅₀ Zr ₅₀ /Cu amorphous/crystalline nanolaminate: A molecular dynamics study. <i>Computational Materials Science</i> , 2017 , 129, 137-146	3.2	26
207	Exchange Bias Effect along Vertical Interfaces in La _{0.7} Sr _{0.3} MnO ₃ :NiO Vertically Aligned Nanocomposite Thin Films Integrated on Silicon Substrates. <i>Crystal Growth and Design</i> , 2018 , 18, 4388-4394	3.5	26
206	Self-Assembled Ag@In Hybrid Plasmonic Metamaterial: Tailorable Tilted Nanopillar and Optical Properties. <i>Advanced Optical Materials</i> , 2019 , 7, 1801180	8.1	26
205	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
204	Tailorable Optical Response of Au@InNbO ₃ Hybrid Metamaterial Thin Films for Optical Waveguide Applications. <i>Advanced Optical Materials</i> , 2018 , 6, 1800510	8.1	24
203	Strain-induced suppression of the miscibility gap in nanostructured Mg ₂ SiMg ₂ Sn solid solutions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17559-17570	13	24

202	Research Updates: Epitaxial strain relaxation and associated interfacial reconstructions: The driving force for creating new structures with integrated functionality. <i>APL Materials</i> , 2013 , 1, 050702	5.7	24
201	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
200	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
199	Vertically Aligned Nanocomposite BaTiO ₃ :YMnO ₃ Thin Films with Room Temperature Multiferroic Properties toward Nanoscale Memory Devices. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2509-2514	5.6	23
198	Practical Magnetic Pinning in YBCO. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 3148-3151	1.8	23
197	Self-Assembled Heteroepitaxial Oxide Nanocomposite for Photoelectrochemical Solar Water Oxidation. <i>Chemistry of Materials</i> , 2016 , 28, 3017-3023	9.6	23
196	. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-5	1.8	22
195	High strength, deformable nanotwinned Al ₃ Co alloys. <i>Materials Research Letters</i> , 2019 , 7, 33-39	7.4	22
194	3D strain-induced superconductivity in LaCuO using a simple vertically aligned nanocomposite approach. <i>Science Advances</i> , 2019 , 5, eaav5532	14.3	22
193	Aqueous Solution-Deposited Molybdenum Oxide Films as an Anode Interfacial Layer for Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18218-24	9.5	22
192	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
191	Enhanced tunable magnetoresistance properties over a wide temperature range in epitaxial (La _{0.7} Sr _{0.3} MnO ₃) _{1-x} (CeO ₂) _x nanocomposites. <i>Journal of Applied Physics</i> , 2015 , 118, 065302	2.5	22
190	A simplified superconducting coated conductor design with Fe-based superconductors on glass and flexible metallic substrates. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 380-385	5.7	21
189	A new approach to investigate Li ₂ MnO ₃ and Li(Ni _{0.5} Mn _{0.3} Co _{0.2})O ₂ mixed phase cathode materials. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2283-2289	13	21
188	Role of boundaries on low-field magnetotransport properties of La _{0.7} Sr _{0.3} MnO ₃ -based nanocomposite thin films. <i>Journal of Materials Research</i> , 2013 , 28, 1707-1714	2.5	21
187	Microstructure, Magnetic, and Magnetoresistance Properties of LaSrMnO ₃ :CuO Nanocomposite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5779-5784	9.5	20
186	Design of a Vertical Composite Thin Film System with Ultralow Leakage To Yield Large Converse Magnetoelectric Effect. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18237-18245	9.5	20
185	Vertical Interface Induced Dielectric Relaxation in Nanocomposite (BaTiO ₃) _{1-x} :(Sm ₂ O ₃) _x Thin Films. <i>Scientific Reports</i> , 2015 , 5, 11335	4.9	20

184	Two-Dimensional Layered Oxide Structures Tailored by Self-Assembled Layer Stacking via Interfacial Strain. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16845-51	9.5	19
183	Integration of Hybrid Plasmonic Au-BaTiO Metamaterial on Silicon Substrates. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45199-45206	9.5	19
182	Mixed-Valence Perovskite Thin Films by Polymer-Assisted Deposition. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1858-1863	3.8	19
181	Exchange Bias in a LaSrMnO/NiO Heterointerface Integrated on a Flexible Mica Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39920-39925	9.5	19
180	Strong perpendicular exchange bias in epitaxial La _{0.7} Sr _{0.3} MnO ₃ :LaFeO ₃ nanocomposite thin films. <i>APL Materials</i> , 2016 , 4, 076105	5.7	19
179	Solar-Blind UV Photodetector Based on Atomic Layer-Deposited CuO and Nanomembrane β -GaO pn Oxide Heterojunction. <i>ACS Omega</i> , 2019 , 4, 20756-20761	3.9	19
178	Novel Layered Supercell Structure from BiAlMnO for Multifunctionalities. <i>Nano Letters</i> , 2017 , 17, 6575-6583	6.5	18
177	Turning antiferromagnetic Sm(0.34)Sr(0.66)MnO ₃ into a 140 K ferromagnet using a nanocomposite strain tuning approach. <i>Nanoscale</i> , 2016 , 8, 8083-90	7.7	18
176	Structure and magnetotransport properties of epitaxial nanocomposite La _{0.67} Ca _{0.33} MnO ₃ :SrTiO ₃ thin films grown by a chemical solution approach. <i>Applied Physics Letters</i> , 2012 , 100, 082403	3.4	18
175	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
174	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
173	Strain and interface effects in a novel bismuth-based self-assembled supercell structure. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11631-6	9.5	17
172	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
171	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
170	Monolithic Mid-Infrared Integrated Photonics Using Silicon-on-Epitaxial Barium Titanate Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21848-21855	9.5	17
169	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. <i>Nano Letters</i> , 2020 , 20, 6614-6622	11.5	17
168	Roles of strain and domain boundaries on the phase transition stability of VO ₂ thin films. <i>Applied Physics Letters</i> , 2017 , 111, 153102	3.4	16
167	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

166	Transformational dynamics of BZO and BHO nanorods imposed by Y2O3 nanoparticles for improved isotropic pinning in YBa2Cu3O7- δ thin films. <i>AIP Advances</i> , 2017 , 7, 075308	1.5	16
165	Real-Time and Label-Free Chemical Sensor-on-a-chip using Monolithic Si-on-BaTiO Mid-Infrared waveguides. <i>Scientific Reports</i> , 2017 , 7, 5836	4.9	16
164	Ductile Fracture of Metallic Glass Nanolaminates. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700510	4.6	16
163	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
162	Real-time in situ optical tracking of oxygen vacancy migration in memristors. <i>Nature Electronics</i> , 2020 , 3, 687-693	28.4	16
161	Room temperature mechanical behaviour of a Ni-Fe multilayered material with modulated grain size distribution. <i>Philosophical Magazine</i> , 2014 , 94, 3549-3559	1.6	15
160	Advanced Thin Film Cathodes for Lithium Ion Batteries. <i>Research</i> , 2020 , 2020, 2969510	7.8	15
159	Interface Engineered Room-Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. <i>Advanced Science</i> , 2020 , 7, 1901606	13.6	15
158	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
157	Role of ALD AlO 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
156	Strain Enhanced Functionality in a Bottom-Up Approach Enabled 3D Super-Nanocomposites. <i>Advanced Functional Materials</i> , 2019 , 29, 1900442	15.6	14
155	Strongly bias-dependent tunnel magnetoresistance in manganite spin filter tunnel junctions. <i>Advanced Materials</i> , 2015 , 27, 3079-84	24	14
154	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
153	Enhancement of Low-field Magnetoresistance in Self-Assembled Epitaxial La _{0.67} Ca _{0.33} MnO ₃ :NiO and La _{0.67} Ca _{0.33} MnO ₃ :Co ₃ O ₄ Composite Films via Polymer-Assisted Deposition. <i>Scientific Reports</i> , 2016 , 6, 26390	4.9	14
152	Microstructural and Pinning Properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films Doped With Magnetic Nanoparticles. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 3503-3506	1.8	14
151	Probing the effect of interface on vortex pinning efficiency of one-dimensional BaZrO ₃ and BaHfO ₃ artificial pinning centers in YBa ₂ Cu ₃ O _{7-x} thin films. <i>Applied Physics Letters</i> , 2018 , 113, 212602	3.4	14
150	All-Oxide Nanocomposites to Yield Large, Tunable Perpendicular Exchange Bias above Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42593-42602	9.5	14
149	Scaled indium oxide transistors fabricated using atomic layer deposition. <i>Nature Electronics</i> , 2022 , 5, 164-170	28.4	14

148	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
147	Tunable magnetic anisotropy of self-assembled Fe nanostructures within a La _{0.5} Sr _{0.5} FeO ₃ matrix. <i>Applied Physics Letters</i> , 2018 , 112, 013104	3.4	13
146	Tailoring plasticity of metallic glasses via interfaces in Cu/amorphous CuNb laminates. <i>Journal of Materials Research</i> , 2017 , 32, 2680-2689	2.5	13
145	Interfacial defects distribution and strain coupling in the vertically aligned nanocomposite YBa ₂ Cu ₃ O _{7-x} /BaSnO ₃ thin films. <i>Journal of Materials Research</i> , 2012 , 27, 1763-1769	2.5	13
144	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
143	Flash sintering incubation kinetics. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	13
142	Misfit paradox on nucleation potency of MgO and MgAl ₂ O ₄ for Al. <i>Materials Characterization</i> , 2016 , 119, 92-98	3.9	13
141	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
140	Effective magnetic pinning schemes for enhanced superconducting property in high temperature superconductor YBa ₂ Cu ₃ O _{7-x} : a review. <i>Superconductor Science and Technology</i> , 2017 , 30, 114004	3.1	12
139	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
138	Oxygen-vacancy-mediated dielectric property in perovskite Eu _{0.5} Ba _{0.5} TiO ₃ -epitaxial thin films. <i>Applied Physics Letters</i> , 2018 , 112, 182906	3.4	12
137	Enhanced Flux Pinning Properties in Self-Assembled Magnetic CoFe_2O_4 Nanoparticles Doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 8001204-8001204	1.8	12
136	Flux Pinning Properties in YBCO Thin Films With Self-Aligned Magnetic Nanoparticles. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 2749-2752	1.8	12
135	Nanoporous thin films with controllable nanopores processed from vertically aligned nanocomposites. <i>Nanotechnology</i> , 2010 , 21, 285606	3.4	12
134	In situ nanomechanical testing of twinned metals in a transmission electron microscope. <i>MRS Bulletin</i> , 2016 , 41, 305-313	3.2	12
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128	Thermal stability of amorphous SiOC/crystalline Fe composite. <i>Philosophical Magazine</i> , 2015 , 95, 3876-3887	3.8	11
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126	Strengthening mechanisms and deformability of nanotwinned AlMg alloys. <i>Journal of Materials Research</i> , 2018 , 33, 3739-3749	2.5	11
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124	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
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122	Giant Enhancement of Polarization and Strong Improvement of Retention in Epitaxial Ba _{0.6} Sr _{0.4} TiO ₃ -Based Nanocomposites. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700336	4.6	9
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117	Correlation Between Flux Pinning Properties and Interfacial Defects in (YBa ₂ Cu ₃ O _{7-δ}) _x (CeO ₂) ₂ Multilayer Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 2758-2761	1.8	9
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115	Defects in flash-sintered ceramics and their effects on mechanical properties. <i>MRS Bulletin</i> , 2021 , 46, 44-51	3.2	9
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111	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
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109	Large-Scale Plasmonic Hybrid Framework with Built-In Nanohole Array as Multifunctional Optical Sensing Platforms. <i>Small</i> , 2020 , 16, e1906459	11	8
108	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
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105	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectric/antiferromagnetic/ferrimagnetic nanocomposites. <i>Nature Electronics</i> , 2021 , 4, 333-341	28.4	8
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103	Dual Beam In Situ Radiation Studies of Nanocrystalline Cu. <i>Materials</i> , 2019 , 12,	3.5	7
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101	Stabilizing new bismuth compounds in thin film form. <i>Journal of Materials Research</i> , 2016 , 31, 3530-3537	2.5	7
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98	Superconducting Iron Chalcogenide Thin Films Integrated on Flexible Mica Substrates. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-4	1.8	6
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21	Creating Ferromagnetic Insulating LaBaMnO Thin Films by Tuning Lateral Coherence Length. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8863-8870	9.5	1
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15	A Biodegradable Hybrid Micro/Nano Conductive Zinc Paste for Paper-Based Flexible Bioelectronics. <i>Advanced Materials Technologies</i> , 2101722	6.8	1
14	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
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