Di Zhang

List of Publications by Year
in descending order

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279 papers	10,907 citations	46918 47 h-index	43802 91 g-index
282 all docs	282 docs citations	282 times ranked	11457 citing authors

#	Article	IF	Citations
1	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. Nature, 2018, 562, 245-248.	13.7	2,589
2	Strain control and spontaneous phase ordering in vertical nanocomposite heteroepitaxial thin films. Nature Materials, 2008, 7, 314-320.	13.3	334
3	Thick lead-free ferroelectric films with high Curie temperatures through nanocomposite-induced strain. Nature Nanotechnology, 2011, 6, 491-495.	15.6	220
4	Controlled Growth of a Large-Size 2D Selenium Nanosheet and Its Electronic and Optoelectronic Applications. ACS Nano, 2017, 11, 10222-10229.	7.3	189
5	Dielectric relaxation, resonance and scaling behaviors in Sr3Co2Fe24O41 hexaferrite. Scientific Reports, 2015, 5, 13645.	1.6	180
6	Tunable Lowâ€Field Magnetoresistance in (La_{0.7}Sr_{0.3}MnO₃)_{0.5}:(ZnO)_{0.5} Selfâ€Assembled Vertically Aligned Nanocomposite Thin Films. Advanced Functional Materials, 2011, 21, 2423-2429.	7.8	174
7	Structural, electrical, and terahertz transmission properties of VO2 thin films grown on c-, r-, and m-plane sapphire substrates. Journal of Applied Physics, 2012, 111, .	1.1	172
8	Microstructure, vertical strain control and tunable functionalities in self-assembled, vertically aligned nanocomposite thin films. Acta Materialia, 2013, 61, 2783-2792.	3.8	153
9	Strongly enhanced oxygen ion transport through samarium-doped CeO2 nanopillars in nanocomposite films. Nature Communications, 2015, 6, 8588.	5.8	145
10	Making g-C3N4 ultra-thin nanosheets active for photocatalytic overall water splitting. Applied Catalysis B: Environmental, 2021, 282, 119557.	10.8	121
11	Why In₂O₃ Can Make 0.7 nm Atomic Layer Thin Transistors. Nano Letters, 2021, 21, 500-506.	4.5	99
12	Interfacial coupling in heteroepitaxial vertically aligned nanocomposite thin films: From lateral to vertical control. Current Opinion in Solid State and Materials Science, 2014, 18, 6-18.	5.6	98
13	Scaled indium oxide transistors fabricated using atomic layer deposition. Nature Electronics, 2022, 5, 164-170.	13.1	98
14	Highâ€Strength Nanotwinned Al Alloys with 9R Phase. Advanced Materials, 2018, 30, 1704629.	11.1	93
15	High power density thin film SOFCs with YSZ/GDC bilayer electrolyte. Electrochimica Acta, 2011, 56, 5472-5477.	2.6	92
16	Self-Assembled Epitaxial Auâ€“Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. Nano Letters, 2016, 16, 3936-3943.	4.5	91
17	Ionic Conductivity Increased by Two Orders of Magnitude in Micrometer-Thick Vertical Yttria-Stabilized ZrO₂ Nanocomposite Films. Nano Letters, 2015, 15, 7362-7369.	4.5	90
18	Vertical Interface Effect on the Physical Properties of Selfâ€Assembled Nanocomposite Epitaxial Films. Advanced Materials, 2009, 21, 3794-3798.	11.1	87

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19	Continuous Tuning of Phase Transition Temperature in VO₂ Thin Films on c-Cut Sapphire Substrates via Strain Variation. ACS Applied Materials & Interfaces, 2017, 9, 5319-5327.	4.0	87
20	High temperature deformability of ductile flash-sintered ceramics via in-situ compression. Nature Communications, 2018, 9, 2063.	5.8	87
21	New epitaxy paradigm in epitaxial self-assembled oxide vertically aligned nanocomposite thin films. Journal of Materials Research, 2017, 32, 4054-4066.	1.2	86
22	Nanoscale stacking faultâ€“assisted room temperature plasticity in flash-sintered TiO ₂. Science Advances, 2019, 5, eaaw5519.	4.7	82
23	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. Nature Communications, 2016, 7, 12373.	5.8	81
24	Role of scaffold network in controlling strain and functionalities of nanocomposite films. Science Advances, 2016, 2, e1600245.	4.7	80
25	A New Class of Roomâ€Temperature Multiferroic Thin Films with Bismuthâ€Based Supercell Structure. Advanced Materials, 2013, 25, 1028-1032.	11.1	78
26	Novel Electroformingâ€Free Nanoscaffold Memristor with Very High Uniformity, Tunability, and Density. Advanced Materials, 2014, 26, 6284-6289.	11.1	75
27	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. Advanced Materials, 2019, 31, e1902492.	11.1	75
28	Microstructure, magnetic, and low-field magnetotransport properties of self-assembled (La_{0.7}Sr_{0.3}MnO₃)_{0.5}:(CeO₂)_{0.5}vertically aligned nanocomposite thin films. Nanotechnology, 2011, 22, 315712.	1.8	70
29	Multifunctional, self-assembled oxide nanocomposite thin films and devices. MRS Bulletin, 2015, 40, 736-745.	1.7	70
30	Promoting effect of cyano groups attached on g-C3N4 nanosheets towards molecular oxygen activation for visible light-driven aerobic coupling of amines to imines. Journal of Catalysis, 2018, 366, 237-244.	3.1	68
31	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. Nature Communications, 2017, 8, 1653.	5.8	66
32	Self-assembled Coâ€“BaZrO₃ nanocomposite thin films with ultra-fine vertically aligned Co nanopillars. Nanoscale, 2017, 9, 7970-7976.	2.8	64
33	Multifunctional La_{0.67}Sr_{0.33}MnO₃ (LSMO) Thin Films Integrated on Mica Substrates toward Flexible Spintronics and Electronics. ACS Applied Materials & Interfaces, 2018, 10, 42698-42705.	4.0	62
34	Ultra-smooth glassy graphene thin films for flexible transparent circuits. Science Advances, 2016, 2, e1601574.	4.7	59
35	Integration of Self-Assembled Vertically Aligned Nanocomposite (La_{0.7}Sr_{0.3}MnO₃)_{1â€“x}:(ZnO)_x Thin Films on Silicon Substrates. ACS Applied Materials & Interfaces, 2013, 5, 3995-3999.	4.0	58
36	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. Materials Horizons, 2018, 5, 536-544.	6.4	57

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37	Nanoscale Artificial Plasmonic Lattice in Selfâ€Assembled Vertically Aligned Nitrideâ€“Metal Hybrid Metamaterials. Advanced Science, 2018, 5, 1800416.	5.6	56
38	Selfâ€Assembled Ordered Threeâ€Phase Auâ€“BaTiO₃â€“ZnO Vertically Aligned Nanocomposites Achieved by a Templating Method. Advanced Materials, 2019, 31, e1806529.	11.1	56
39	Strain Tuning and Strong Enhancement of Ionic Conductivity in SrZrO₃â€“RE₂O₃ (RE = Sm, Eu, Gd, Dy, and Er) Nanocomposite Films. Advanced Functional Materials, 2015, 25, 4328-4333.	7.8	54
40	Highâ€speed atmospheric atomic layer deposition of ultra thin amorphous TiO₂ blocking layers at 100â€‰Â°C for inverted bulk heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2013, 21, 393-400.	4.4	52
41	Vertically aligned nanocomposite electrolytes with superior out-of-plane ionic conductivity for solid oxide fuel cells. Journal of Power Sources, 2013, 242, 455-463.	4.0	52
42	Sharp semiconductor-to-metal transition of VO2 thin films on glass substrates. Journal of Applied Physics, 2013, 114, .	1.1	52
43	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
44	Very High Surface Area Mesoporous Thin Films of SrTiO₃ Grown by Pulsed Laser Deposition and Application to Efficient Photoelectrochemical Water Splitting. Nano Letters, 2016, 16, 7338-7345.	4.5	51
45	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. Advanced Functional Materials, 2020, 30, 2000664.	7.8	50
46	Precise Tuning of (YBa₂Cu₃O_{7â€Î´})_{1â€x}:(BaZrO₃)_x Thin Film Nanocomposite Structures. Advanced Functional Materials, 2014, 24, 5240-5245.	7.8	49
47	Roles of grain boundaries on the semiconductor to metal phase transition of VO2 thin films. Applied Physics Letters, 2015, 107, .	1.5	48
48	Ferroelectric Properties of Vertically Aligned Nanostructured BaTiO₃â€“CeO₂ Thin Films and Their Integration on Silicon. ACS Applied Materials & Interfaces, 2013, 5, 12541-12547.	4.0	47
49	Strong room temperature exchange bias in self-assembled BiFeO3â€“Fe3O4 nanocomposite heteroepitaxial films. Applied Physics Letters, 2013, 102, .	1.5	46
50	Resonance Raman spectroscopy of G-line and folded phonons in twisted bilayer graphene with large rotation angles. Applied Physics Letters, 2013, 103, .	1.5	46
51	Laser-Induced Mesoporous Nickel Oxide as a Highly Sensitive Nonenzymatic Glucose Sensor. ACS Applied Nano Materials, 2020, 3, 5260-5270.	2.4	46
52	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO3:CoFe2O4 vertically aligned nanocomposite thin films. Applied Physics Letters, 2014, 104, .	1.5	45
53	The Role of Lattice Misfit on Heterogeneous Nucleation of Pure Aluminum. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5012-5022.	1.1	45
54	Microstructural and magnetic properties of (La0.7Sr0.3MnO3)0.7:(Mn3O4)0.3 nanocomposite thin films. Journal of Applied Physics, 2011, 109, .	1.1	44

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55	The effects of external fields in ceramic sintering. Journal of the American Ceramic Society, 2019, 102, 5-31.	1.9	44
56	Strong perpendicular exchange bias in epitaxial La_{0.7}Sr_{0.3}MnO₃:BiFeO₃nanocomposite films through vertical interfacial coupling. Nanoscale, 2015, 7, 13808-13815.	2.8	43
57	Real-time in situ optical tracking of oxygen vacancy migration in memristors. Nature Electronics, 2020, 3, 687-693.	13.1	43
58	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
59	Textured metastable VO2 (B) thin films on SrTiO3 substrates with significantly enhanced conductivity. Applied Physics Letters, 2014, 104, .	1.5	41
60	Perpendicular Exchange-Biased Magnetotransport at the Vertical Heterointerfaces in La_{0.7}Sr_{0.3}MnO₃:NiO Nanocomposites. ACS Applied Materials & Interfaces, 2015, 7, 21646-21651.	4.0	40
61	Bioinspired Dynamic Camouflage from Colloidal Nanocrystals Embedded Electrochromics. Nano Letters, 2021, 21, 4500-4507.	4.5	40
62	Self-Assembled Magnetic Metallic Nanopillars in Ceramic Matrix with Anisotropic Magnetic and Electrical Transport Properties. ACS Applied Materials & Interfaces, 2016, 8, 20283-20291.	4.0	39
63	Room Temperature Ferrimagnetism and Ferroelectricity in Strained, Thin Films of BiFe_{0.5}Mn_{0.5}O₃. Advanced Functional Materials, 2014, 24, 7478-7487.	7.8	38
64	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. Nano Letters, 2020, 20, 6614-6622.	4.5	38
65	New strain states and radical property tuning of metal oxides using a nanocomposite thin film approach. APL Materials, 2015, 3, 062507.	2.2	37
66	In situ polymerization of ethylenedioxythiophene from sulfonated carbon nanotube templates: toward high efficiency ITO-free solar cells. Journal of Materials Chemistry A, 2016, 4, 6645-6652.	5.2	37
67	Hybrid plasmonic Auâ€“TiN vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. Nanoscale Advances, 2019, 1, 1045-1054.	2.2	37
68	Tunable lattice strain in vertically aligned nanocomposite (BiFeO3)x:(Sm2O3)1â^'x thin films. Journal of Applied Physics, 2009, 106, .	1.1	36
69	Selfâ€Organized Epitaxial Vertically Aligned Nanocomposites with Longâ€Range Ordering Enabled by Substrate Nanotemplating. Advanced Materials, 2017, 29, 1606861.	11.1	36
70	Exchange Bias in a La_{0.67}Sr_{0.33}MnO₃/NiO Heterointerface Integrated on a Flexible Mica Substrate. ACS Applied Materials & Interfaces, 2020, 12, 39920-39925.	4.0	36
71	Solar-Blind UV Photodetector Based on Atomic Layer-Deposited Cu₂O and Nanomembrane Î²-Ga₂O₃ pn Oxide Heterojunction. ACS Omega, 2019, 4, 20756-20761.	1.6	35
72	Tailorable Au Nanoparticles Embedded in Epitaxial TiO₂ Thin Films for Tunable Optical Properties. ACS Applied Materials & Interfaces, 2018, 10, 32895-32902.	4.0	34

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73	Self-assembled vertically aligned Ni nanopillars in CeO₂ with anisotropic magnetic and transport properties for energy applications. Nanoscale, 2018, 10, 17182-17188.	2.8	34
74	Evolution of microstructure, strain and physical properties in oxide nanocomposite films. Scientific Reports, 2014, 4, 5426.	1.6	33
75	Exchange Bias Effect along Vertical Interfaces in La0.7Sr0.3MnO3:NiO Vertically Aligned Nanocomposite Thin Films Integrated on Silicon Substrates. Crystal Growth and Design, 2018, 18, 4388-4394.	1.4	33
76	Tailorable Optical Response of Auâ€“LiNbO₃ Hybrid Metamaterial Thin Films for Optical Waveguide Applications. Advanced Optical Materials, 2018, 6, 1800510.	3.6	32
77	High strength, deformable nanotwinned Alâ€“Co alloys. Materials Research Letters, 2019, 7, 33-39.	4.1	32
78	Study of the Flux Pinning Landscape of YBCO Thin Films With Single and Mixed Phase Additions BaMO3 + Z: M = Hf, Sn, Zr and Z = Y2O3, Y211. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	31
79	3D strain-induced superconductivity in La ₂ CuO _{4+Î´} using a simple vertically aligned nanocomposite approach. Science Advances, 2019, 5, eaav5532.	4.7	31
80	Selfâ€Assembled Agâ€“TiN Hybrid Plasmonic Metamaterial: Tailorable Tilted Nanopillar and Optical Properties. Advanced Optical Materials, 2019, 7, 1801180.	3.6	31
81	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
82	Role of ALD Al₂O₃ Surface Passivation on the Performance of p-Type Cu₂O Thin Film Transistors. ACS Applied Materials & Interfaces, 2021, 13, 4156-4164.	4.0	31
83	A New Material for Highâ€Temperature Leadâ€Free Actuators. Advanced Functional Materials, 2013, 23, 5881-5886.	7.8	30
84	Plastic deformation mechanisms and size effect of Cu50Zr50/Cu amorphous/crystalline nanolaminate: A molecular dynamics study. Computational Materials Science, 2017, 129, 137-146.	1.4	30
85	Strain-induced suppression of the miscibility gap in nanostructured Mg₂Siâ€“Mg₂Sn solid solutions. Journal of Materials Chemistry A, 2018, 6, 17559-17570.	5.2	30
86	Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. Applied Materials Today, 2019, 16, 204-212.	2.3	30
87	Strain-Driven In-plane Ordering in Vertically Aligned ZnOâ€“Au Nanocomposites with Highly Correlated Metamaterial Properties. ACS Omega, 2020, 5, 2234-2241.	1.6	30
88	Research Updates: Epitaxial strain relaxation and associated interfacial reconstructions: The driving force for creating new structures with integrated functionality. APL Materials, 2013, 1, .	2.2	29
89	LiNi0.5Mn0.3Co0.2O2/Au nanocomposite thin film cathode with enhanced electrochemical properties. Nano Energy, 2018, 46, 290-296.	8.2	29
90	Vertically Aligned Nanocomposite BaTiO₃:YMnO₃ Thin Films with Room Temperature Multiferroic Properties toward Nanoscale Memory Devices. ACS Applied Nano Materials, 2018, 1, 2509-2514.	2.4	29

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91	Self-Assembled Heteroepitaxial Oxide Nanocomposite for Photoelectrochemical Solar Water Oxidation. Chemistry of Materials, 2016, 28, 3017-3023.	3.2	28
92	Practical Magnetic Pinning in YBCO. IEEE Transactions on Applied Superconductivity, 2009, 19, 3148-3151.	1.1	27
93	Microscopic adaptation of BaHfO₃and Y₂O₃artificial pinning centers for strong and isotropic pinning landscape in YBa₂Cu₃O_{7â€“x}thin films. Superconductor Science and Technology, 2018, 31, 025008.	1.8	27
94	Tunable Optical Properties in Selfâ€Assembled Oxideâ€Metal Hybrid Thin Films via Auâ€Phase Geometry Control: From Nanopillars to Nanodisks. Advanced Optical Materials, 2020, 8, 1901359.	3.6	27
95	Highly Conductive Copperâ€“Silver Bimodal Paste for Low-Cost Printed Electronics. ACS Applied Electronic Materials, 2021, 3, 3352-3364.	2.0	27
96	Enhanced tunable magnetoresistance properties over a wide temperature range in epitaxial (La0.7Sr0.3MnO3)1â^'x:(CeO2)x nanocomposites. Journal of Applied Physics, 2015, 118, .	1.1	26
97	Aqueous Solution-Deposited Molybdenum Oxide Films as an Anode Interfacial Layer for Organic Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 18218-18224.	4.0	26
98	Two-Dimensional Layered Oxide Structures Tailored by Self-Assembled Layer Stacking via Interfacial Strain. ACS Applied Materials & Interfaces, 2016, 8, 16845-16851.	4.0	26
99	Broad Range Tuning of Phase Transition Property in VO₂ Through Metalâ€Ceramic Nanocomposite Design. Advanced Functional Materials, 2019, 29, 1903690.	7.8	26
100	Multifunctional Metalâ€“Oxide Nanocomposite Thin Film with Plasmonic Au Nanopillars Embedded in Magnetic La_{0.67}Sr_{0.33}MnO₃ Matrix. Nano Letters, 2021, 21, 1032-1039.	4.5	26
101	A simplified superconducting coated conductor design with Fe-based superconductors on glass and flexible metallic substrates. Journal of Alloys and Compounds, 2015, 647, 380-385.	2.8	25
102	Turning antiferromagnetic Sm_{0.34}Sr_{0.66}MnO₃ into a 140 K ferromagnet using a nanocomposite strain tuning approach. Nanoscale, 2016, 8, 8083-8090.	2.8	25
103	Novel Layered Supercell Structure from Bi₂AlMnO₆ for Multifunctionalities. Nano Letters, 2017, 17, 6575-6582.	4.5	25
104	Integration of Hybrid Plasmonic Auâ€“BaTiO₃ Metamaterial on Silicon Substrates. ACS Applied Materials & Interfaces, 2019, 11, 45199-45206.	4.0	25
105	Study of deformation mechanisms in flash-sintered yttria-stabilized zirconia by in-situ micromechanical testing at elevated temperatures. Materials Research Letters, 2019, 7, 194-202.	4.1	25
106	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
107	A new approach to investigate Li₂MnO₃and Li(Ni_{0.5}Mn_{0.3}Co_{0.2})O₂mixed phase cathode materials. Journal of Materials Chemistry A, 2014, 2, 2283-2289.	5.2	24
108	Roles of strain and domain boundaries on the phase transition stability of VO2 thin films. Applied Physics Letters, 2017, 111, .	1.5	24

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109	â€œDuctileâ€•Fracture of Metallic Glass Nanolaminates. Advanced Materials Interfaces, 2017, 4, 1700510.	1.9	24
110	Microstructure, Magnetic, and Magnetoresistance Properties of La0.7Sr0.3MnO3:CuO Nanocomposite Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 5779-5784.	4.0	24
111	Design of a Vertical Composite Thin Film System with Ultralow Leakage To Yield Large Converse Magnetoelectric Effect. ACS Applied Materials & Interfaces, 2018, 10, 18237-18245.	4.0	24
112	Interface Engineered Roomâ€Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. Advanced Science, 2020, 7, 1901606.	5.6	24
113	Flash sintering incubation kinetics. Npj Computational Materials, 2020, 6, .	3.5	24
114	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 2629-2636.	7.2	24
115	Defects in flash-sintered ceramics and their effects on mechanical properties. MRS Bulletin, 2021, 46, 44-51.	1.7	24
116	Monolithic Mid-Infrared Integrated Photonics Using Silicon-on-Epitaxial Barium Titanate Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 21848-21855.	4.0	23
117	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
118	Wireless Humidity Sensor for Smart Packaging via Oneâ€step Laserâ€Induced Patterning and Nanoparticle Formation on Metallized Paper. Advanced Electronic Materials, 2022, 8, .	2.6	23
119	Emergent multiferroism with magnetodielectric coupling in EuTiO3 created by a negative pressure control of strong spin-phonon coupling. Nature Communications, 2022, 13, 2364.	5.8	23
120	Role of boundaries on low-field magnetotransport properties of La_{0.7}Sr_{0.3}MnO₃-based nanocomposite thin films. Journal of Materials Research, 2013, 28, 1707-1714.	1.2	22
121	Strain and Interface Effects in a Novel Bismuth-Based Self-Assembled Supercell Structure. ACS Applied Materials & Interfaces, 2015, 7, 11631-11636.	4.0	22
122	Strong perpendicular exchange bias in epitaxial La0.7Sr0.3MnO3:LaFeO3 nanocomposite thin films. APL Materials, 2016, 4, .	2.2	22
123	Probing the effect of interface on vortex pinning efficiency of one-dimensional BaZrO3 and BaHfO3 artificial pinning centers in YBa2Cu3O7-x thin films. Applied Physics Letters, 2018, 113, .	1.5	22
124	Spontaneous Ordering of Oxide-Oxide Epitaxial Vertically Aligned Nanocomposite Thin Films. Annual Review of Materials Research, 2020, 50, 229-253.	4.3	22
125	Advanced Thin Film Cathodes for Lithium Ion Batteries. Research, 2020, 2020, 2969510.	2.8	22
126	Vertical Interface Induced Dielectric Relaxation in Nanocomposite (BaTiO3)1-x:(Sm2O3)x Thin Films. Scientific Reports, 2015, 5, 11335.	1.6	21

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127	Mixed-Valence Perovskite Thin Films by Polymer-Assisted Deposition. Journal of the American Ceramic Society, 2008, 91, 1858-1863.	1.9	20
128	Transformational dynamics of BZO and BHO nanorods imposed by Y2O3 nanoparticles for improved isotropic pinning in YBa2Cu3O7-Î´ thin films. AIP Advances, 2017, 7, .	0.6	20
129	Vertically Aligned Ag_xAu_{1â€“x} Alloyed Nanopillars Embedded in ZnO as Nanoengineered Low-Loss Hybrid Plasmonic Metamaterials. Nano Letters, 2020, 20, 3778-3785.	4.5	20
130	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
131	Structure and magnetotransport properties of epitaxial nanocomposite La0.67Ca0.33MnO3:SrTiO3 thin films grown by a chemical solution approach. Applied Physics Letters, 2012, 100, 082403.	1.5	19
132	Effective magnetic pinning schemes for enhanced superconducting property in high temperature superconductor YBa₂Cu₃O_{7â^’x}: a review. Superconductor Science and Technology, 2017, 30, 114004.	1.8	19
133	Real-Time and Label-Free Chemical Sensor-on-a-chip using Monolithic Si-on-BaTiO3 Mid-Infrared waveguides. Scientific Reports, 2017, 7, 5836.	1.6	19
134	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
135	3D Hybrid Plasmonic Framework with Au Nanopillars Embedded in Nitride Multilayers Integrated on Si. Advanced Materials Interfaces, 2020, 7, 2000493.	1.9	18
136	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectricâ€“antiferromagneticâ€“ferrimagnetic nanocomposites. Nature Electronics, 2021, 4, 333-341.	13.1	18
137	Printing dynamic color palettes and layered textures through modeling-guided stacking of electrochromic polymers. Materials Horizons, 2022, 9, 425-432.	6.4	18
138	Microstructural and Pinning Properties of ${m YBa}_{2}{m Cu}_{3}{m O}_{7-delta}$ Thin Films Doped With Magnetic Nanoparticles. IEEE Transactions on Applied Superconductivity, 2009, 19, 3503-3506.	1.1	17
139	Room temperature mechanical behaviour of a Ni-Fe multilayered material with modulated grain size distribution. Philosophical Magazine, 2014, 94, 3549-3559.	0.7	17
140	Tailoring plasticity of metallic glasses via interfaces in Cu/amorphous CuNb laminates. Journal of Materials Research, 2017, 32, 2680-2689.	1.2	17
141	Strain Enhanced Functionality in a Bottomâ€Up Approach Enabled 3D Superâ€Nanocomposites. Advanced Functional Materials, 2019, 29, 1900442.	7.8	17
142	Multifunctional self-assembled BaTiO3-Au nanocomposite thin films on flexible mica substrates with tunable optical properties. Applied Materials Today, 2020, 21, 100856.	2.3	17
143	Nanoengineering room temperature ferroelectricity into orthorhombic SmMnO3 films. Nature Communications, 2020, 11, 2207.	5.8	17
144	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

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145	High-Temperature and Flexible Piezoelectric Sensors for Lamb-Wave-Based Structural Health Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 47764-47772.	4.0	17
146	Enhanced Flux Pinning Properties in Self-Assembled Magnetic $hbox{CoFe}_{2}hbox{O}_{4}$ Nanoparticles Doped $ hbox{YBa}_{2}hbox{Cu}_{3}hbox{O}_{7 - delta}$ Thin Films. IEEE Transactions on Applied Superconductivity, 2013, 23, 8001204-8001204.	1.1	16
147	Enhancement of Low-field Magnetoresistance in Self-Assembled Epitaxial La0.67Ca0.33MnO3:NiO and La0.67Ca0.33MnO3:Co3O4 Composite Films via Polymer-Assisted Deposition. Scientific Reports, 2016, 6, 26390.	1.6	16
148	Tunable magnetic anisotropy of self-assembled Fe nanostructures within a La0.5Sr0.5FeO3 matrix. Applied Physics Letters, 2018, 112, .	1.5	16
149	Oxygen-vacancy-mediated dielectric property in perovskite Eu0.5Ba0.5TiO3-Î´ epitaxial thin films. Applied Physics Letters, 2018, 112, .	1.5	16
150	All-Oxide Nanocomposites to Yield Large, Tunable Perpendicular Exchange Bias above Room Temperature. ACS Applied Materials & Interfaces, 2018, 10, 42593-42602.	4.0	16
151	Au-Encapsulated Fe Nanorods in Oxide Matrix with Tunable Magneto-Optic Coupling Properties. ACS Applied Materials & Interfaces, 2020, 12, 51827-51836.	4.0	16
152	Electrochromic Properties of Perovskite NdNiO₃ Thin Films for Smart Windows. ACS Applied Electronic Materials, 2021, 3, 1719-1731.	2.0	16
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