Jie Jian

List of Publications by Year in descending order

63 papers	2,154 citations	218381 26 h-index	243296 44 g-index
63 all docs	63 docs citations	63 times ranked	2884 citing authors

#	Article	IF	Citations
1	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie, 2021, 133, 2661-2668.	1.6	5
2	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 2629-2636.	7.2	24
3	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
4	Self-Assembled BaTiO₃â€“Au_xAg_{1â€“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
5	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
6	Ultra-high heating rate effects on the sintering of ceramic nanoparticles: an inÂsitu TEM study. Materials Research Letters, 2021, 9, 373-381.	4.1	13
7	Tunable physical properties in BiAl_{1â^'x}Mn_xO₃ thin films with novel layered supercell structures. Nanoscale Advances, 2020, 2, 315-322.	2.2	10
8	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
9	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
10	Effective doping control in Sm-doped BiFeO₃ thin films via deposition temperature. RSC Advances, 2020, 10, 40229-40233.	1.7	5
11	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. Nano Letters, 2020, 20, 6614-6622.	4.5	38
12	Bidirectional tuning of phase transition properties in Ptâ€‰:â€‰VO₂nanocomposite thin films. Nanoscale, 2020, 12, 17886-17894.	2.8	13
13	Vertically aligned nanocomposite (BaTiO₃)_{0.8}â€‰:â€‰(La_{0.7}Sr_{0.3}MnO₃)_{0.2} thin films with anisotropic multifunctionalities. Nanoscale Advances, 2020, 2, 3276-3283.	2.2	15
14	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
15	Novel layered Bi₃MoM_TO₉ (M_T = Mn, Fe, Co and Ni) thin films with tunable multifunctionalities. Nanoscale, 2020, 12, 5914-5921.	2.8	11
16	Thermally Stable Auâ€“BaTiO₃ Nanoscale Hybrid Metamaterial for High-Temperature Plasmonic Applications. ACS Applied Nano Materials, 2020, 3, 1431-1437.	2.4	15
17	Achieving ferromagnetic insulating properties in La_{0.9}Ba_{0.1}MnO₃ thin films through nanoengineering. Nanoscale, 2020, 12, 9255-9265.	2.8	12
18	Tunable low-field magnetoresistance properties in (La0.7Ca0.3MnO3)1â^'x:(CeO2)x vertically aligned nanocomposite thin films. Applied Physics Letters, 2019, 115, 053103.	1.5	15

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19	Broad Range Tuning of Phase Transition Property in VO₂ Through Metalâ€Ceramic Nanocomposite Design. Advanced Functional Materials, 2019, 29, 1903690.	7.8	26
20	Interfacial Engineering Enabled Novel Bi-Based Layered Oxide Supercells with Modulated Microstructures and Tunable Physical Properties. Crystal Growth and Design, 2019, 19, 7088-7095.	1.4	6
21	Nanoscale stacking faultâ€“assisted room temperature plasticity in flash-sintered TiO ₂. Science Advances, 2019, 5, eaaw5519.	4.7	82
22	Hybrid plasmonic Auâ€“TiN vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. Nanoscale Advances, 2019, 1, 1045-1054.	2.2	37
23	Strain and property tuning of the 3D framed epitaxial nanocomposite thin films via interlayer thickness variation. Journal of Applied Physics, 2019, 125, .	1.1	16
24	AlN-based hybrid thin films with self-assembled plasmonic Au and Ag nanoinclusions. Applied Physics Letters, 2019, 114, .	1.5	6
25	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
26	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. Advanced Materials, 2019, 31, e1902492.	11.1	75
27	Self-assembled two-dimensional layered oxide supercells with modulated layer stacking and tunable physical properties. Materials Today Nano, 2019, 6, 100037.	2.3	14
28	Tuning magnetic anisotropy in Coâ€“BaZrO₃ vertically aligned nanocomposites for memory device integration. Nanoscale Advances, 2019, 1, 4450-4458.	2.2	15
29	Selfâ€Assembled Ordered Threeâ€Phase Auâ€“BaTiO₃â€“ZnO Vertically Aligned Nanocomposites Achieved by a Templating Method. Advanced Materials, 2019, 31, e1806529.	11.1	56
30	Strain tuning of ferroelectric and optical properties of rhombohedral-like BiFeO3 thin films on SrRuO3-buffered substrates. Materials Research Bulletin, 2019, 110, 120-125.	2.7	20
31	Selfâ€Assembled Agâ€“TiN Hybrid Plasmonic Metamaterial: Tailorable Tilted Nanopillar and Optical Properties. Advanced Optical Materials, 2019, 7, 1801180.	3.6	31
32	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. Materials Horizons, 2018, 5, 536-544.	6.4	57
33	Kinetic instability of AlGaN alloys during MBE growth under metal-rich conditions on m-plane GaN miscut towards the -c axis. Journal of Applied Physics, 2018, 123, 161581.	1.1	11
34	Tunable magnetic anisotropy of self-assembled Fe nanostructures within a La0.5Sr0.5FeO3 matrix. Applied Physics Letters, 2018, 112, .	1.5	16
35	Nanoscale Artificial Plasmonic Lattice in Selfâ€Assembled Vertically Aligned Nitrideâ€“Metal Hybrid Metamaterials. Advanced Science, 2018, 5, 1800416.	5.6	56
36	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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37	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
38	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
39	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
40	Selfâ€Organized Epitaxial Vertically Aligned Nanocomposites with Longâ€Range Ordering Enabled by Substrate Nanotemplating. Advanced Materials, 2017, 29, 1606861.	11.1	36
41	Room temperature magnetodielectric effects in epitaxial hexaferrite BaFe10.2Sc1.8O19 thin film. Applied Physics Letters, 2017, 110, .	1.5	11
42	Novel Layered Supercell Structure from Bi₂AlMnO₆ for Multifunctionalities. Nano Letters, 2017, 17, 6575-6582.	4.5	25
43	Roles of strain and domain boundaries on the phase transition stability of VO2 thin films. Applied Physics Letters, 2017, 111, .	1.5	24
44	Ultra-smooth glassy graphene thin films for flexible transparent circuits. Science Advances, 2016, 2, e1601574.	4.7	59
45	Strong perpendicular exchange bias in epitaxial La0.7Sr0.3MnO3:LaFeO3 nanocomposite thin films. APL Materials, 2016, 4, .	2.2	22
46	Self-Assembled Epitaxial Auâ€“Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. Nano Letters, 2016, 16, 3936-3943.	4.5	91
47	Self-Assembled Heteroepitaxial Oxide Nanocomposite for Photoelectrochemical Solar Water Oxidation. Chemistry of Materials, 2016, 28, 3017-3023.	3.2	28
48	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
49	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
50	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. Nature Communications, 2016, 7, 12373.	5.8	81
51	Dielectric relaxation, resonance and scaling behaviors in Sr3Co2Fe24O41 hexaferrite. Scientific Reports, 2015, 5, 13645.	1.6	180
52	Roles of grain boundaries on the semiconductor to metal phase transition of VO2 thin films. Applied Physics Letters, 2015, 107, .	1.5	48
53	Thermal stability of amorphous SiOC/crystalline Fe composite. Philosophical Magazine, 2015, 95, 3876-3887.	0.7	11
54	Strongly Biasâ€Dependent Tunnel Magnetoresistance in Manganite Spin Filter Tunnel Junctions. Advanced Materials, 2015, 27, 3079-3084.	11.1	15

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55	Enhanced Flux Pinning Properties in $hbox{YBa}_{2}hbox{Cu}_{3}hbox{O}_{7-delta}$/ $(hbox{CoFe}_{2}hbox{O}_{4})_{0.3}(hbox{CeO}_{2})_{0.7} $ Multilayer Thin Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	2
56	Strongly enhanced oxygen ion transport through samarium-doped CeO2 nanopillars in nanocomposite films. Nature Communications, 2015, 6, 8588.	5.8	145
57	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO3:CoFe2O4 vertically aligned nanocomposite thin films. Applied Physics Letters, 2014, 104, .	1.5	45
58	Room temperature mechanical behaviour of a Ni-Fe multilayered material with modulated grain size distribution. Philosophical Magazine, 2014, 94, 3549-3559.	0.7	17
59	Magnetic properties of (CoFe2O4)x:(CeO2)1â^'x vertically aligned nanocomposites and their pinning properties in YBa2Cu3O7â^'Î´ thin films. Journal of Applied Physics, 2014, 115, 123902.	1.1	25
60	Textured metastable VO2 (B) thin films on SrTiO3 substrates with significantly enhanced conductivity. Applied Physics Letters, 2014, 104, .	1.5	41
61	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
62	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
63	Sharp semiconductor-to-metal transition of VO2 thin films on glass substrates. Journal of Applied Physics, 2013, 114, .	1.1	52