Jie Jian

List of Publications by Year in descending order

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63	2,154	218677	243625
papers	citations	26 h-index	44 g-index

63	63	63	2884
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dielectric relaxation, resonance and scaling behaviors in Sr3Co2Fe24O41 hexaferrite. Scientific Reports, 2015, 5, 13645.	3.3	180
2	Strongly enhanced oxygen ion transport through samarium-doped CeO2 nanopillars in nanocomposite films. Nature Communications, 2015, 6, 8588.	12.8	145
3	Self-Assembled Epitaxial Auâ€“Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. Nano Letters, 2016, 16, 3936-3943.	9.1	91
4	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.	8.0	87
5	Nanoscale stacking faultâ€“assisted room temperature plasticity in flash-sintered TiO ₂. Science Advances, 2019, 5, eaaw5519.	10.3	82
6	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. Nature Communications, 2016, 7, 12373.	12.8	81
7	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. Advanced Materials, 2019, 31, e1902492.	21.0	75
8	Ultra-smooth glassy graphene thin films for flexible transparent circuits. Science Advances, 2016, 2, e1601574.	10.3	59
9	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. Materials Horizons, 2018, 5, 536-544.	12.2	57
10	Nanoscale Artificial Plasmonic Lattice in Selfâ€Assembled Vertically Aligned Nitrideâ€“Metal Hybrid Metamaterials. Advanced Science, 2018, 5, 1800416.	11.2	56
11	Selfâ€Assembled Ordered Threeâ€Phase Auâ€“BaTiO₃â€“ZnO Vertically Aligned Nanocomposites Achieved by a Templating Method. Advanced Materials, 2019, 31, e1806529.	21.0	56
12	Sharp semiconductor-to-metal transition of VO2 thin films on glass substrates. Journal of Applied Physics, 2013, 114, .	2.5	52
13	Perovskite Transparent Conducting Oxide for the Design of a Transparent, Flexible, and Self-Powered Perovskite Photodetector. ACS Applied Materials & Interfaces, 2020, 12, 16462-16468.	8.0	52
14	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.	9.1	51
15	Roles of grain boundaries on the semiconductor to metal phase transition of VO2 thin films. Applied Physics Letters, 2015, 107, .	3.3	48
16	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO3:CoFe2O4 vertically aligned nanocomposite thin films. Applied Physics Letters, 2014, 104, .	3.3	45
17	Textured metastable VO2 (B) thin films on SrTiO3 substrates with significantly enhanced conductivity. Applied Physics Letters, 2014, 104, .	3.3	41
18	Self-Assembled Magnetic Metallic Nanopillars in Ceramic Matrix with Anisotropic Magnetic and Electrical Transport Properties. ACS Applied Materials & Interfaces, 2016, 8, 20283-20291.	8.0	39

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19	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. Nano Letters, 2020, 20, 6614-6622.	9.1	38
20	Hybrid plasmonic Auâ€“TiN vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. Nanoscale Advances, 2019, 1, 1045-1054.	4.6	37
21	Selfâ€Organized Epitaxial Vertically Aligned Nanocomposites with Longâ€Range Ordering Enabled by Substrate Nanotemplating. Advanced Materials, 2017, 29, 1606861.	21.0	36
22	Tailorable Au Nanoparticles Embedded in Epitaxial TiO₂ Thin Films for Tunable Optical Properties. ACS Applied Materials & Interfaces, 2018, 10, 32895-32902.	8.0	34
23	Selfâ€Assembled Agâ€“TiN Hybrid Plasmonic Metamaterial: Tailorable Tilted Nanopillar and Optical Properties. Advanced Optical Materials, 2019, 7, 1801180.	7.3	31
24	Strain-induced suppression of the miscibility gap in nanostructured Mg₂Siâ€“Mg₂Sn solid solutions. Journal of Materials Chemistry A, 2018, 6, 17559-17570.	10.3	30
25	Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. Applied Materials Today, 2019, 16, 204-212.	4.3	30
26	Vertically Aligned Nanocomposite BaTiO₃:YMnO₃ Thin Films with Room Temperature Multiferroic Properties toward Nanoscale Memory Devices. ACS Applied Nano Materials, 2018, 1, 2509-2514.	5.0	29
27	Self-Assembled Heteroepitaxial Oxide Nanocomposite for Photoelectrochemical Solar Water Oxidation. Chemistry of Materials, 2016, 28, 3017-3023.	6.7	28
28	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.	7.3	27
29	Broad Range Tuning of Phase Transition Property in VO₂ Through Metalâ€Ceramic Nanocomposite Design. Advanced Functional Materials, 2019, 29, 1903690.	14.9	26
30	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.	2.5	25
31	Novel Layered Supercell Structure from Bi₂AlMnO₆ for Multifunctionalities. Nano Letters, 2017, 17, 6575-6582.	9.1	25
32	Nitrideâ€Oxideâ€Metal Heterostructure with Selfâ€Assembled Coreâ€“Shell Nanopillar Arrays: Effect of Ordering on Magnetoâ€Optical Properties. Small, 2021, 17, e2007222.	10.0	25
33	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.	10.3	24
34	Roles of strain and domain boundaries on the phase transition stability of VO2 thin films. Applied Physics Letters, 2017, 111, .	3.3	24
35	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 2629-2636.	13.8	24
36	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.	2.6	22

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37	Strong perpendicular exchange bias in epitaxial La0.7Sr0.3MnO3:LaFeO3 nanocomposite thin films. APL Materials, 2016, 4, .	5.1	22
38	Strain tuning of ferroelectric and optical properties of rhombohedral-like BiFeO3 thin films on SrRuO3-buffered substrates. Materials Research Bulletin, 2019, 110, 120-125.	5.2	20
39	Carbon Nanotube Supported Amorphous MoS ₂ via Microwave Heating Synthesis for Enhanced Performance of Hydrogen Evolution Reaction. Energy Material Advances, 2021, 2021, .	11.0	20
40	Enhancing electrochemical performance of thin film lithium ion battery via introducing tilted metal nanopillars as effective current collectors. Nano Energy, 2020, 69, 104381.	16.0	18
41	Room temperature mechanical behaviour of a Ni-Fe multilayered material with modulated grain size distribution. Philosophical Magazine, 2014, 94, 3549-3559.	1.6	17
42	Tunable magnetic anisotropy of self-assembled Fe nanostructures within a La0.5Sr0.5FeO3 matrix. Applied Physics Letters, 2018, 112, .	3.3	16
43	Strain and property tuning of the 3D framed epitaxial nanocomposite thin films via interlayer thickness variation. Journal of Applied Physics, 2019, 125, .	2.5	16
44	Strongly Biasâ€Dependent Tunnel Magnetoresistance in Manganite Spin Filter Tunnel Junctions. Advanced Materials, 2015, 27, 3079-3084.	21.0	15
45	Tunable low-field magnetoresistance properties in (La0.7Ca0.3MnO3)1â^'x:(CeO2)x vertically aligned nanocomposite thin films. Applied Physics Letters, 2019, 115, 053103.	3.3	15
46	Tuning magnetic anisotropy in Coâ€“BaZrO₃ vertically aligned nanocomposites for memory device integration. Nanoscale Advances, 2019, 1, 4450-4458.	4.6	15
47	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.	4.6	15
48	Thermally Stable Auâ€“BaTiO₃ Nanoscale Hybrid Metamaterial for High-Temperature Plasmonic Applications. ACS Applied Nano Materials, 2020, 3, 1431-1437.	5.0	15
49	Self-assembled two-dimensional layered oxide supercells with modulated layer stacking and tunable physical properties. Materials Today Nano, 2019, 6, 100037.	4.6	14
50	Bidirectional tuning of phase transition properties in Ptâ€‰:â€‰VO₂nanocomposite thin films. Nanoscale, 2020, 12, 17886-17894.	5.6	13
51	Ultra-high heating rate effects on the sintering of ceramic nanoparticles: an inÂsitu TEM study. Materials Research Letters, 2021, 9, 373-381.	8.7	13
52	Achieving ferromagnetic insulating properties in La_{0.9}Ba_{0.1}MnO₃ thin films through nanoengineering. Nanoscale, 2020, 12, 9255-9265.	5.6	12
53	Thermal stability of amorphous SiOC/crystalline Fe composite. Philosophical Magazine, 2015, 95, 3876-3887.	1.6	11
54	Room temperature magnetodielectric effects in epitaxial hexaferrite BaFe10.2Sc1.8O19 thin film. Applied Physics Letters, 2017, 110, .	3.3	11

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55	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.	2.5	11
56	Novel layered Bi₃MoM_TO₉ (M_T = Mn, Fe, Co and Ni) thin films with tunable multifunctionalities. Nanoscale, 2020, 12, 5914-5921.	5.6	11
57	Tunable physical properties in BiAl_{1â^'x}Mn_xO₃ thin films with novel layered supercell structures. Nanoscale Advances, 2020, 2, 315-322.	4.6	10
58	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.	8.0	8
59	Interfacial Engineering Enabled Novel Bi-Based Layered Oxide Supercells with Modulated Microstructures and Tunable Physical Properties. Crystal Growth and Design, 2019, 19, 7088-7095.	3.0	6
60	AlN-based hybrid thin films with self-assembled plasmonic Au and Ag nanoinclusions. Applied Physics Letters, 2019, 114, .	3.3	6
61	Effective doping control in Sm-doped BiFeO₃ thin films via deposition temperature. RSC Advances, 2020, 10, 40229-40233.	3.6	5
62	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie, 2021, 133, 2661-2668.	2.0	5
63	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.	1.7	2