

Jie Jian

List of Publications by Year in descending order

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63
papers

2,154
citations

218381

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docs citations

63
times ranked

2884
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric relaxation, resonance and scaling behaviors in Sr ₃ Co ₂ Fe ₂₄ O ₄₁ hexaferrite. Scientific Reports, 2015, 5, 13645.	1.6	180
2	Strongly enhanced oxygen ion transport through samarium-doped CeO ₂ nanopillars in nanocomposite films. Nature Communications, 2015, 6, 8588.	5.8	145
3	Self-Assembled Epitaxial Au@Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. Nano Letters, 2016, 16, 3936-3943.	4.5	91
4	Continuous Tuning of Phase Transition Temperature in VO ₂ Thin Films on <i>c</i> -Cut Sapphire Substrates via Strain Variation. ACS Applied Materials & Interfaces, 2017, 9, 5319-5327.	4.0	87
5	Nanoscale stacking fault-assisted room temperature plasticity in flash-sintered TiO ₂ . Science Advances, 2019, 5, eaaw5519.	4.7	82
6	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. Nature Communications, 2016, 7, 12373.	5.8	81
7	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. Advanced Materials, 2019, 31, e1902492.	11.1	75
8	Ultra-smooth glassy graphene thin films for flexible transparent circuits. Science Advances, 2016, 2, e1601574.	4.7	59
9	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. Materials Horizons, 2018, 5, 536-544.	6.4	57
10	Nanoscale Artificial Plasmonic Lattice in Self-Assembled Vertically Aligned Nitride@Metal Hybrid Metamaterials. Advanced Science, 2018, 5, 1800416.	5.6	56
11	Self-Assembled Ordered Three-Phase Au@BaTiO ₃ @ZnO Vertically Aligned Nanocomposites Achieved by a Templating Method. Advanced Materials, 2019, 31, e1806529.	11.1	56
12	Sharp semiconductor-to-metal transition of VO ₂ thin films on glass substrates. Journal of Applied Physics, 2013, 114, .	1.1	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.	4.0	52
14	Very High Surface Area Mesoporous Thin Films of SrTiO ₃ Grown by Pulsed Laser Deposition and Application to Efficient Photoelectrochemical Water Splitting. Nano Letters, 2016, 16, 7338-7345.	4.5	51
15	Roles of grain boundaries on the semiconductor to metal phase transition of VO ₂ thin films. Applied Physics Letters, 2015, 107, .	1.5	48
16	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO ₃ :CoFe ₂ O ₄ vertically aligned nanocomposite thin films. Applied Physics Letters, 2014, 104, .	1.5	45
17	Textured metastable VO ₂ (B) thin films on SrTiO ₃ substrates with significantly enhanced conductivity. Applied Physics Letters, 2014, 104, .	1.5	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.	4.0	39

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19	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. Nano Letters, 2020, 20, 6614-6622.	4.5	38
20	Hybrid plasmonic Au/TiN vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. Nanoscale Advances, 2019, 1, 1045-1054.	2.2	37
21	Self-Organized Epitaxial Vertically Aligned Nanocomposites with Long-Range Ordering Enabled by Substrate Nanotemplating. Advanced Materials, 2017, 29, 1606861.	11.1	36
22	Tailorable Au Nanoparticles Embedded in Epitaxial TiO ₂ Thin Films for Tunable Optical Properties. ACS Applied Materials & Interfaces, 2018, 10, 32895-32902.	4.0	34
23	Self-Assembled Ag/TiN Hybrid Plasmonic Metamaterial: Tailorable Tilted Nanopillar and Optical Properties. Advanced Optical Materials, 2019, 7, 1801180.	3.6	31
24	Strain-induced suppression of the miscibility gap in nanostructured Mg ₂ Si/Mg ₂ Sn solid solutions. Journal of Materials Chemistry A, 2018, 6, 17559-17570.	5.2	30
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	Vertically Aligned Nanocomposite BaTiO ₃ :YMnO ₃ Thin Films with Room Temperature Multiferroic Properties toward Nanoscale Memory Devices. ACS Applied Nano Materials, 2018, 1, 2509-2514.	2.4	29
27	Self-Assembled Heteroepitaxial Oxide Nanocomposite for Photoelectrochemical Solar Water Oxidation. Chemistry of Materials, 2016, 28, 3017-3023.	3.2	28
28	Tunable Optical Properties in Self-Assembled Oxide-Metal Hybrid Thin Films via Au Phase Geometry Control: From Nanopillars to Nanodisks. Advanced Optical Materials, 2020, 8, 1901359.	3.6	27
29	Broad Range Tuning of Phase Transition Property in VO ₂ Through Metal-Ceramic Nanocomposite Design. Advanced Functional Materials, 2019, 29, 1903690.	7.8	26
30	Magnetic properties of (CoFe ₂ O ₄) _x :(CeO ₂) _{1-x} vertically aligned nanocomposites and their pinning properties in YBa ₂ Cu ₃ O _{7-δ} thin films. Journal of Applied Physics, 2014, 115, 123902.	1.1	25
31	Novel Layered Supercell Structure from Bi ₂ AlMnO ₆ for Multifunctionalities. Nano Letters, 2017, 17, 6575-6582.	4.5	25
32	Nitride-Oxide-Metal Heterostructure with Self-Assembled Core-Shell Nanopillar Arrays: Effect of Ordering on Magneto-Optical Properties. Small, 2021, 17, e2007222.	5.2	25
33	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. Journal of Materials Chemistry A, 2014, 2, 2283-2289.	5.2	24
34	Roles of strain and domain boundaries on the phase transition stability of VO ₂ thin films. Applied Physics Letters, 2017, 111, .	1.5	24
35	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 2629-2636.	7.2	24
36	Role of boundaries on low-field magnetotransport properties of La _{0.7} Sr _{0.3} MnO ₃ -based nanocomposite thin films. Journal of Materials Research, 2013, 28, 1707-1714.	1.2	22

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37	Strong perpendicular exchange bias in epitaxial La _{0.7} Sr _{0.3} MnO ₃ :LaFeO ₃ nanocomposite thin films. APL Materials, 2016, 4, .	2.2	22
38	Strain tuning of ferroelectric and optical properties of rhombohedral-like BiFeO ₃ thin films on SrRuO ₃ -buffered substrates. Materials Research Bulletin, 2019, 110, 120-125.	2.7	20
39	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
40	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
41	Room temperature mechanical behaviour of a Ni-Fe multilayered material with modulated grain size distribution. Philosophical Magazine, 2014, 94, 3549-3559.	0.7	17
42	Tunable magnetic anisotropy of self-assembled Fe nanostructures within a La _{0.5} Sr _{0.5} FeO ₃ matrix. Applied Physics Letters, 2018, 112, .	1.5	16
43	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
44	Strongly Bias-Dependent Tunnel Magnetoresistance in Manganite Spin Filter Tunnel Junctions. Advanced Materials, 2015, 27, 3079-3084.	11.1	15
45	Tunable low-field magnetoresistance properties in (La _{0.7} Ca _{0.3} MnO ₃) _{1-x} (CeO ₂) _x vertically aligned nanocomposite thin films. Applied Physics Letters, 2019, 115, 053103.	1.5	15
46	Tuning magnetic anisotropy in Co/BaZrO ₃ vertically aligned nanocomposites for memory device integration. Nanoscale Advances, 2019, 1, 4450-4458.	2.2	15
47	Vertically aligned nanocomposite (BaTiO ₃) _{0.8} /(La _{0.7} Sr _{0.3} MnO ₃) _{0.2} thin films with anisotropic multifunctionalities. Nanoscale Advances, 2020, 2, 3276-3283.		15
48	Thermally Stable Au/BaTiO ₃ Nanoscale Hybrid Metamaterial for High-Temperature Plasmonic Applications. ACS Applied Nano Materials, 2020, 3, 1431-1437.	2.4	15
49	Self-assembled two-dimensional layered oxide supercells with modulated layer stacking and tunable physical properties. Materials Today Nano, 2019, 6, 100037.	2.3	14
50	Bidirectional tuning of phase transition properties in Pt/VO ₂ nanocomposite thin films. Nanoscale, 2020, 12, 17886-17894.	2.8	13
51	Ultra-high heating rate effects on the sintering of ceramic nanoparticles: an <i>in situ</i> TEM study. Materials Research Letters, 2021, 9, 373-381.	4.1	13
52	Achieving ferromagnetic insulating properties in La _{0.9} Ba _{0.1} MnO ₃ thin films through nanoengineering. Nanoscale, 2020, 12, 9255-9265.	2.8	12
53	Thermal stability of amorphous SiO ₂ /crystalline Fe composite. Philosophical Magazine, 2015, 95, 3876-3887.	0.7	11
54	Room temperature magnetodielectric effects in epitaxial hexaferrite BaFe ₁₀ Sc _{1.8} O ₁₉ thin film. Applied Physics Letters, 2017, 110, .	1.5	11

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55	Kinetic instability of AlGaIn alloys during MBE growth under metal-rich conditions on m-plane GaN miscut towards the -c axis. <i>Journal of Applied Physics</i> , 2018, 123, 161581.	1.1	11
56	Novel layered Bi ₃ MoM _T O ₉ (M _T = Mn, Fe, Co and Ni) thin films with tunable multifunctionalities. <i>Nanoscale</i> , 2020, 12, 5914-5921.	2.8	11
57	Tunable physical properties in BiAl _{1-x} Mn _x O ₃ thin films with novel layered supercell structures. <i>Nanoscale Advances</i> , 2020, 2, 315-322.	2.2	10
58	Self-Assembled BaTiO ₃ -Au-Ag Low-Loss Hybrid Plasmonic Metamaterials with an Ordered Nano-Domino-like Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5390-5398.	4.0	8
59	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.	1.4	6
60	AlN-based hybrid thin films with self-assembled plasmonic Au and Ag nano-inclusions. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	6
61	Effective doping control in Sm-doped BiFeO ₃ thin films via deposition temperature. <i>RSC Advances</i> , 2020, 10, 40229-40233.	1.7	5
62	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie</i> , 2021, 133, 2661-2668.	1.6	5
63	Enhanced Flux Pinning Properties in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}/\text{CoFe}_2\text{O}_4/0.3\text{CeO}_2/0.7$ Multilayer Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-4.	1.1	2