

Xing Sun

List of Publications by Year in descending order

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54
papers

1,870
citations

257101

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all docs

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docs citations

54
times ranked

2514
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaled indium oxide transistors fabricated using atomic layer deposition. Nature Electronics, 2022, 5, 164-170.	13.1	98
2	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
3	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie, 2021, 133, 2661-2668.	1.6	5
4	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 2629-2636.	7.2	24
5	High-strength and tunable plasticity in sputtered Alâ€Cr alloys with multistage phase transformations. International Journal of Plasticity, 2021, 137, 102915.	4.1	9
6	Deposition pressure-induced microstructure control and plasmonic property tuning in hybrid ZnOâ€Ag_xAu_{1-x} thin films. Nanoscale Advances, 2021, 3, 2870-2878.	2.2	7
7	Creating Ferromagnetic Insulating La_{0.9}Ba_{0.1}MnO₃ Thin Films by Tuning Lateral Coherence Length. ACS Applied Materials & Interfaces, 2021, 13, 8863-8870.	4.0	3
8	Nanocompositeâ€Seeded Epitaxial Growth of Singleâ€Domain Lithium Niobate Thin Films for Surface Acoustic Wave Devices. Advanced Photonics Research, 2021, 2, 2000149.	1.7	8
9	Electrochromic Properties of Perovskite NdNiO₃ Thin Films for Smart Windows. ACS Applied Electronic Materials, 2021, 3, 1719-1731.	2.0	16
10	Ultrathin transparent Copper(I) oxide films grown by plasma-enhanced atomic layer deposition for Back-end-of-line p-Type transistors. Nano Express, 2021, 2, 020023.	1.2	3
11	Why In₂O₃ Can Make 0.7 nm Atomic Layer Thin Transistors. Nano Letters, 2021, 21, 500-506.	4.5	99
12	Core-shell metallic alloy nanopillars-in-dielectric hybrid metamaterials with magneto-plasmonic coupling. Materials Today, 2021, 51, 39-47.	8.3	14
13	Hierarchical nanotwins in single-crystal-like nickel with high strength and corrosion resistance produced<i>via</i> a hybrid technique. Nanoscale, 2020, 12, 1356-1365.	2.8	27
14	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
15	Strain Effects on the Growth of La_{0.7}Sr_{0.3}MnO₃ (LSMO)â€NiO Nanocomposite Thin Films via Substrate Control. ACS Omega, 2020, 5, 23793-23798.	1.6	5
16	Effective doping control in Sm-doped BiFeO₃ thin films <i>via</i> deposition temperature. RSC Advances, 2020, 10, 40229-40233.	1.7	5
17	Coupled solute effects enable anomalous high-temperature strength and stability in nanotwinned Al alloys. Acta Materialia, 2020, 200, 378-388.	3.8	19
18	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

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19	Self-organization of various ϵ -phase-separated nanostructures in a single chemical vapor deposition. Nano Research, 2020, 13, 1723-1732.	5.8	3
20	Spontaneous Ordering of Oxide-Oxide Epitaxial Vertically Aligned Nanocomposite Thin Films. Annual Review of Materials Research, 2020, 50, 229-253.	4.3	22
21	Plastic anisotropy and tension-compression asymmetry in nanotwinned Al-Fe alloys: An in-situ micromechanical investigation. International Journal of Plasticity, 2020, 132, 102760.	4.1	21
22	Strain-Driven In-plane Ordering in Vertically Aligned ZnO-Au Nanocomposites with Highly Correlated Metamaterial Properties. ACS Omega, 2020, 5, 2234-2241.	1.6	30
23	Vertical Strain-Driven Antiferromagnetic to Ferromagnetic Phase Transition in EuTiO_3 Nanocomposite Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 8513-8521.	4.0	14
24	Magnetic signatures of 120 K superconductivity at interfaces in La_2CuO_4 . Nanoscale, 2020, 12, 3157-3165.	2.8	6
25	Vertically Aligned Ag-Au Alloyed Nanopillars Embedded in ZnO as Nanoengineered Low-Loss Hybrid Plasmonic Metamaterials. Nano Letters, 2020, 20, 3778-3785.	4.5	20
26	Role of Interlayer in 3D Vertically Aligned Nanocomposite Frameworks with Tunable Magnetotransport Properties. Advanced Materials Interfaces, 2020, 7, 1901990.	1.9	7
27	Achieving ferromagnetic insulating properties in $\text{La}_{0.9}\text{Ba}_{0.1}\text{MnO}_3$ thin films through nanoengineering. Nanoscale, 2020, 12, 9255-9265.	2.8	12
28	Ultrafast measurements of polarization switching dynamics on ferroelectric and anti-ferroelectric hafnium zirconium oxide. Applied Physics Letters, 2019, 115, .	1.5	77
29	Tunable low-field magnetoresistance properties in $(\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3)_{1-x}(\text{CeO}_2)_x$ vertically aligned nanocomposite thin films. Applied Physics Letters, 2019, 115, 053103.	1.5	15
30	Broad Range Tuning of Phase Transition Property in VO_2 Through Metal-Ceramic Nanocomposite Design. Advanced Functional Materials, 2019, 29, 1903690.	7.8	26
31	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
32	Multiferroic vertically aligned nanocomposite with CoFe_2O_4 nanocones embedded in layered Bi_2WO_6 matrix. Materials Research Letters, 2019, 7, 418-425.	4.1	14
33	3D strain-induced superconductivity in La_2CuO_4 using a simple vertically aligned nanocomposite approach. Science Advances, 2019, 5, eaav5532.	4.7	31
34	Solar-Blind UV Photodetector Based on Atomic Layer-Deposited Cu_2O and Nanomembrane $\text{In}_2\text{Ga}_2\text{O}_3$ pn Oxide Heterojunction. ACS Omega, 2019, 4, 20756-20761.	1.6	35
35	Tuning magnetic anisotropy in Co-BaZrO_3 vertically aligned nanocomposites for memory device integration. Nanoscale Advances, 2019, 1, 4450-4458.	2.2	15
36	High temperature thermal and mechanical stability of high-strength nanotwinned Al alloys. Acta Materialia, 2019, 165, 142-152.	3.8	45

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37	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. <i>Materials Horizons</i> , 2018, 5, 536-544.	6.4	57
38	Microstructure, Magnetic, and Magnetoresistance Properties of La _{0.7} Sr _{0.3} MnO ₃ :CuO Nanocomposite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5779-5784.	4.0	24
39	Thermally tunable VO ₂ -SiO ₂ nanocomposite thin-film capacitors. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	4
40	Multifunctional La _{0.67} Sr _{0.33} MnO ₃ (LSMO) Thin Films Integrated on Mica Substrates toward Flexible Spintronics and Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42698-42705.	4.0	62
41	Tailorable Optical Response of Au@LiNbO ₃ Hybrid Metamaterial Thin Films for Optical Waveguide Applications. <i>Advanced Optical Materials</i> , 2018, 6, 1800510.	3.6	32
42	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.	1.4	33
43	Self-Organized Epitaxial Vertically Aligned Nanocomposites with Long-Range Ordering Enabled by Substrate Nanotemplating. <i>Advanced Materials</i> , 2017, 29, 1606861.	11.1	36
44	Self-assembled Co@BaZrO ₃ nanocomposite thin films with ultra-fine vertically aligned Co nanopillars. <i>Nanoscale</i> , 2017, 9, 7970-7976.	2.8	64
45	PCN-250 under Pressure: Sequential Phase Transformation and the Implications for MOF Densification. <i>Joule</i> , 2017, 1, 806-815.	11.7	65
46	Modulated Synthesis of Metal-Organic Frameworks through Tuning of the Initial Oxidation State of the Metal. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4368-4372.	1.0	14
47	Dependence of Photoelectrochemical Properties on Geometry Factors of Interconnected @Caterpillar-like@ZnO Networks. <i>Electrochimica Acta</i> , 2016, 222, 232-245.	2.6	15
48	Linker Installation: Engineering Pore Environment with Precisely Placed Functionalities in Zirconium MOFs. <i>Journal of the American Chemical Society</i> , 2016, 138, 8912-8919.	6.6	278
49	TiO ₂ Fibers: Tunable Polymorphic Phase Transformation and Electrochemical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3750-3756.	0.9	3
50	Understanding the Influence of Polypyrrole Coating over V ₂ O ₅ Nanofibers on Electrochemical Properties. <i>Electrochimica Acta</i> , 2015, 174, 563-573.	2.6	40
51	Morphology-tunable synthesis of ZnO nanoforest and its photoelectrochemical performance. <i>Nanoscale</i> , 2014, 6, 8769-8780.	2.8	141
52	Facile and Scalable Synthesis of @Caterpillar-like@ZnO Nanostructures with Enhanced Photoelectrochemical Water-Splitting Effect. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13467-13475.	1.5	54
53	Asymmetric supercapacitors with dominant pseudocapacitance based on manganese oxide nanoflowers in a neutral aqueous electrolyte. <i>RSC Advances</i> , 2013, 3, 24886.	1.7	9
54	Three-dimensional ZnO@MnO ₂ core@shell nanostructures for electrochemical energy storage. <i>Chemical Communications</i> , 2013, 49, 4456.	2.2	113