

Xing Sun

List of Publications by Year in descending order

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54
papers

1,870
citations

257101

24
h-index

264894

42
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54
all docs

54
docs citations

54
times ranked

2514
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Morphology-tunable synthesis of ZnO nanoforest and its photoelectrochemical performance. <i>Nanoscale</i> , 2014, 6, 8769-8780.	2.8	141
3	Three-dimensional ZnO@MnO ₂ core@shell nanostructures for electrochemical energy storage. <i>Chemical Communications</i> , 2013, 49, 4456.	2.2	113
4	Why In ₂ O ₃ Can Make 0.7 nm Atomic Layer Thin Transistors. <i>Nano Letters</i> , 2021, 21, 500-506.	4.5	99
5	Scaled indium oxide transistors fabricated using atomic layer deposition. <i>Nature Electronics</i> , 2022, 5, 164-170.	13.1	98
6	Ultrafast measurements of polarization switching dynamics on ferroelectric and anti-ferroelectric hafnium zirconium oxide. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	77
7	PCN-250 under Pressure: Sequential Phase Transformation and the Implications for MOF Densification. <i>Joule</i> , 2017, 1, 806-815.	11.7	65
8	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
9	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
10	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
11	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
12	High temperature thermal and mechanical stability of high-strength nanotwinned Al alloys. <i>Acta Materialia</i> , 2019, 165, 142-152.	3.8	45
13	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
14	Self-Organized Epitaxial Vertically Aligned Nanocomposites with Long-Range Ordering Enabled by Substrate Nanotemplating. <i>Advanced Materials</i> , 2017, 29, 1606861.	11.1	36
15	Solar-Blind UV Photodetector Based on Atomic Layer-Deposited Cu ₂ O and Nanomembrane $\text{In}^{2+}\text{-Ga}^{3+}$ pn Oxide Heterojunction. <i>ACS Omega</i> , 2019, 4, 20756-20761.	1.6	35
16	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
17	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
18	3D strain-induced superconductivity in La ₂ CuO ₄ using a simple vertically aligned nanocomposite approach. <i>Science Advances</i> , 2019, 5, eaav5532.	4.7	31

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19	Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. <i>Applied Materials Today</i> , 2019, 16, 204-212.	2.3	30
20	Strain-Driven In-plane Ordering in Vertically Aligned ZnO@Au Nanocomposites with Highly Correlated Metamaterial Properties. <i>ACS Omega</i> , 2020, 5, 2234-2241.	1.6	30
21	Hierarchical nanotwins in single-crystal-like nickel with high strength and corrosion resistance produced via a hybrid technique. <i>Nanoscale</i> , 2020, 12, 1356-1365.	2.8	27
22	Tunable Optical Properties in Self-Assembled Oxide-Metal Hybrid Thin Films via Au Phase Geometry Control: From Nanopillars to Nanodisks. <i>Advanced Optical Materials</i> , 2020, 8, 1901359.	3.6	27
23	Broad Range Tuning of Phase Transition Property in VO ₂ Through Metal-Ceramic Nanocomposite Design. <i>Advanced Functional Materials</i> , 2019, 29, 1903690.	7.8	26
24	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
25	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2629-2636.	7.2	24
26	Spontaneous Ordering of Oxide-Oxide Epitaxial Vertically Aligned Nanocomposite Thin Films. <i>Annual Review of Materials Research</i> , 2020, 50, 229-253.	4.3	22
27	Plastic anisotropy and tension-compression asymmetry in nanotwinned Al-Fe alloys: An in-situ micromechanical investigation. <i>International Journal of Plasticity</i> , 2020, 132, 102760.	4.1	21
28	Vertically Aligned Ag _x Au _{1-x} Alloyed Nanopillars Embedded in ZnO as Nanoengineered Low-Loss Hybrid Plasmonic Metamaterials. <i>Nano Letters</i> , 2020, 20, 3778-3785.	4.5	20
29	Coupled solute effects enable anomalous high-temperature strength and stability in nanotwinned Al alloys. <i>Acta Materialia</i> , 2020, 200, 378-388.	3.8	19
30	Multifunctional self-assembled BaTiO ₃ -Au nanocomposite thin films on flexible mica substrates with tunable optical properties. <i>Applied Materials Today</i> , 2020, 21, 100856.	2.3	17
31	Design of 3D Oxide-Metal Hybrid Metamaterial for Tailorable Light-Matter Interactions in Visible and Near-Infrared Region. <i>Advanced Optical Materials</i> , 2021, 9, .	3.6	17
32	Electrochromic Properties of Perovskite NdNiO ₃ Thin Films for Smart Windows. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1719-1731.	2.0	16
33	Dependence of Photoelectrochemical Properties on Geometry Factors of Interconnected @Caterpillar-like@ZnO Networks. <i>Electrochimica Acta</i> , 2016, 222, 232-245.	2.6	15
34	Tunable low-field magnetoresistance properties in (La _{0.7} Ca _{0.3} MnO ₃) _{1-x} (CeO ₂) _x vertically aligned nanocomposite thin films. <i>Applied Physics Letters</i> , 2019, 115, 053103.	1.5	15
35	Tuning magnetic anisotropy in Co-BaZrO ₃ vertically aligned nanocomposites for memory device integration. <i>Nanoscale Advances</i> , 2019, 1, 4450-4458.	2.2	15
36	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

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37	Multiferroic vertically aligned nanocomposite with CoFe ₂ O ₄ nanocones embedded in layered Bi ₂ WO ₆ matrix. <i>Materials Research Letters</i> , 2019, 7, 418-425.	4.1	14
38	Vertical Strain-Driven Antiferromagnetic to Ferromagnetic Phase Transition in EuTiO ₃ Nanocomposite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8513-8521.	4.0	14
39	Core-shell metallic alloy nanopillars-in-dielectric hybrid metamaterials with magneto-plasmonic coupling. <i>Materials Today</i> , 2021, 51, 39-47.	8.3	14
40	Achieving ferromagnetic insulating properties in La _{0.9} Ba _{0.1} MnO ₃ thin films through nanoengineering. <i>Nanoscale</i> , 2020, 12, 9255-9265.	2.8	12
41	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
42	High-strength and tunable plasticity in sputtered Al-Cr alloys with multistage phase transformations. <i>International Journal of Plasticity</i> , 2021, 137, 102915.	4.1	9
43	Nanocomposite-Seeded Epitaxial Growth of Single-Domain Lithium Niobate Thin Films for Surface Acoustic Wave Devices. <i>Advanced Photonics Research</i> , 2021, 2, 2000149.	1.7	8
44	Role of Interlayer in 3D Vertically Aligned Nanocomposite Frameworks with Tunable Magnetotransport Properties. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901990.	1.9	7
45	Deposition pressure-induced microstructure control and plasmonic property tuning in hybrid ZnO-Ag _x Au _{1-x} thin films. <i>Nanoscale Advances</i> , 2021, 3, 2870-2878.	2.2	7
46	Magnetic signatures of 120 K superconductivity at interfaces in La ₂ CuO ₄ . <i>Nanoscale</i> , 2020, 12, 3157-3165.	2.8	6
47	Strain Effects on the Growth of La _{0.7} Sr _{0.3} MnO ₃ (LSMO)-NiO Nanocomposite Thin Films via Substrate Control. <i>ACS Omega</i> , 2020, 5, 23793-23798.	1.6	5
48	Effective doping control in Sm-doped BiFeO ₃ thin films via deposition temperature. <i>RSC Advances</i> , 2020, 10, 40229-40233.	1.7	5
49	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie</i> , 2021, 133, 2661-2668.	1.6	5
50	Thermally tunable VO ₂ -SiO ₂ nanocomposite thin-film capacitors. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	4
51	TiO ₂ Fibers: Tunable Polymorphic Phase Transformation and Electrochemical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3750-3756.	0.9	3
52	Self-organization of various phase-separated nanostructures in a single chemical vapor deposition. <i>Nano Research</i> , 2020, 13, 1723-1732.	5.8	3
53	Creating Ferromagnetic Insulating La _{0.9} Ba _{0.1} MnO ₃ Thin Films by Tuning Lateral Coherence Length. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8863-8870.	4.0	3
54	Ultrathin transparent Copper(I) oxide films grown by plasma-enhanced atomic layer deposition for Back-end-of-line p-Type transistors. <i>Nano Express</i> , 2021, 2, 020023.	1.2	3