

Jijie Huang

List of Publications by Year in descending order

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74
papers

1,799
citations

257101

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301761

39
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74
all docs

74
docs citations

74
times ranked

1700
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional nanofluidics. <i>Science</i> , 2016, 351, 1395-1396.	6.0	260
2	Self-Assembled Epitaxial Au@Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. <i>Nano Letters</i> , 2016, 16, 3936-3943.	4.5	91
3	New epitaxy paradigm in epitaxial self-assembled oxide vertically aligned nanocomposite thin films. <i>Journal of Materials Research</i> , 2017, 32, 4054-4066.	1.2	86
4	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
5	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
6	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
7	Nanoscale Artificial Plasmonic Lattice in Self-Assembled Vertically Aligned Nitride@Metal Hybrid Metamaterials. <i>Advanced Science</i> , 2018, 5, 1800416.	5.6	56
8	A high-performance bionic pressure memory device based on piezo-OLED and piezo-memristor as luminescence-fish neuromorphic tactile system. <i>Nano Energy</i> , 2020, 77, 105120.	8.2	41
9	High-Performance and Reliable Silver Nanotube Networks for Efficient and Large-Scale Transparent Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15525-15535.	4.0	41
10	Single-Layer MoS ₂ Mechanical Resonant Piezo-Sensors with High Mass Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41991-41998.	4.0	39
11	Hybrid plasmonic Au@TiN vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. <i>Nanoscale Advances</i> , 2019, 1, 1045-1054.	2.2	37
12	Self-Organized Epitaxial Vertically Aligned Nanocomposites with Long-Range Ordering Enabled by Substrate Nanotemplating. <i>Advanced Materials</i> , 2017, 29, 1606861.	11.1	36
13	Exchange Bias in a La _{0.67} Sr _{0.33} MnO ₃ /NiO Heterointerface Integrated on a Flexible Mica Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39920-39925.	4.0	36
14	Self-assembled vertically aligned Ni nanopillars in CeO ₂ with anisotropic magnetic and transport properties for energy applications. <i>Nanoscale</i> , 2018, 10, 17182-17188.	2.8	34
15	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
16	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
17	Self-Assembled Ag@TiN Hybrid Plasmonic Metamaterial: Tailorable Tilted Nanopillar and Optical Properties. <i>Advanced Optical Materials</i> , 2019, 7, 1801180.	3.6	31
18	Plasmonic Cu nanostructures in ZnO as hyperbolic metamaterial thin films. <i>Materials Today Nano</i> , 2019, 8, 100052.	2.3	30

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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	Vertically Aligned Nanocomposite BaTiO ₃ :YMnO ₃ Thin Films with Room Temperature Multiferroic Properties toward Nanoscale Memory Devices. <i>ACS Applied Nano Materials</i> , 2018, 1, 2509-2514.	2.4	29
21	Microscopic adaptation of BaHfO ₃ and Y ₂ O ₃ artificial pinning centers for strong and isotropic pinning landscape in YBa ₂ Cu ₃ O _{7-x} thin films. <i>Superconductor Science and Technology</i> , 2018, 31, 025008.	1.8	27
22	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
23	Multifunctional Metal-Oxide Nanocomposite Thin Film with Plasmonic Au Nanopillars Embedded in Magnetic La _{0.67} Sr _{0.33} MnO ₃ Matrix. <i>Nano Letters</i> , 2021, 21, 1032-1039.	4.5	26
24	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-x} thin films. <i>Journal of Applied Physics</i> , 2014, 115, 123902.	1.1	25
25	A simplified superconducting coated conductor design with Fe-based superconductors on glass and flexible metallic substrates. <i>Journal of Alloys and Compounds</i> , 2015, 647, 380-385.	2.8	25
26	Novel Layered Supercell Structure from Bi ₂ AlMnO ₆ for Multifunctionalities. <i>Nano Letters</i> , 2017, 17, 6575-6582.	4.5	25
27	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
28	Tailoring physical functionalities of complex oxides by vertically aligned nanocomposite thin-film design. <i>MRS Bulletin</i> , 2021, 46, 159-167.	1.7	23
29	Strong perpendicular exchange bias in epitaxial La _{0.7} Sr _{0.3} MnO ₃ :LaFeO ₃ nanocomposite thin films. <i>APL Materials</i> , 2016, 4, .	2.2	22
30	Probing the effect of interface on vortex pinning efficiency of one-dimensional BaZrO ₃ and BaHfO ₃ artificial pinning centers in YBa ₂ Cu ₃ O _{7-x} thin films. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	22
31	60Ånm Pixel-size pressure piezo-memory system as ultrahigh-resolution neuromorphic tactile sensor for in-chip computing. <i>Nano Energy</i> , 2021, 87, 106190.	8.2	21
32	Transformational dynamics of BZO and BHO nanorods imposed by Y ₂ O ₃ nanoparticles for improved isotropic pinning in YBa ₂ Cu ₃ O _{7-x} thin films. <i>AIP Advances</i> , 2017, 7, .	0.6	20
33	Effective magnetic pinning schemes for enhanced superconducting property in high temperature superconductor YBa ₂ Cu ₃ O _{7-x} : a review. <i>Superconductor Science and Technology</i> , 2017, 30, 114004.	1.8	19
34	3D Hybrid Plasmonic Framework with Au Nanopillars Embedded in Nitride Multilayers Integrated on Si. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000493.	1.9	18
35	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
36	Monolayer MXene Nanoelectromechanical Piezo-Resonators with 0.2 Zeptogram Mass Resolution. <i>Advanced Science</i> , 2022, 9, .	5.6	17

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37	Enhanced superconducting properties of YBa ₂ Cu ₃ O _{7-δ} thin film with magnetic nanolayer additions. <i>Ceramics International</i> , 2016, 42, 12202-12209.	2.3	16
38	Tunable magnetic anisotropy of self-assembled Fe nanostructures within a La _{0.5} Sr _{0.5} FeO ₃ matrix. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	16
39	Strain and property tuning of the 3D framed epitaxial nanocomposite thin films via interlayer thickness variation. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	16
40	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
41	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
42	Thermally Stable Au/BaTiO ₃ Nanoscale Hybrid Metamaterial for High-Temperature Plasmonic Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 1431-1437.	2.4	15
43	Upper Critical Field and Kondo Effects in Fe(Te _{0.9} Se _{0.1}) Thin Films by Pulsed Field Measurements. <i>Scientific Reports</i> , 2016, 6, 21469.	1.6	14
44	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
45	High-Dynamic-Range Pressure Mapping Interactions by Dual Piezo-Phototronic Transistor with Piezo-Nanowire Channels and Piezo-OLED Gates. <i>Advanced Functional Materials</i> , 2020, 30, 2004724.	7.8	14
46	Core-shell metallic alloy nanopillars-in-dielectric hybrid metamaterials with magneto-plasmonic coupling. <i>Materials Today</i> , 2021, 51, 39-47.	8.3	14
47	Room temperature magnetodielectric effects in epitaxial hexaferrite BaFe _{10.2} Sc _{1.8} O ₁₉ thin film. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	11
48	Li ₂ MnO ₃ Thin Films with Tilted Domain Structure as Cathode for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 3461-3468.	2.5	11
49	Freestanding La _{0.7} Sr _{0.3} MnO ₃ :NiO vertically aligned nanocomposite thin films for flexible perpendicular interfacial exchange coupling. <i>Materials Research Letters</i> , 2022, 10, 287-294.	4.1	11
50	Epitaxial TiN/MgO multilayers with ultrathin TiN and MgO layers as hyperbolic metamaterials in visible region. <i>Materials Today Physics</i> , 2021, 16, 100316.	2.9	10
51	Strategies To Construct <i>n</i> -Type Si-Based Heterojunctions for Photoelectrochemical Water Oxidation. , 2022, 4, 779-804.		10
52	Magnetic (CoFe ₂ O ₄) _{0.1} (CeO ₂) _{0.9} nanocomposite as effective pinning centers in FeSe _{0.1} Te _{0.9} thin films. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 025702.	0.7	9
53	Two-Phase Room-Temperature Multiferroic Nanocomposite with BiMnO ₃ -Tilted Nanopillars in the Bi ₂ WO ₆ -xMn _x O ₆ Matrix. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26261-26267.	4.0	9
54	Novel vertically aligned nanocomposite of Bi ₂ WO ₆ -Co ₃ O ₄ with room-temperature multiferroic and anisotropic optical response. <i>Nano Research</i> , 0, , 1.	5.8	9

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55	Superconducting Iron Chalcogenide Thin Films Integrated on Flexible Mica Substrates. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	8
56	Tailorable Fe nanostructures and magnetic anisotropy in $(\text{La}_{0.5}\text{Sr}_{0.5}\text{FeO}_3)_{1-x}\text{Fex}$ thin films integrated on SrTiO ₃ and silicon substrates. Materials Today Advances, 2020, 8, 100112.	2.5	8
57	Multiferroic thin film via SrRuO ₃ –BaTiO ₃ vertically aligned nanocomposite design. Applied Physics Letters, 2020, 117, .	1.5	8
58	Enhanced Flux Pinning Properties of YBCO Thin Films With Various Pinning Landscapes. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	7
59	Comparison Study of the Flux Pinning Enhancement of $\text{YBa}_{2-x}\text{Cu}_{3-x}\text{O}_{7-\delta}$ Thin Films With BaHfO_3 + Y_{2-x}O_3 Single- and Mixed-Phase Additions. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	7
60	Role of Interlayer in 3D Vertically Aligned Nanocomposite Frameworks with Tunable Magnetotransport Properties. Advanced Materials Interfaces, 2020, 7, 1901990.	1.9	7
61	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
62	Room-Temperature Ferroelectric $\text{LiNb}_6\text{Ba}_5\text{Ti}_4\text{O}_{30}$ Spinel Phase in a Nanocomposite Thin Film Form for Nonlinear Photonics. ACS Applied Materials & Interfaces, 2020, 12, 23076-23083.	4.0	6
63	Double-Exchange Bias Modulation under Horizontal and Perpendicular Field Directions by 3D Nanocomposite Design. ACS Applied Materials & Interfaces, 2021, 13, 50141-50148.	4.0	6
64	High-performance fully-stretchable solid-state lithium-ion battery with a nanowire-network configuration and crosslinked hydrogel. Journal of Materials Chemistry A, 2022, 10, 11562-11573.	5.2	6
65	Effective doping control in Sm-doped BiFeO_3 thin films <i>via</i> deposition temperature. RSC Advances, 2020, 10, 40229-40233.	1.7	5
66	Metal-Nitride nanocomposite thin film of nanomaze-like Cu embedded in TiN. Materials Letters, 2021, 294, 129780.	1.3	4
67	Integration of Self-Assembled BaZrO_3 -Co Vertically Aligned Nanocomposites on Mica Substrates toward Flexible Spintronics. Crystal Growth and Design, 2022, 22, 718-725.	1.4	4
68	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. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	2
69	Multifunctional Cu–BaTiO ₃ nanocomposite thin film fabricated via pulsed laser deposition. Ceramics International, 2020, 46, 25817-25821.	2.3	1
70	Exchange Bias Effect in $\text{LaFeO}_3:\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ Composite Thin Films. Coatings, 2021, 11, 1125.	1.2	1
71	Flexible $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3:\text{ZnO}$ Nanocomposite Thin Films Integrated on Mica. Frontiers in Materials, 2022, 9, .	1.2	1
72	Si integration of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3:\text{BiFeO}_3$ nanocomposite thin films with strong exchange bias coupling. Applied Physics Letters, 2022, 121, 022403.	1.5	1

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73	Industrial pulsed laser deposition for ultra-fast growth of high-temperature superconducting thin films with nanostructured pinning centers. Superconductor Science and Technology, 2021, 34, 080501.	1.8	0
74	Interface superconductivity in PLD grown FeSe/SrTiO3 heterostructure. Superconductor Science and Technology, 0, , .	1.8	0