

Ji-Yan Dai

List of Publications by Year in descending order

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329
papers

11,470
citations

34016

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40881

93
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349
all docs

349
docs citations

349
times ranked

14823
citing authors

#	ARTICLE	IF	CITATIONS
1	A nanotube-based field-emission flat panel display. Applied Physics Letters, 1998, 72, 2912-2913.	1.5	637
2	Association between alcohol and cardiovascular disease: Mendelian randomisation analysis based on individual participant data. BMJ, The, 2014, 349, g4164-g4164.	3.0	528
3	Ultraviolet lasing in resonators formed by scattering in semiconductor polycrystalline films. Applied Physics Letters, 1998, 73, 3656-3658.	1.5	475
4	Field emission from nanotube bundle emitters at low fields. Applied Physics Letters, 1997, 70, 3308-3310.	1.5	409
5	Broad temperature plateau for high ZTs in heavily doped p-type SnSe single crystals. Energy and Environmental Science, 2016, 9, 454-460.	15.6	396
6	Field-Effect Transistors Based on Amorphous Black Phosphorus Ultrathin Films by Pulsed Laser Deposition. Advanced Materials, 2015, 27, 3748-3754.	11.1	274
7	High-sensitivity fiber-tip pressure sensor with graphene diaphragm. Optics Letters, 2012, 37, 2493.	1.7	268
8	Enhancement of thermal stability of NiSi films on (100)Si and (111)Si by Pt addition. Applied Physics Letters, 1999, 75, 1736-1738.	1.5	250
9	Hierarchical Porous Plasmonic Metamaterials for Reproducible Ultrasensitive Surface-Enhanced Raman Spectroscopy. Advanced Materials, 2015, 27, 1090-1096.	11.1	193
10	Second harmonic generation in laser ablated zinc oxide thin films. Applied Physics Letters, 1998, 73, 572-574.	1.5	173
11	Giant tunnelling electroresistance in metal/ferroelectric/semiconductor tunnel junctions by engineering the Schottky barrier. Nature Communications, 2017, 8, 15217.	5.8	165
12	Determination of the optical constants of zinc oxide thin films by spectroscopic ellipsometry. Applied Physics Letters, 1998, 72, 3261-3263.	1.5	162
13	Plasmonic enhancement and polarization dependence of nonlinear upconversion emissions from single gold nanorod@SiO ₂ @CaF ₂ :Yb ³⁺ ,Er ³⁺ hybrid core-shell satellite nanostructures. Light: Science and Applications, 2017, 6, e16217-e16217.	7.7	155
14	Synthesis and piezoresponse of highly ordered Pb(Zr _{0.53} Ti _{0.47})O ₃ nanowire arrays. Applied Physics Letters, 2004, 85, 4190-4192.	1.5	151
15	Piezo-Phototronic Effect-Induced Dual-Mode Light and Ultrasound Emissions from ZnS:Mn/PMN-PT Thin-Film Structures. Advanced Materials, 2012, 24, 1729-1735.	11.1	142
16	Porous platinum nanowire arrays for direct ethanol fuel cell applications. Chemical Communications, 2009, , 195-197.	2.2	131
17	A method for synthesizing large quantities of carbon nanotubes and encapsulated copper nanowires. Applied Physics Letters, 1996, 69, 345-347.	1.5	127
18	Synthesis and ferroelectric properties of multiferroic BiFeO ₃ nanotube arrays. Applied Physics Letters, 2005, 87, 143102.	1.5	118

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19	Charge transport, optical transparency, microstructure, and processing relationships in transparent conductive indium-zinc oxide films grown by low-pressure metal-organic chemical vapor deposition. <i>Applied Physics Letters</i> , 1998, 73, 327-329.	1.5	102
20	How Graphene Islands Are Unidirectionally Aligned on the Ge(110) Surface. <i>Nano Letters</i> , 2016, 16, 3160-3165.	4.5	92
21	A self-powered organolead halide perovskite single crystal photodetector driven by a DVD-based triboelectric nanogenerator. <i>Journal of Materials Chemistry C</i> , 2016, 4, 630-636.	2.7	87
22	Tuning the Morphology and Chiroptical Properties of Discrete Gold Nanorods with Amino Acids. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16452-16457.	7.2	86
23	Bifunctional Au@Pt core-shell nanostructures for in situ monitoring of catalytic reactions by surface-enhanced Raman scattering spectroscopy. <i>Nanoscale</i> , 2014, 6, 9063-9070.	2.8	81
24	Hydrothermal synthesis of oriented ZnO nanobelts and their temperature dependent photoluminescence. <i>Chemical Physics Letters</i> , 2004, 393, 17-21.	1.2	79
25	Real-Time Observation of the Electrode-Size-Dependent Evolution Dynamics of the Conducting Filaments in a SiO ₂ Layer. <i>ACS Nano</i> , 2017, 11, 4097-4104.	7.3	79
26	Highly Sensitive Gas Sensor by the LaAlO ₃ /SrTiO ₃ Heterostructure with Pd Nanoparticle Surface Modulation. <i>Advanced Materials</i> , 2014, 26, 5962-5968.	11.1	78
27	High thermoelectric performance of superionic argyrodite compound Ag ₈ SnSe ₆ . <i>Journal of Materials Chemistry C</i> , 2016, 4, 5806-5813.	2.7	77
28	Interfacial reactions on annealing Cu/Al multilayer thin films. <i>Journal of Applied Physics</i> , 1993, 74, 6165-6169.	1.1	76
29	Lead-free piezoelectric single crystal based 1D composites for ultrasonic transducer applications. <i>Sensors and Actuators A: Physical</i> , 2012, 182, 95-100.	2.0	73
30	High Performance Relaxor-Based Ferroelectric Single Crystals for Ultrasonic Transducer Applications. <i>Sensors</i> , 2014, 14, 13730-13758.	2.1	73
31	The effect of magnetic nanoparticles on the morphology, ferroelectric, and magnetoelectric behaviors of CFO/P(VDF-TrFE) 0D nanocomposites. <i>Journal of Applied Physics</i> , 2009, 105, 054102.	1.1	72
32	Modulating the Electrical Transport in the Two-Dimensional Electron Gas at $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures by Interfacial Flexoelectricity. <i>Physical Review Letters</i> , 2019, 122, 257601.	2.9	72
33	Polytypoid structures in annealed In ₂ O ₃ -ZnO films. <i>Applied Physics Letters</i> , 1998, 73, 2585-2587.	1.5	71
34	Substrate orientation-induced epitaxial growth of face centered cubic Mo ₂ C superconductive thin film. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10822-10827.	2.7	71
35	Interband Absorption Enhanced Optical Activity in Discrete Au@Ag Core-Shell Nanocuboids: Probing Extended Helical Conformation of Chemisorbed Cysteine Molecules. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1283-1288.	7.2	70
36	Current rectifying and resistive switching in high density BiFeO ₃ nanocapacitor arrays on Nb-SrTiO ₃ substrates. <i>Scientific Reports</i> , 2015, 5, 9680.	1.6	68

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37	Panchromatic thin perovskite solar cells with broadband plasmonic absorption enhancement and efficient light scattering management by Au@Ag core-shell nanocuboids. <i>Nano Energy</i> , 2017, 41, 654-664.	8.2	68
38	Interband Absorption Enhanced Optical Activity in Discrete Au@Ag Core-Shell Nanocuboids: Probing Extended Helical Conformation of Chemisorbed Cysteine Molecules. <i>Angewandte Chemie</i> , 2017, 129, 1303-1308.	1.6	64
39	Memory effect and retention property of Ge nanocrystal embedded Hf-aluminate high-k gate dielectric. <i>Nanotechnology</i> , 2006, 17, 1202-1206.	1.3	61
40	Piezoresponse and ferroelectric properties of lead-free [Bi _{0.5} (Na _{0.7} K _{0.2} Li _{0.1}) _{0.5}]TiO ₃ thin films by pulsed laser deposition. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	61
41	Vacuum electron field emission from SnO ₂ nanowhiskers synthesized by thermal evaporation. <i>Nanotechnology</i> , 2004, 15, 1424-1427.	1.3	60
42	Growth and characterization of Hf-aluminate high-k gate dielectric ultrathin films with equivalent oxide thickness less than 10 Å.... <i>Journal of Applied Physics</i> , 2003, 93, 3665-3667.	1.1	58
43	Nanoscale ferroelectric tunnel junctions based on ultrathin BaTiO ₃ film and Ag nanoelectrodes. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	58
44	ITO/Au/ITO Sandwich Structure for Near-Infrared Plasmonics. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15743-15752.	4.0	58
45	Ferroelectric-Driven Performance Enhancement of Graphene Field-Effect Transistors Based on Vertical Tunneling Heterostructures. <i>Advanced Materials</i> , 2016, 28, 10048-10054.	11.1	58
46	Fabrication and performance of endoscopic ultrasound radial arrays based on PMN-PT single crystal/epoxy 1-3 composite. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 477-484.	1.7	57
47	Synthesis of carbon-encapsulated nanowires using polycyclic aromatic hydrocarbon precursors. <i>Chemical Physics Letters</i> , 1996, 258, 547-553.	1.2	56
48	Coherent island formation of Cu ₂ O films grown by chemical vapor deposition on MgO(110). <i>Journal of Materials Research</i> , 2001, 16, 2408-2414.	1.2	55
49	Palladium Nanoparticle Enhanced Giant Photoresponse at LaAlO ₃ /SrTiO ₃ Two-Dimensional Electron Gas Heterostructures. <i>ACS Nano</i> , 2013, 7, 8673-8679.	7.3	55
50	Temperature-dependent and polarization-tuned resistive switching in Au/BiFeO ₃ /SrRuO ₃ junctions. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	55
51	Piezo-Electrocatalysis for CO ₂ Reduction Driven by Vibration. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	55
52	Discovery of log-periodic oscillations in ultraquantum topological materials. <i>Science Advances</i> , 2018, 4, eaau5096.	4.7	54
53	Dopant Induced Impurity Bands and Carrier Concentration Control for Thermoelectric Enhancement in p-Type Cr ₂ Ge ₂ Te ₆ . <i>Chemistry of Materials</i> , 2017, 29, 7401-7407.	3.2	53
54	Twin Engineering in Solution-Synthesized Nonstoichiometric Cu ₅ FeS ₄ Icosahedral Nanoparticles for Enhanced Thermoelectric Performance. <i>Advanced Functional Materials</i> , 2018, 28, 1705117.	7.8	53

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55	Plasma-enhanced pulsed laser deposition of single-crystalline $M_{1-x}C_x$ ultrathin superconducting films. <i>Journal of Applied Physics</i> , 2010, 107, 104105.	0.9	53
56	Interfacial engineering and coupling of electric and magnetic properties in $Pb(Zr_{0.53}Ti_{0.47})O_3/CoFe_2O_4$ multiferroic epitaxial multilayers. <i>Journal of Applied Physics</i> , 2010, 107, 104105.	1.1	52
57	Defect states and charge trapping characteristics of HfO_2 films for high performance nonvolatile memory applications. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	51
58	Enhanced resistive switching effect in Ag nanoparticle embedded $BaTiO_3$ thin films. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	50
59	In-situ synthesized TiB_2 toughened SiC . <i>Journal of the European Ceramic Society</i> , 1996, 16, 409-412.	2.8	49
60	Effect of a microstructure on the formation of self-assembled laser cavities in polycrystalline ZnO . <i>Journal of Applied Physics</i> , 2001, 90, 1663-1665.	1.1	49
61	In situ SERS monitoring of photocatalytic organic decomposition using recyclable TiO_2 -coated Ag nanowire arrays. <i>Applied Surface Science</i> , 2014, 301, 351-357.	3.1	49
62	Preparation of epitaxial hexagonal $YMnO_3$ thin films and observation of ferroelectric vortex domains. <i>Npj Quantum Materials</i> , 2016, 1, .	1.8	49
63	Epitaxial growth of yttrium-stabilized HfO_2 high-k gate dielectric thin films on Si. <i>Journal of Applied Physics</i> , 2003, 94, 912-915.	1.1	48
64	Memory effects of carbon nanotubes as charge storage nodes for floating gate memory applications. <i>Applied Physics Letters</i> , 2006, 88, 113104.	1.5	47
65	A high performance triboelectric nanogenerator for self-powered non-volatile ferroelectric transistor memory. <i>Nanoscale</i> , 2015, 7, 17306-17311.	2.8	46
66	On the $NiSi$ phase transformation with/without native oxide. <i>Microelectronic Engineering</i> , 2000, 51-52, 583-594.	1.1	45
67	$PMN-PT$ single crystal focusing transducer fabricated using a mechanical dimpling technique. <i>Ultrasonics</i> , 2012, 52, 20-24.	2.1	45
68	Self-Powered Ultrabroadband Photodetector Monolithically Integrated on a $PMN-PT$ Ferroelectric Single Crystal. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32934-32939.	4.0	45
69	Quantitative SERS detection of low-concentration aromatic polychlorinated biphenyl-77 and 2,4,6-trinitrotoluene. <i>Journal of Hazardous Materials</i> , 2014, 280, 706-712.	6.5	44
70	Flexoelectric Thin-Film Photodetectors. <i>Nano Letters</i> , 2021, 21, 2946-2952.	4.5	44
71	Self-powered flat panel displays enabled by motion-driven alternating current electroluminescence. <i>Nano Energy</i> , 2016, 20, 48-56.	8.2	43
72	Multiple matching scheme for broadband $0.72Pb(Mg_{1/3}Nb_{2/3})O_3 \sim 0.28PbTiO_3$ single crystal phased-array transducer. <i>Journal of Applied Physics</i> , 2009, 105, 94908.	1.1	42

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73	Development of a 20-MHz wide-bandwidth PMN-PT single crystal phased-array ultrasound transducer. <i>Ultrasonics</i> , 2017, 73, 181-186.	2.1	42
74	Synthesis and memory effect study of Ge nanocrystals embedded in LaAlO ₃ high-k dielectrics. <i>Applied Physics Letters</i> , 2005, 86, 203111.	1.5	40
75	Self-organized Ge nanocrystals embedded in HfAlO fabricated by pulsed-laser deposition and application to floating gate memory. <i>Applied Physics Letters</i> , 2005, 86, 013110.	1.5	40
76	Comparison of interfacial and electrical characteristics of HfO ₂ and HfAlO high-k dielectrics on compressively strained Si _{1-x} Ge _x . <i>Applied Physics Letters</i> , 2006, 88, 182905.	1.5	40
77	Ultra rapid fabrication of p-type Li-doped Mg ₂ Si _{0.4} Sn _{0.6} synthesized by unique melt spinning method. <i>Scripta Materialia</i> , 2016, 115, 52-56.	2.6	40
78	Effect of thermomechanical treatment on the two-way shape memory effect of NiTi alloy spring. <i>Materials Letters</i> , 2002, 54, 55-61.	1.3	39
79	Enhanced thermoelectric properties of SnSe thin films grown by pulsed laser glancing-angle deposition. <i>Journal of Materiomics</i> , 2017, 3, 293-298.	2.8	39
80	Modulated Excitation Imaging System for Intravascular Ultrasound. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 1935-1942.	2.5	39
81	A Portable Ultrasound System for Non-Invasive Ultrasonic Neuro-Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 2509-2515.	2.7	38
82	Magnetoelectric coupling in CoFe ₂ O ₄ /SrRuO ₃ /Pb(Zr _{0.52} Ti _{0.48})O ₃ heteroepitaxial thin film structure. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	37
83	Polar Liquid Molecule Induced Transport Property Modulation at LaAlO ₃ /SrTiO ₃ Heterointerface. <i>Advanced Materials</i> , 2012, 24, 2598-2602.	11.1	37
84	Maximizing surface-enhanced Raman scattering sensitivity of surfactant-free Ag-Fe ₃ O ₄ nanocomposites through optimization of silver nanoparticle density and magnetic self-assembly. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	37
85	Thermoelectric property studies on Cu Bi ₂ Se ₂ with nano-scale precipitates Bi ₂ S ₃ . <i>Nano Energy</i> , 2015, 12, 447-456.	8.2	37
86	A novel nanostructure and multiferroic properties in Pb(Zr _{0.52} Ti _{0.48})O ₃ /CoFe ₂ O ₄ nanocomposite films grown by pulsed-laser deposition. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 235405.	1.3	36
87	Multiferroism in orientational engineered (La, Mn) co-substituted BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	35
88	Study of interfacial reaction and its impact on electric properties of HfAl ₂ O high-k gate dielectric thin films grown on Si. <i>Applied Physics Letters</i> , 2003, 82, 2419-2421.	1.5	34
89	Spontaneous recovery of hydrogen-degraded TiO ₂ ceramic capacitors. <i>Applied Physics Letters</i> , 2004, 84, 103-105.	1.5	34
90	Zinc/ZnO core-shell hexagonal nanodisk dendrites and their photoluminescence. <i>Acta Materialia</i> , 2007, 55, 5039-5044.	3.8	34

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91	Enhanced Metal-Insulator Transition Performance in Scalable Vanadium Dioxide Thin Films Prepared Using a Moisture-Assisted Chemical Solution Approach. ACS Applied Materials & Interfaces, 2018, 10, 8341-8348.	4.0	34
92	Magnetotransport Properties of Layered Topological Material ZrTe ₂ Thin Film. ACS Nano, 2019, 13, 6008-6016.	7.3	33
93	Broad-band and high-temperature ultrasonic transducer fabricated using a Pb(In _{1/2} Nb _{1/2})-Pb(Mg _{1/3} Nb _{2/3})-PbTiO ₃ single crystal/epoxy 1 st composite. Review of Scientific Instruments, 2011, 82, 055110.	0.6	32
94	In situ and room-temperature synthesis of ultra-long Ag nanoparticles-decorated Ag molybdate nanowires as high-sensitivity SERS substrates. Applied Surface Science, 2013, 287, 404-410.	3.1	32
95	Observation of Exotic Domain Structures in Ferroelectric Nanodot Arrays Fabricated via a Universal Nanopatterning Approach. ACS Applied Materials & Interfaces, 2017, 9, 37219-37226.	4.0	32
96	Novel multiferroicity in GdMnO ₃ thin films with self-assembled nano-twinned domains. Scientific Reports, 2014, 4, 7019.	1.6	31
97	Anodic aluminum oxide-epoxy composite acoustic matching layers for ultrasonic transducer application. Ultrasonics, 2016, 70, 29-33.	2.1	31
98	Formation of cobalt silicide spikes in 0.18 μ m complementary metal oxide semiconductor process. Applied Physics Letters, 2001, 78, 3091-3093.	1.5	30
99	Effects of AlO _x -cap layer on the luminescence and photoconductivity of ZnO thin films. Applied Physics Letters, 2005, 86, 152116.	1.5	29
100	Synthesis and characterization of highly ordered BiFeO ₃ multiferroic nanowire arrays. Progress in Solid State Chemistry, 2005, 33, 147-151.	3.9	29
101	Ferroelectric, piezoelectric, and leakage current properties of (K _{0.48} Na _{0.48} Li _{0.04})(Nb _{0.775} Ta _{0.225})O ₃ thin films grown by pulsed laser deposition. Applied Physics Letters, 2011, 98, .	1.5	29
102	Large electroresistance and tunable photovoltaic properties of ferroelectric nanoscale capacitors based on ultrathin super-tetragonal BiFeO ₃ films. Journal of Materials Chemistry C, 2017, 5, 3323-3329.	2.7	29
103	Large-scale colloidal synthesis of Cu ₅ FeS ₄ compounds and their application in thermoelectrics. Journal of Materials Chemistry C, 2017, 5, 301-308.	2.7	29
104	Understanding and manipulating luminescence in carbon nanodots. Carbon, 2018, 126, 58-64.	5.4	29
105	Formation of filled carbon nanotubes and nanoparticles using polycyclic aromatic hydrocarbon molecules. Carbon, 1998, 36, 721-723.	5.4	28
106	Orientation controllable deposition of LiNbO ₃ films on sapphire and diamond substrates for surface acoustic wave device application. Journal of Crystal Growth, 2004, 268, 144-148.	0.7	28
107	The effect of arc parameters on the growth of carbon nanotubes. Journal of Materials Research, 1997, 12, 1536-1544.	1.2	27
108	High-frequency ultrasonic transducer fabricated with lead-free piezoelectric single crystal. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2601-2604.	1.7	27

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109	New fabrication of high-frequency (100-MHz) ultrasound PZT film kerfless linear array [Correspondence]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 854-857.	1.7	27
110	Enhancement of photovoltaic properties with Nb modified (Bi, Na) TiO ₃ BaTiO ₃ ferroelectric ceramics. Journal of Alloys and Compounds, 2014, 587, 339-343.	2.8	27
111	Enhanced Surface-and-Interface Coupling in Pd-Nanoparticle-coated LaAlO ₃ /SrTiO ₃ Heterostructures: Strong Gas- and Photo-Induced Conductance Modulation. Scientific Reports, 2015, 5, 8531.	1.6	27
112	Melt spinning synthesis of p-type skutterudites: Drastically speed up the process of high performance thermoelectrics. Scripta Materialia, 2016, 116, 26-30.	2.6	27
113	Geometric modulation of induced plasmonic circular dichroism in nanoparticle assemblies based on backaction and field enhancement. Nanoscale, 2018, 10, 19684-19691.	2.8	27
114	Effect of thermomechanical training temperature on the two-way shape memory effect of TiNi and TiNiCu shape memory alloys springs. Materials Letters, 2003, 57, 1501-1507.	1.3	26
115	Relaxor ferroelectric characteristics and temperature-dependent domain structure in a (110)-cut(PbMg _{1-x} Nb _{2-x} O ₃) _{0.75} (PbTiO ₃) _{0.25} single crystal. Physical Review B, 2005, 72, .	1.1	26
116	Room temperature magnetic exchange coupling in multiferroic BaTiO ₃ /CoFe ₂ O ₄ magnetoelectric superlattice. Journal of Materials Science, 2009, 44, 5143-5148.	1.7	25
117	Compression behavior and interfaces of NiAl-TiB ₂ in situ composites. Scripta Metallurgica Et Materialia, 1994, 31, 1141-1144.	1.0	24
118	Electronic structures of polycrystalline ZnO thin films probed by electron energy loss spectroscopy. Applied Physics Letters, 2000, 77, 1484-1486.	1.5	24
119	Phase and Layer Stability of Ni- and Ni(Pt)-Silicides on Narrow Poly-Si Lines. Journal of the Electrochemical Society, 2002, 149, G331.	1.3	24
120	Effects of Al addition on the native defects in hafnia. Applied Physics Letters, 2006, 88, 182903.	1.5	24
121	High frequency PMN-PT single crystal focusing transducer fabricated by a mechanical dimpling technique. Ultrasonics, 2013, 53, 345-349.	2.1	24
122	Low-field Switching Four-state Nonvolatile Memory Based on Multiferroic Tunnel Junctions. Scientific Reports, 2015, 5, 12826.	1.6	24
123	Probing Conformation Change and Binding Mode of Metal Ion-Carboxyl Coordination Complex through Resonant Surface-Enhanced Raman Spectroscopy and Density Functional Theory. Journal of Physical Chemistry Letters, 2019, 10, 4692-4698.	2.1	24
124	Broadband Plasmonic Enhancement of High-Efficiency Dye-Sensitized Solar Cells by Incorporating Au@Ag@SiO ₂ Core-Shell Nanocuboids. ACS Applied Materials & Interfaces, 2020, 12, 538-545.	4.0	24
125	A promising pathway to make multiwalled carbon nanotubes. Applied Physics Letters, 2000, 76, 3008-3010.	1.5	23
126	Epitaxial growth of SrTiO ₃ thin film on Si by laser molecular beam epitaxy. Applied Physics Letters, 2007, 90, 012902.	1.5	23

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127	Study of tunneling mechanism of Au nanocrystals in HfAlO matrix as floating gate memory. Applied Physics Letters, 2008, 92, .	1.5	23
128	Structural and dielectric properties of LuFe2O4 thin films grown by pulsed-laser deposition. Thin Solid Films, 2010, 518, 6909-6914.	0.8	23
129	Tunable electronic transport properties of DyScO3/SrTiO3 polar heterointerface. Applied Physics Letters, 2011, 98, 122108.	1.5	23
130	Ordered Hierarchical Porous Platinum Membranes with Tailored Mesostructures. Angewandte Chemie - International Edition, 2010, 49, 10101-10105.	7.2	22
131	Structural and resistance switching properties of ZnO/SrTiO3/GaAs heterostructure grown by laser molecular beam epitaxy. Applied Physics Letters, 2010, 97, 162905.	1.5	22
132	High-frequency PINâ€“PMNâ€“PT single crystal ultrasonic transducer for imaging applications. Applied Physics A: Materials Science and Processing, 2012, 108, 987-991.	1.1	22
133	Enhanced resistive memory in Nb-doped BaTiO3 ferroelectric diodes. Applied Physics Letters, 2017, 111, .	1.5	22
134	Enhanced ferroelectric polarization with less wake-up effect and improved endurance of Hf0.5Zr0.5O2 thin films by implementing W electrode. Journal of Materials Science and Technology, 2022, 104, 1-7.	5.6	22
135	Synthesis and characterization of single crystalline selenium nanowire arrays. Materials Research Bulletin, 2006, 41, 1729-1734.	2.7	21
136	Epitaxial multilayered Co/Cu ferromagnetic nanocolumns grown by oblique angle deposition. Nanotechnology, 2007, 18, 295702.	1.3	21
137	Enhanced Ferroelectric Properties and Insulatorâ€“Metal Transition-Induced Shift of Polarization-Voltage Hysteresis Loop in VO_x-Capped Hf_{0.5}Zr_{0.5}O₂ Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 40510-40517.	4.0	21
138	Enhanced stability of Ni monosilicide on MOSFETs poly-Si gate stack. Microelectronic Engineering, 2002, 60, 171-181.	1.1	20
139	Two-way shape memory effect of TiNi alloy coil extension springs. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 360, 126-131.	2.6	20
140	Endoscopic ultrasound radial array transducers fabricated with PZT tube by a rotate-and-dice method. Sensors and Actuators A: Physical, 2013, 201, 357-362.	2.0	20
141	Clam-inspired nanoparticle immobilization method using adhesive tape as microchip substrate. Sensors and Actuators B: Chemical, 2016, 222, 106-111.	4.0	20
142	Ultra-low coercive field of improper ferroelectric Ca3Ti2O7 epitaxial thin films. Applied Physics Letters, 2017, 110, .	1.5	20
143	Zâ€“Scheme Flowerâ€“Like SnO₂/gâ€“C₃N₄ Composite with Sn²⁺ Active Center for Enhanced Visibleâ€“Light Photocatalytic Activity. Advanced Sustainable Systems, 2021, 5, 2100087.	2.7	20
144	Formation and Stability of Ni(PT) Silicide on (100)Si and (111)Si. Materials Research Society Symposia Proceedings, 1999, 564, 163.	0.1	19

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145	Investigation of Ge nanocrystals in a metal-insulator-semiconductor structure with a HfO ₂ /SiO ₂ stack as the tunnel dielectric. Applied Physics Letters, 2005, 86, 113105.	1.5	19
146	Enhanced magnetoelectric effect in a stress-biased lead magnesium niobate-lead titanate single crystal/Terfenol-D alloy magnetoelectric sensor. Journal of Applied Physics, 2011, 109, .	1.1	19
147	A novel dual-frequency imaging method for intravascular ultrasound applications. Ultrasonics, 2015, 57, 31-35.	2.1	19
148	In situ TEM study of the sodiation/desodiation mechanism of MnO ₂ nanowire with gel-electrolytes. Energy Storage Materials, 2018, 15, 91-97.	9.5	19
149	Two-step interfacial reaction of HfO ₂ high-k gate dielectric thin films on Si. Ceramics International, 2004, 30, 1267-1270.	2.3	18
150	An open system for intravascular ultrasound imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2201-9.	1.7	18
151	High dielectric tunability of ferroelectric (Ba _{1-x} Sr _x)(Zr _{0.1} Ti _{0.9})O ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2014, 25, 2589-2594.	1.1	18
152	Infrared light gated MoS ₂ field effect transistor. Optics Express, 2015, 23, 31908.	1.7	18
153	Enhanced dielectric properties of colossal permittivity co-doped TiO ₂ /polymer composite films. RSC Advances, 2018, 8, 32972-32978.	1.7	18
154	Structural Properties of Yttria-stabilized Zirconia Thin Films Grown by Pulsed Laser Deposition. Journal of Materials Research, 1999, 14, 1329-1336.	1.2	17
155	Liquid-phase epitaxial growth of amorphous silicon during laser annealing of ultrashallow p+/n junctions. Applied Physics Letters, 2000, 77, 2994-2996.	1.5	17
156	Substrate effect on in-plane ferroelectric and dielectric properties of Ba _{0.7} Sr _{0.3} TiO ₃ thin films. Journal of Electroceramics, 2006, 16, 587-591.	0.8	17
157	Effect of Al addition on the microstructure and electronic structure of HfO ₂ film. Journal of Applied Physics, 2007, 101, 013514.	1.1	17
158	Electronic, magnetic and dielectric properties of multiferroic MnTiO ₃ . Journal of Materials Research, 2012, 27, 1421-1429.	1.2	17
159	Structural and Electrical Properties of Mn-doped Na _{0.5} Bi _{0.5} TiO ₃ Lead-Free Single Crystal. Integrated Ferroelectrics, 2013, 141, 120-127.	0.3	17
160	Dynamic strain-induced giant electroresistance and erasing effect in ultrathin ferroelectric tunnel-junction memory. Physical Review B, 2017, 95, .	1.1	17
161	Thickness-dependent magnetotransport properties in 1T VSe ₂ single crystals prepared by chemical vapor deposition. Nanotechnology, 2020, 31, 145712.	1.3	17
162	Nickel silicide formation on Si(100) and Poly-Si with a presilicide N ₂ + implantation. Journal of Electronic Materials, 2001, 30, 1554-1559.	1.0	16

#	ARTICLE	IF	CITATIONS
163	Development of a rapid and automated TEM sample preparation method in semiconductor failure analysis and the study of the relevant TEM artifact. <i>Microelectronics Journal</i> , 2001, 32, 221-226.	1.1	16
164	Fabrication and magnetic behavior of Co ²⁺ /Ni nanowire arrays with small diameters. <i>Physica B: Condensed Matter</i> , 2004, 353, 187-191.	1.3	16
165	Nitridation of hafnium oxide by reactive sputtering. <i>Microelectronic Engineering</i> , 2006, 83, 293-297.	1.1	16
166	Time- and temperature-dependent domain evolutions in poled (111)-cut (Pb(Mg ^{1/3} Nb ^{2/3})O ₃) _{0.7} (PbTiO ₃) _{0.3} single crystal. <i>Applied Physics Letters</i> , 2007, 90, 162907.	1.5	16
167	PMN-PT single crystal thick films on silicon substrate for high-frequency micromachined ultrasonic transducers. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 233-237.	1.1	16
168	Memory effect of an organic based trilayer structure with Au nanocrystals in an insulating polymer matrix. <i>Nanotechnology</i> , 2010, 21, 295706.	1.3	15
169	Dielectric tunability and magnetoelectric coupling in LuFe ₂ O ₄ epitaxial thin film deposited by pulsed-laser deposition. <i>Thin Solid Films</i> , 2012, 520, 6446-6449.	0.8	15
170	Log-periodic quantum magneto-oscillations and discrete-scale invariance in topological material HfTe ₅ . <i>National Science Review</i> , 2019, 6, 914-920.	4.6	15
171	High-Temperature Anomalous Hall Effect in a Transition Metal Dichalcogenide Ferromagnetic Insulator Heterostructure. <i>ACS Nano</i> , 2020, 14, 7077-7084.	7.3	15
172	Fabrication and magnetic behaviour of superconductor nanowire arrays. <i>Nanotechnology</i> , 2004, 15, 1166-1168.	1.3	14
173	Domain structure and evolution in (PbMg ^{1/3} Nb ^{2/3})O ₃) _{0.75} (PbTiO ₃) _{0.25} single crystal studied by temperature-dependent piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2005, 97, 094107.	1.1	14
174	Fabrication of high-density BiFeO ₃ nanodot and anti-nanodot arrays by anodic alumina template-assisted ion beam etching. <i>Nanotechnology</i> , 2016, 27, 485302.	1.3	14
175	Enhanced thermoelectric performance of chalcogenide Cu ₂ CdSnSe ₄ by ex-situ homogeneous nanoinclusions. <i>Journal of Materiomics</i> , 2016, 2, 179-186.	2.8	14
176	Nanoscale free-standing magnetoelectric heteropillars. <i>Nanoscale</i> , 2013, 5, 6747.	2.8	13
177	Self-assembled nanoscale capacitor cells based on ultrathin BiFeO ₃ films. <i>Applied Physics Letters</i> , 2014, 104, 182903.	1.5	13
178	Tunable high acoustic impedance alumina epoxy composite matching for high frequency ultrasound transducer. <i>Ultrasonics</i> , 2021, 116, 106506.	2.1	13
179	HREM study of TiB ₂ /NiAl interfaces in a NiAl-TiB ₂ in-situ composite. <i>Materials Letters</i> , 1994, 20, 23-27.	1.3	12
180	Formation of graphite encapsulated ferromagnetic particles and a mechanism for their growth. <i>Journal of Materials Research</i> , 1998, 13, 2139-2143.	1.2	12

#	ARTICLE	IF	CITATIONS
181	Studies of electronic structure of ZnO grain boundary and its proximity by using spatially resolved electron energy loss spectroscopy. Applied Physics Letters, 2002, 81, 277-279.	1.5	12
182	Study of domain boundary polarization in (111)-cut $[\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{O}_3)_x\text{O}_3]_{0.7}(\text{PbTiO}_3)_{0.3}$ single crystal by piezoresponse force microscopy. Applied Physics Letters, 2006, 89, 092906.	1.5	12
183	Effects of forming gas annealing on the memory characteristics of Ge nanocrystals embedded in LaAlO_3 high-k dielectrics for flash memory device application. Thin Solid Films, 2006, 513, 182-186.	0.8	12
184	Micro-patterning of $0.70\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3}\text{O}_3)_{0.3}\text{PbTiO}_3$ single crystals by ultrasonic wet chemical etching. Materials Letters, 2008, 62, 3127-3130.	1.3	12
185	The structural and in-plane dielectric/ferroelectric properties of the epitaxial $(\text{Ba}, \text{Sr})(\text{Zr}, \text{Ti})\text{O}_3$ thin films. Journal of Applied Physics, 2014, 115, .	1.1	12
186	Ultrasonic Transducer Fabricated Using Lead-Free BFO-BTO+Mn Piezoelectric 1-3 Composite. Actuators, 2015, 4, 127-134.	1.2	12
187	High-temperature tunneling electroresistance in metal/ferroelectric/semiconductor tunnel junctions. Applied Physics Letters, 2017, 111, .	1.5	12
188	Sintering temperature dependence of thermoelectric performance in CuCrSe_2 prepared via mechanical alloying. Scripta Materialia, 2017, 127, 127-131.	2.6	12
189	Anomalous variable-temperature photoluminescence of CsPbBr_3 perovskite quantum dots embedded into an organic solid. Nanoscale, 2019, 11, 20942-20948.	2.8	12
190	Ultralow switching voltage and power consumption of GeS_2 thin film resistive switching memory. Journal of Advanced Dielectrics, 2021, 11, 2150004.	1.5	12
191	Ferroelectricity in dopant-free HfO_2 thin films prepared by pulsed laser deposition. Journal of Materiomics, 2022, 8, 311-318.	2.8	12
192	Coexistence of hexagonal and orthorhombic structures in NiSi films containing Pt. Applied Physics Letters, 1999, 75, 2214-2216.	1.5	11
193	Application of contact-level ion-beam induced passive voltage contrast in failure analysis of static random access memory. , 0, , .		11
194	Application of PMNPT single crystal in a 3.2 MHz phased-array ultrasonic medical imaging transducer. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	11
195	Interfacial structure of epitaxial SrTiO_3 on Si: experiments and simulations. Journal Physics D: Applied Physics, 2009, 42, 085409.	1.3	11
196	Bandwidth improvement of LiNbO_3 ultrasonic transducers by half-concaved inversion layer approach. Review of Scientific Instruments, 2012, 83, 114903.	0.6	11
197	Focused intravascular ultrasonic probe using dimpled transducer elements. Ultrasonics, 2015, 56, 227-231.	2.1	11
198	Hollow Au nanorattles for boosting the performance of organic photovoltaics. Journal of Materials Chemistry A, 2019, 7, 26797-26803.	5.2	11

#	ARTICLE	IF	CITATIONS
199	Highly (100)-orientated SnSe thin films deposited by pulsed-laser deposition. Applied Surface Science, 2021, 535, 147694.	3.1	11
200	In situ synthesis and phase transformation of In ₂ O ₃ /Sb core-shell nanostructures. Journal of Crystal Growth, 2005, 282, 383-388.	0.7	10
201	Signal Enhancement of Surface Plasmon Resonance Based on Gold Nanoparticle-Antibody Complex for Immunoassay. Journal of Nanoscience and Nanotechnology, 2006, 6, 3521-3525.	0.9	10
202	Study of the tunnelling initiated leakage current through the carbon nanotube embedded gate oxide in metal oxide semiconductor structures. Nanotechnology, 2008, 19, 255401.	1.3	10
203	Single electron tunneling and Coulomb blockade effect in HfAlO ₂ -Au nanocrystals/HfAlO ₂ trilayer nonvolatile memory structure. Applied Physics Letters, 2008, 92, 143117.	1.5	10
204	Nanofabrication of highly ordered, tunable metallic mesostructures via quasi-hard-templating of lyotropic liquid crystals. Scientific Reports, 2015, 4, 7420.	1.6	10
205	Dynamic modulation of the transport properties of the LaAlO ₃ /SrTiO ₃ interface using uniaxial strain. Physical Review B, 2016, 93, .	1.1	10
206	Oxygen vacancy and photoelectron enhanced flexoelectricity in perovskite SrTiO ₃ crystal. Applied Physics Letters, 2021, 118, .	1.5	10
207	Atomic structure at Ti(C,N)-TiB ₂ interfaces in Ti(C,N)-TiB ₂ -Ni ceramics. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 70, 905-916.	0.8	9
208	Mechanical properties and interfacial microstructure of SiC whisker-reinforced ZrO ₂ -Y ₂ O ₃ composites. Ceramics International, 1995, 21, 243-247.	2.3	9
209	Nickel-platinum alloy monosilicidation-induced defects in n-type silicon. Applied Physics Letters, 2000, 76, 3385-3387.	1.5	9
210	Effect of Ion Implantation on Layer Inversion of Ni Silicided Poly-Si. Journal of the Electrochemical Society, 2002, 149, G505.	1.3	9
211	Front-end processing defect localization by contact-level passive voltage contrast technique and root cause analysis. , 0, , .		9
212	Electron Beam Induced Light Emission and Charge Conduction Patterning in ZnO by Using an AlO _x Layer. Advanced Materials, 2005, 17, 1960-1964.	11.1	9
213	Performance enhancement of a piezoelectric linear array transducer by half-concave geometric design. Sensors and Actuators A: Physical, 2011, 172, 511-515.	2.0	9
214	Temperature and electric field dependence of the dielectric property and domain evolution in [001]-oriented 0.34Pb(In _{1/2} Nb _{1/2})O ₃ â€“0.25Pb(Mg _{1/3} Nb _{2/3})O ₃ â€“0.41PbTiO ₃ single crystal. Journal of Applied Physics, 2011, 109, 014111.	1.1	9
215	Self-electroforming and high-performance complementary memristor based on ferroelectric tunnel junctions. Applied Physics Letters, 2016, 109, .	1.5	9
216	Ultra-low voltage resistive switching of HfO ₂ buffered (001) epitaxial NiO films deposited on metal seed layers. Applied Physics Letters, 2017, 111, .	1.5	9

#	ARTICLE	IF	CITATIONS
217	High resolution electron microscopy observation of interfacial structures in NiAl-matrix <i>in situ</i> composites reinforced by TiC particulates. <i>Journal of Materials Research</i> , 1997, 12, 1790-1795.	1.2	8
218	Integrity of Copper-Tantalum Nitride Metallization under Different Ambient Conditions. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2312.	1.3	8
219	Study of two-way shape memory extension spring of narrow hysteresis TiNiCu shape memory alloys. <i>Materials Letters</i> , 2002, 56, 284-288.	1.3	8
220	Oxygen pressure dependence of physical and electrical properties of LaAlO ₃ gate dielectric. <i>Microelectronic Engineering</i> , 2005, 77, 399-404.	1.1	8
221	PMN-PT single crystal thick films on silicon substrate for high-frequency micromachined ultrasonic transducers. , 2008, 2008, 161-163.		8
222	Memory characteristics and the tunneling mechanism of Au nanocrystals embedded in a DyScO ₃ high- k gate dielectric layer. <i>Semiconductor Science and Technology</i> , 2011, 26, 025015.	1.0	8
223	Ferroelectric domain structures in $\langle 001 \rangle$ -oriented K _{0.15} Na _{0.85} NbO ₃ lead-free single crystal. <i>AIP Advances</i> , 2015, 5, .	0.6	8
224	Oxygen-dependent epitaxial growth of Pt(001) thin films on MgO(001) by magnetron sputtering. <i>Applied Surface Science</i> , 2017, 406, 212-217.	3.1	8
225	BiFeO ₃ nanorings synthesized via AAO template-assisted pulsed laser deposition and ion beam etching. <i>RSC Advances</i> , 2017, 7, 41210-41216.	1.7	8
226	Flexoelectric Modulation on the Two-Dimensional Electron Gas at (110) LaAlO ₃ /SrTiO ₃ Interfaces. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1861-1866.	2.0	8
227	A dual mode electronic synapse based on layered SnSe films fabricated by pulsed laser deposition. <i>Nanoscale Advances</i> , 2020, 2, 1152-1160.	2.2	8
228	Multi-Level Resistive Switching in SnSe/SrTiO ₃ Heterostructure Based Memristor Device. <i>Nanomaterials</i> , 2022, 12, 2128.	1.9	8
229	Characterization of TiB ₂ -Ti(CN) ₂ -Ni ceramics by transmission and analytical electron microscopy. <i>Materials Letters</i> , 1993, 16, 317-321.	1.3	7
230	Characterization of 90° domain structure and polarization switching in Pb(Zr _{0.4} Ti _{0.6})O ₃ film by piezoresponse force microscope. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 997-1000.	1.1	7
231	Characterization of the interface between the Hf-based high- k thin film and the Si using spatially resolved electron energy-loss spectroscopy. <i>Micron</i> , 2010, 41, 15-19.	1.1	7
232	Kerf profile and piezoresponse study of the laser micro-machined PMN-PT single crystal using 355nm Nd:YAG. <i>Materials Research Bulletin</i> , 2013, 48, 3420-3423.	2.7	7
233	Memory characteristics and tunneling mechanism of Ag nanocrystal embedded HfAlO _x films on Si ₈₃ Ge ₁₇ /Si substrate. <i>Thin Solid Films</i> , 2014, 562, 674-679.	0.8	7
234	Microstructure defects mediated charge transport in Nb-doped epitaxial BaTiO ₃ thin films. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 175302.	1.3	7

#	ARTICLE	IF	CITATIONS
235	Tuning the Morphology and Chiroptical Properties of Discrete Gold Nanorods with Amino Acids. <i>Angewandte Chemie</i> , 2018, 130, 16690-16695.	1.6	7
236	Tunable discrete scale invariance in transition-metal pentatelluride flakes. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	7
237	Effect of deposition temperature on ultra-low voltage resistive switching behavior of Fe-doped SrTiO ₃ films. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	7
238	Microstructure and compression properties of NiAl-matrix in situ composites reinforced by TiC particulate. <i>Journal of Materials Science Letters</i> , 1995, 14, 443-445.	0.5	7
239	Successful Intercalation into Multiwall Carbon Nanotubes without Breaking Tubular Structure. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 310, 159-164.	0.3	6
240	High resistance via induced by marginal barrier metal step coverage and F diffusion. , 0, , .		6
241	Ambient-temperature incorporated hydrogen in Nb:SrTiO ₃ single crystals. <i>Applied Physics Letters</i> , 2003, 82, 3296-3298.	1.5	6
242	Structural characterization and electron-energy-loss spectroscopic study of pulsed laser deposited LiNbO ₃ films on a-sapphire. <i>Journal of Applied Physics</i> , 2004, 96, 6319-6322.	1.1	6
243	Formation of Ge nanocrystals by utilizing nanocluster source. <i>Materials Science in Semiconductor Processing</i> , 2006, 9, 817-822.	1.9	6
244	Endoscopic ultrasound radial arrays fabricated with high-performance piezocrystal and piezocomposite. , 2010, , .		6
245	35 MHz PMN-PT Single Crystal Annular Array Ultrasonic Transducer. <i>Integrated Ferroelectrics</i> , 2012, 139, 116-122.	0.3	6
246	Enhanced tunability of electrical and magnetic properties in (La,Sr)MnO ₃ thin films via field-assisted oxygen vacancy modulation. <i>Solid-State Electronics</i> , 2017, 138, 56-61.	0.8	6
247	Double-Layer MnCo ₂ S ₄ @Ni-Co-S Core/Shell Nanostructure on Nickel Foam for High-Performance Supercapacitor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800147.	0.8	6
248	Flexoelectricity in a metal/ferroelectric/semiconductor heterostructure. <i>AIP Advances</i> , 2018, 8, .	0.6	6
249	Ferroelectric-induced resistive switching in ultrathin (Ba,Sr)TiO ₃ tunnel junctions due to strain modulation. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	6
250	Enhancement of ferroelectricity and homogeneity of orthorhombic phase in Hf _{0.5} Zr _{0.5} O ₂ thin films. <i>Nanotechnology</i> , 2021, 32, 335704.	1.3	6
251	Orientation control of phase transition and ferroelectricity in Al-doped HfO ₂ thin films. <i>Materials Characterization</i> , 2021, 176, 111114.	1.9	6
252	Electron microscopy study of interfacial structure and reaction of Yba ₂ Cu ₃ O ₇ /Y-ZrO ₂ films on LaAlO ₃ substrates. <i>Journal of Materials Research</i> , 1998, 13, 1485-1491.	1.2	5

#	ARTICLE	IF	CITATIONS
253	Failure mechanism study for high resistance contact in CMOS devices. , 0, , .		5
254	Hydrogen-induced degradation in strontium titanate single crystals. Applied Physics A: Materials Science and Processing, 2005, 81, 631-633.	1.1	5
255	Effects of oxygen partial pressure on structural and electrical characteristics of HfAlO high-k gate dielectric grown on strained SiGe by pulsed-laser deposition. Materials Science in Semiconductor Processing, 2006, 9, 940-944.	1.9	5
256	Growth ambient on memory characteristics in Au nanoclusters embedded in high-k dielectric as novel non-volatile memory. Microelectronic Engineering, 2008, 85, 2385-2387.	1.1	5
257	Ferroelectric domain in PMN-xPT single crystal studied by piezoresponse force microscopy and finite-element analysis. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 952-956.	1.7	5
258	Mesoscopic phenomena in Au nanocrystal floating gate memory structure. Applied Physics Letters, 2009, 95, 113109.	1.5	5
259	ENHANCED MULTIFERROIC PROPERTIES OF La-DOPED BiFeO₃ NANOTUBES FABRICATED THROUGH ANODIC ALUMINA TEMPLATE METHOD. Journal of Advanced Dielectrics, 2011, 01, 325-330.	1.5	5
260	Temperature-dependent piezoelectric and dielectric properties of charge-ordered Lu ₂ Fe _{2.1} Mn _{0.9} O ₇ . Materials Letters, 2012, 68, 54-56.	1.3	5
261	Facile fabrication of highly ordered poly(vinylidene fluoride-trifluoroethylene) nanodot arrays for organic ferroelectric memory. Journal of Applied Physics, 2016, 119, 014104.	1.1	5
262	Influence of HIP processing on the interface of NiAl ₃ -TiC in situ composite. Materials Letters, 1996, 28, 361-363.	1.3	4
263	Structural and optical properties of wurtzite Mg _x Zn _{1-x} S (0 ≤ x ≤ 0.25) films grown on (0001) Al ₂ O ₃ by pulsed-laser deposition. Applied Physics Letters, 2002, 81, 1444-1446.	1.5	4
264	Study of Hf _{0.5} Al _{0.5} O High-k Gate Dielectric Thin Films Grown on Si. Integrated Ferroelectrics, 2003, 57, 1213-1219.	0.3	4
265	STEM study of interfacial reaction at HfAl _{1-x} O _y /Si interfaces. Thin Solid Films, 2004, 462-463, 114-117.	0.8	4
266	An open system for intravascular ultrasound imaging. , 2012, , .		4
267	Broadband focusing ultrasonic transducers based on dimpled LiNbO ₃ plate with inversion layer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2797-802.	1.7	4
268	Thickness-Dependent Bipolar Resistive Switching Behaviors of NiO₂ Films. Materials Science Forum, 0, 847, 131-136.	0.3	4
269	Modulating Magnetism in Ferroelectric Polymer-Gated Perovskite Manganite Films with Moderate Gate Pulse Chains. ACS Applied Materials & Interfaces, 2020, 12, 56541-56548.	4.0	4
270	High thermoelectric performance of ZrTe ₂ /SrTiO ₃ heterostructure. Journal of Materiomics, 2022, 8, 570-576.	2.8	4

#	ARTICLE	IF	CITATIONS
271	Controllable Coercive Field of Ferroelectric HfO ₂ Films via UV-Ozone Surface Modification. IEEE Transactions on Electron Devices, 2022, 69, 3094-3099.	1.6	4
272	Microstructure and mechanical properties of SiC Whisker reinforced ZrO ₂ -Y ₂ O ₃ composites. Materials Science and Technology, 1995, 11, 529-532.	0.8	3
273	Poly-residue-induced contact failures in 0.18 μ m technology. , 0, , .		3
274	Highly-oriented LiNbO ₃ Films on Polycrystalline Diamond Substrate for High Frequency Surface Acoustic Wave Devices. Japanese Journal of Applied Physics, 2004, 43, L706-L708.	0.8	3
275	Study of Local Piezoelectric Properties for Europium Doped Lead Zirconate Titanate Films by Piezoresponse Force Microscope. Integrated Ferroelectrics, 2004, 68, 199-206.	0.3	3
276	Pulsed laser deposition of aluminate YAlO ₃ and LaAlO ₃ thin films for alternative gate dielectric applications. Applied Physics A: Materials Science and Processing, 2005, 80, 1775-1779.	1.1	3
277	INFLUENCE OF PROCESSING CONDITIONS ON THE STRUCTURE OF STRONTIUM TITANATE THIN FILMS GROWN ON SI BY LASER MBE. Integrated Ferroelectrics, 2006, 86, 109-116.	0.3	3
278	Microstructure and magnetic properties of a novel spinel (Zn,Co)Fe ₂ O ₄ thin film on the SrTiO ₃ substrate. Journal of Crystal Growth, 2010, 313, 26-29.	0.7	3
279	First principles study of transport properties of LaAlO ₃ /SrTiO ₃ heterostructure with water adsorbates. Solid State Communications, 2013, 169, 46-49.	0.9	3
280	An ultrawide bandwidth high frequency phased-array ultrasound transducer fabricated using the PMN-0.3PT single crystal. , 2016, , .		3
281	Stability of Bilayer Films of YBa ₂ Cu ₃ O ₇ and Y-ZrO ₂ Grown on LaAlO ₃ by Pulsed Organometallic Beam Epitaxy. Chemical Vapor Deposition, 1998, 04, 99-102.	1.4	3
282	Microstructure and mechanical properties of SiC Whisker reinforced ZrO ₂ -Y ₂ O ₃ composites. Materials Science and Technology, 1995, 11, 529-532.	0.8	3
283	Interface structure and mechanical properties of Al ₂ O ₃ -20 vol% ZrO ₂ -20 vol% SiC ceramic composite. Journal of Materials Science, 1995, 30, 4549-4555.	1.7	2
284	High-resolution electron microscopy study of interfacial structure in TiB ₂ [sbnd] Ti _{0.9} W _{0.1} C [sbnd] SiC <i>in-situ</i> composite. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 74, 269-279.	0.8	2
285	Metal-Organic Chemical Vapor Deposition Routes to Films of Transparent Conducting Oxides. Materials Research Society Symposia Proceedings, 1997, 495, 3.	0.1	2
286	Stability of Bilayer Films of YBa ₂ Cu ₃ O ₇ and Y-ZrO ₂ Grown on LaAlO ₃ by Pulsed Organometallic Beam Epitaxy. Chemical Vapor Deposition, 1998, 4, 99-102.	1.4	2
287	Open contact analysis of single bit failure in 0.18 μ m technology. Microelectronics Reliability, 2002, 42, 1997-2001.	0.9	2
288	BARIUM STRONTIUM ZIRCONATE TITANATE (BSZT) THIN FILMS FOR OPTICAL WAVEGUIDE APPLICATIONS. Integrated Ferroelectrics, 2006, 80, 107-114.	0.3	2

#	ARTICLE	IF	CITATIONS
289	Polysilicon thin film transistors using sputtered HfO ₂ gate dielectric and SiGe source/drain. Semiconductor Science and Technology, 2007, 22, 574-576.	1.0	2
290	A Digital Multigate Doppler Method for High Frequency Ultrasound. Sensors, 2014, 14, 13348-13360.	2.1	2
291	Development of focused IVUS transducer using PMN-PT single crystal. , 2014, , .		2
292	Charge storage characteristics and tunneling mechanism of amorphous Ge-doped HfO _x films. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	2
293	Flexible Solid-state Supercapacitors Using Paper-based Electrodes for Energy Storage. , 2018, , .		2
294	Gate-tunable anomalous transverse voltage at the superconducting LaAlO ₃ /SrTiO ₃ interface. Applied Physics Letters, 2019, 115, 061603.	1.5	2
295	Quantitative characterization of the colorectal cancer in a rabbit model using high-frequency endoscopic ultrasound. Ultrasonics, 2021, 110, 106289.	2.1	2
296	Formation of Nanotubes, Nanowires, and Nanoparticles in a Hydrogen Arc. Springer Series in Materials Science, 1998, , 43-50.	0.4	2
297	Metallic capped quasi-two-dimensional electron gas in a SrTiO ₃ -based heterostructure. Applied Physics Letters, 2021, 119, 201602.	1.5	2
298	Study of Ni ₃₁ Si ₁₂ intergranular phase in Ti(CN)-TiB ₂ -Ni ceramics. Journal of Materials Science Letters, 1994, 13, 790-792.	0.5	1
299	A high-resolution-electron-microscopy study of a $\langle 111 \rangle$ directionally solidified eutectic alloy. Journal of Materials Science, 1995, 30, 248-252.	1.7	1
300	A high-resolution-electron-microscopy study of $\langle 111 \rangle$ directionally solidified eutectic alloy. Journal of Materials Science, 1995, 30, 253-257.	1.7	1
301	Fine structure and interface structure of ion-bombardment nitrated layers. Science in China Series D: Earth Sciences, 1998, 41, 579-585.	0.9	1
302	Heteroepitaxial oxide structures grown by pulsed organometallic beam epitaxy (POMBE). Journal of Crystal Growth, 2003, 247, 509-515.	0.7	1
303	SYNTHESIS OF In ₂ O ₃ NANOWIRES ENHANCED BY ANODIC ALUMINA MEMBRANE. International Journal of Nanoscience, 2006, 05, 479-485.	0.4	1
304	Interfacial microstructure and electrical properties of HfAlO _x thin films on compressively strained Si ₈₃ Ge ₁₇ grown by RF magnetron sputtering. Microelectronic Engineering, 2009, 86, 2247-2250.	1.1	1
305	Effect of Strain on Ferroelectric and Magnetic Behavior in Pb(Zr _{0.52} Ti _{0.48})O ₃ -Based Magnetoelectric Heterostructures. Journal of Nanoscience and Nanotechnology, 2011, 11, 11227-11230.	0.9	1
306	Anisotropy of Weak Ferromagnetism of HfAlO _x Film Deposited by Magnetron Sputtering. Integrated Ferroelectrics, 2012, 134, 13-15.	0.3	1

#	ARTICLE	IF	CITATIONS
307	Weak Ferromagnetism of HfO ₂ Film on Compressively Strained Si ₈₃ Ge ₁₇ /Si Substrate. Integrated Ferroelectrics, 2012, 134, 10-12.	0.3	1
308	Study of LuFe ₂ O ₄ Thin Film Growth and Its Structural and Multiferroic Properties. Integrated Ferroelectrics, 2012, 132, 67-69.	0.3	1
309	A novel high-frequency endoscopic ultrasound system for colorectal cancer diagnosis. , 2013, , .		1
310	Visible-light enhanced charge storage characteristics of amorphous Ni-doped HfO ₂ films. Journal Physics D: Applied Physics, 2018, 51, 305105.	1.3	1
311	Fracture Toughness and Microstructure of Nial-Based Composite with TiC Reinforcement. Materials Research Society Symposia Proceedings, 1994, 364, 567.	0.1	0
312	â€Mirrorlessâ€•UV lasers in ZnO polycrystalline films and powder. Materials Research Society Symposia Proceedings, 1998, 536, 477.	0.1	0
313	Defects in annealed 1.5 MeV boron implanted p-type silicon. Journal of Electronic Materials, 2001, 30, 850-854.	1.0	0
314	Applicaton of blends and side chain Si-O copolymers as high-etch-resistant sub-100-nm e-beam resists. , 2002, , .		0
315	Ge nanocrystals embedded in Hf-aluminate high-k gate dielectric for floating gate memory application. , 2005, , .		0
316	Effect of Al Addition on the Electronic Structure of Hafnia by Spatially Resolved Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2006, 12, 1156-1157.	0.2	0
317	Light emission and charge transport studies on ZnO heterostructures. , 2006, , .		0
318	Recent Patents in Semiconductor Nanocluster Floating Gate Flash Memory. Recent Patents on Nanotechnology, 2007, 1, 91-97.	0.7	0
319	Ferroelectric domain in PMN-xPT single crystal studied by piezoresponse force microscopy and finite element analysis. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
320	Standing wave-type bi-directional linear moving ultrasonic motor using plates and weak links. , 2007, , .		0
321	Lead free BNT ceramics as driving element in traveling wave type ultrasonic motor. , 2007, , .		0
322	Growth and characterizations of CoFe<inf>2</inf></inf>O<inf>4</inf></inf>-ZnO nanocomposite thin films. , 2010, , .		0
323	High frequency LiNbO<inf>3</inf> focusing transducer using a mechanical dimpling technique. , 2012, , .		0
324	Structural and Optical Characteristics of Ag Nanoparticles Embedded in Homoepitaxial SrTiO₃ Thin Films. Integrated Ferroelectrics, 2013, 142, 96-102.	0.3	0

#	ARTICLE	IF	CITATIONS
325	Preface to Special Topic: International Symposium on Integrated Functionalities 2012, Hong Kong, June 17-21 2012. Journal of Applied Physics, 2013, 114, 026901.	1.1	0
326	Acoustic characterization of nano gas vesicles. , 2015, , .		0
327	In-situ Observation of Cu Filaments Evolution in SiO ₂ layer. Microscopy and Microanalysis, 2017, 23, 1622-1623.	0.2	0
328	Exploring the LaAlO ₃ /SrTiO ₃ Two-Dimensional Electron Gas. Advances in Materials Science and Engineering, 2016, , 423-459.	0.4	0
329	Negative photoconductivity and memory effects of germanium nanocrystals embedded in HfO ₂ dielectric. Journal of Nanoscience and Nanotechnology, 2006, 6, 205-8.	0.9	0