

Nian Sun

List of Publications by Year in descending order

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194
papers

7,874
citations

46918

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all docs

197
docs citations

197
times ranked

5400
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant Electric Field Tuning of Magnetic Properties in Multiferroic Ferrite/Ferroelectric Heterostructures. <i>Advanced Functional Materials</i> , 2009, 19, 1826-1831.	7.8	387
2	Acoustically actuated ultra-compact NEMS magnetoelectric antennas. <i>Nature Communications</i> , 2017, 8, 296.	5.8	299
3	Giant Electric Field Tuning of Magnetism in Novel Multiferroic FeGaB/Lead Zinc Niobate/Lead Titanate (PZN/PT) Heterostructures. <i>Advanced Materials</i> , 2009, 21, 4711-4715.	11.1	268
4	VOLTAGE CONTROL OF MAGNETISM IN MULTIFERROIC HETEROSTRUCTURES AND DEVICES. <i>Spin</i> , 2012, 02, 1240004.	0.6	252
5	Self-Biased 215MHz Magnetoelectric NEMS Resonator for Ultra-Sensitive DC Magnetic Field Detection. <i>Scientific Reports</i> , 2013, 3, 1985.	1.6	225
6	Quantification of strain and charge co-mediated magnetoelectric coupling on ultra-thin Permalloy/PMN-PT interface. <i>Scientific Reports</i> , 2014, 4, 3688.	1.6	184
7	Voltage Tuning of Ferromagnetic Resonance with Bistable Magnetization Switching in Energy-Efficient Magnetoelectric Composites. <i>Advanced Materials</i> , 2013, 25, 1435-1439.	11.1	179
8	Ba-hexaferrite films for next generation microwave devices (invited). <i>Journal of Applied Physics</i> , 2006, 99, 08M911.	1.1	175
9	Comparison of spin-orbit torques and spin pumping across NiFe/Pt and NiFe/Cu/Pt interfaces. <i>Physical Review B</i> , 2015, 91, .	1.1	166
10	Soft magnetism, magnetostriction, and microwave properties of FeGaB thin films. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	150
11	Electric Field Control of Exchange Bias and Deterministic Magnetization Switching in AFM/FM/FE Multiferroic Heterostructures. <i>Advanced Functional Materials</i> , 2011, 21, 2593-2598.	7.8	149
12	Electrostatically tunable magnetoelectric inductors with large inductance tunability. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	142
13	Challenges and opportunities for multi-functional oxide thin films for voltage tunable radio frequency/microwave components. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	137
14	Highly Sensitive Flexible Magnetic Sensor Based on Anisotropic Magnetoresistance Effect. <i>Advanced Materials</i> , 2016, 28, 9370-9377.	11.1	136
15	Small Ultra-Wideband (UWB) Bandpass Filter With Notched Band. <i>IEEE Microwave and Wireless Components Letters</i> , 2008, 18, 176-178.	2.0	132
16	Electrical tuning of magnetism in Fe ₃ O ₄ /PZN/PT multiferroic heterostructures derived by reactive magnetron sputtering. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	126
17	Voltage control of magnetism in multiferroic heterostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20120439.	1.6	118
18	A Portable Very Low Frequency (VLF) Communication System Based on Acoustically Actuated Magnetoelectric Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 398-402.	2.4	116

#	ARTICLE	IF	CITATIONS
19	Electric field modulation of magnetoresistance in multiferroic heterostructures for ultralow power electronics. Applied Physics Letters, 2011, 98, .	1.5	100
20	Giant microwave tunability in FeGaB/lead magnesium niobate-lead titanate multiferroic composites. Applied Physics Letters, 2008, 92, .	1.5	99
21	Ultra-compact dual-band smart NEMS magnetoelectric antennas for simultaneous wireless energy harvesting and magnetic field sensing. Nature Communications, 2021, 12, 3141.	5.8	95
22	Deterministic Switching of Perpendicular Magnetic Anisotropy by Voltage Control of Spin Reorientation Transition in (Co/Pt) ₃ /Pb(Mg _{1/3} Nb _{2/3})O ₃ â€“PbTiO ₃ Multiferroic Heterostructures. ACS Nano, 2017, 11, 4337-4345.	7.3	91
23	Wide Band Low Noise Love Wave Magnetic Field Sensor System. Scientific Reports, 2018, 8, 278.	1.6	89
24	Bias Field Effects on Microwave Frequency Behavior of PZT/YIG Magnetoelectric Bilayer. IEEE Transactions on Magnetics, 2007, 43, 3343-3345.	1.2	87
25	Recent advances in multiferroic oxide heterostructures and devices. Journal of Materials Chemistry C, 2016, 4, 234-243.	2.7	87
26	Probing electric field control of magnetism using ferromagnetic resonance. Nature Communications, 2015, 6, 6082.	5.8	85
27	Ultra-sensitive NEMS magnetoelectric sensor for picotesla DC magnetic field detection. Applied Physics Letters, 2017, 110, .	1.5	83
28	High Resolution Magnetometer Based on a High Frequency Magnetoelectric MEMS-CMOS Oscillator. Journal of Microelectromechanical Systems, 2015, 24, 134-143.	1.7	78
29	Magnetoelectric materials and devices. APL Materials, 2021, 9, .	2.2	78
30	Voltage impulse induced bistable magnetization switching in multiferroic heterostructures. Applied Physics Letters, 2012, 100, .	1.5	76
31	Giant magnetoelectric coupling and E-field tunability in a laminated Ni ₂ MnGa/lead-magnesium-niobate-lead titanate multiferroic heterostructure. Applied Physics Letters, 2008, 93, 112502.	1.5	73
32	Anisotropic spin-orbit torque generation in epitaxial SrIrO ₃ by symmetry design. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16186-16191.	3.3	73
33	Tunable Miniaturized Patch Antennas With Self-Biased Multilayer Magnetic Films. IEEE Transactions on Antennas and Propagation, 2009, 57, 2190-2193.	3.1	71
34	Coexistence of Low Damping and Strong Magnetoelastic Coupling in Epitaxial Spinel Ferrite Thin Films. Advanced Materials, 2017, 29, 1701130.	11.1	71
35	A Review of Thin-Film Magnetoelastic Materials for Magnetoelectric Applications. Sensors, 2020, 20, 1532.	2.1	69
36	Voltage Control of Metal-insulator Transition and Non-volatile Ferroelastic Switching of Resistance in VOx/PMN-PT Heterostructures. Scientific Reports, 2014, 4, 5931.	1.6	67

#	ARTICLE	IF	CITATIONS
37	NanoNeuroRFID: A Wireless Implantable Device Based on Magnetolectric Antennas. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 206-215.	2.3	66
38	Pseudomorphic Yttrium Iron Garnet Thin Films With Low Damping and Inhomogeneous Linewidth Broadening. IEEE Magnetics Letters, 2015, 6, 1-4.	0.6	65
39	Electrically induced enormous magnetic anisotropy in Terfenol-D/lead zinc niobate-lead titanate multiferroic heterostructures. Journal of Applied Physics, 2012, 112, .	1.1	59
40	Giant nonreciprocity of surface acoustic waves enabled by the magnetoelastic interaction. Science Advances, 2020, 6, .	4.7	59
41	Electrostatic tuning of ferromagnetic resonance and magnetolectric interactions in ferrite-piezoelectric heterostructures grown by chemical vapor deposition. Applied Physics Letters, 2011, 99, .	1.5	58
42	Interfacial charge-mediated non-volatile magnetolectric coupling in Co _{0.3} Fe _{0.7} /Ba _{0.6} Sr _{0.4} TiO ₃ /Nb:SrTiO ₃ multiferroic heterostructures. Scientific Reports, 2015, 5, 7740.	1.6	56
43	Characterization of magnetomechanical properties in FeGaB thin films. Applied Physics Letters, 2018, 113, .	1.5	53
44	Mechanical-Resonance-Enhanced Thin-Film Magnetolectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. Materials, 2019, 12, 2259.	1.3	53
45	Planar Annular Ring Antennas With Multilayer Self-Biased NiCo-Ferrite Films Loading. IEEE Transactions on Antennas and Propagation, 2010, 58, 648-655.	3.1	51
46	Highly Sensitive DC Magnetic Field Sensor Based on Nonlinear ME Effect. , 2017, 1, 1-4.		50
47	Electronically Tunable Miniaturized Antennas on Magnetolectric Substrates With Enhanced Performance. IEEE Transactions on Magnetics, 2008, 44, 3091-3094.	1.2	49
48	Strong magnetolectric coupling in ferrite/ferroelectric multiferroic heterostructures derived by low temperature spin-spray deposition. Journal Physics D: Applied Physics, 2009, 42, 045007.	1.3	49
49	Electrically controlled non-volatile switching of magnetism in multiferroic heterostructures via engineered ferroelastic domain states. NPC Asia Materials, 2016, 8, e316-e316.	3.8	48
50	Compact and Low Loss Phase Shifter With Low Bias Field Using Partially Magnetized Ferrite. IEEE Transactions on Magnetics, 2013, 49, 3882-3885.	1.2	47
51	High-Bandwidth Low-Insertion Loss Solenoid Transformers Using FeCoB Multilayers. IEEE Transactions on Power Electronics, 2013, 28, 4395-4401.	5.4	47
52	Ultra-compact mechanical antennas. Applied Physics Letters, 2020, 117, .	1.5	47
53	Significantly Enhanced Inductance and Quality Factor of GHz Integrated Magnetic Solenoid Inductors With FeGaB Al_2O_3 Multilayer Films. IEEE Transactions on Electron Devices, 2014, 61, 1470-1476.	1.6	45
54	Tunable Bandpass Filter Using Partially Magnetized Ferrites With High Power Handling Capability. IEEE Microwave and Wireless Components Letters, 2013, 23, 184-186.	2.0	44

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73	A low-power and high-sensitivity magnetic field sensor based on converse magnetoelectric effect. Applied Physics Letters, 2019, 115, .	1.5	30
74	Effects of boron addition to the atomic structure and soft magnetic properties of FeCoB films. Journal of Applied Physics, 2008, 103, .	1.1	29
75	Spin-orbit torque and spin pumping in YIG/Pt with interfacial insertion layers. Applied Physics Letters, 2018, 112, .	1.5	28
76	Integrated magnetoelectric devices: Filters, pico-Tesla magnetometers, and ultracompact acoustic antennas. MRS Bulletin, 2018, 43, 841-847.	1.7	28
77	A quantitative model for the nonlinear response of fluxgate magnetometers. Journal of Applied Physics, 2006, 99, 08B316.	1.1	27
78	Dual H- and E-Field Tunable Multiferroic Bandpass Filter at $\{m K\}_{U}$ -Band Using Partially Magnetized Spinel Ferrites. IEEE Transactions on Magnetics, 2013, 49, 5485-5488.	1.2	27
79	Electric field induced reversible 180° magnetization switching through tuning of interfacial exchange bias along magnetic easy-axis in multiferroic laminates. Scientific Reports, 2015, 5, 16480.	1.6	26
80	A Strain-Mediated Magnetoelectric-Spin-Torque Hybrid Structure. Advanced Functional Materials, 2019, 29, 1806371.	7.8	26
81	Determination of magnetic anisotropies, interlayer coupling, and magnetization relaxation in FeCoB/Cr/FeCoB. Journal of Applied Physics, 2009, 106, .	1.1	25
82	Large E-field tunability of microwave ferromagnetic properties in Fe _{59.3} Co _{28.0} Hf _{12.7} /PZN-PT multiferroic composites. Journal of Applied Physics, 2014, 115, 17C723.	1.1	25
83	Tunable magnetoresistance devices based on multiferroic heterostructures. Journal of Applied Physics, 2011, 109, 07D913.	1.1	24
84	Large E-field tunability of magnetic anisotropy and ferromagnetic resonance frequency of co-sputtered Fe ₅₀ Co ₅₀ -B film. Journal of Applied Physics, 2015, 117, .	1.1	24
85	Voltage-Driven Nonlinearity in Magnetoelectric Heterostructures. Physical Review Applied, 2019, 12, .	1.5	24
86	Microwave tunability in a GaAs-based multiferroic heterostructure: Co ₂ MnAl/GaAs/PMN-PT. Journal of Applied Physics, 2009, 105, .	1.1	23
87	Miniaturized Antennas and Planar Bandpass Filters With Self-Biased NiCo-Ferrite Films. IEEE Transactions on Magnetics, 2009, 45, 4191-4194.	1.2	23
88	Strong non-volatile voltage control of magnetism in magnetic/antiferroelectric magnetoelectric heterostructures. Applied Physics Letters, 2014, 104, .	1.5	23
89	Non-Volatile Ferroelectric Switching of Ferromagnetic Resonance in NiFe/PLZT Multiferroic Thin Film Heterostructures. Scientific Reports, 2016, 6, 32408.	1.6	23
90	Soft Magnetism, Magnetostriction, and Microwave Properties of Fe-Ga-C Alloy Films. IEEE Magnetics Letters, 2019, 10, 1-5.	0.6	22

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91	Electric-field control of spin dynamics during magnetic phase transitions. <i>Science Advances</i> , 2020, 6, .	4.7	22
92	Compact, Low-Loss, Wideband, and High-Power Handling Phase Shifters With Piezoelectric Transducer-Controlled Metallic Perturber. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012, 60, 1587-1594.	2.9	21
93	The memory effect of magnetoelectric coupling in FeGaB/NiTi/PMN-PT multiferroic heterostructure. <i>Scientific Reports</i> , 2016, 6, 20450.	1.6	21
94	Highly sensitive integrated flexible tactile sensors with piezoresistive Ge ₂ Sb ₂ Te ₅ thin films. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	21
95	All-Optical Manipulation of Magnetization in Ferromagnetic Thin Films Enhanced by Plasmonic Resonances. <i>Nano Letters</i> , 2020, 20, 6437-6443.	4.5	21
96	Microwave Frequency Performance and High Magnetic Anisotropy of $\{m\text{Fe}_{70}\text{Co}_{30}\text{-}m\text{B}\}$ Films Prepared by a Modified Composition Gradient Sputtering. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 4313-4316.	1.2	20
97	Competition between pumping and damping in microwave-assisted magnetization reversal in magnetic films. <i>Physical Review B</i> , 2010, 81, .	1.1	19
98	High quality factor integrated gigahertz magnetic transformers with FeGaB/Al ₂ O ₃ multilayer films for radio frequency integrated circuits applications. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	19
99	Novel Compact and Low-Loss Phase Shifters With Magnetodielectric Disturber. <i>IEEE Microwave and Wireless Components Letters</i> , 2011, 21, 240-242.	2.0	18
100	Low moment NiCr radio frequency magnetic films for multiferroic heterostructures with strong magnetoelectric coupling. <i>Journal of Applied Physics</i> , 2012, 111, 103915.	1.1	18
101	Large E-field tunability of microwave ferromagnetic properties in Fe ₅₀ Co ₅₀ -Hf/lead zinc niobate-lead titanate multiferroic laminates. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	18
102	Giant electric field control of magnetism and narrow ferromagnetic resonance linewidth in FeCoSiB/Si/SiO ₂ /PMN-PT multiferroic heterostructures. <i>Applied Physics Letters</i> , 2016, 108, 232903.	1.5	18
103	Magnetoelectric phase transition driven by interfacial-engineered Dzyaloshinskii-Moriya interaction. <i>Nature Communications</i> , 2021, 12, 5453.	5.8	18
104	Design of Tunable Bandpass Filters With Ferrite Sandwich Materials by Using a Piezoelectric Transducer. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 3732-3735.	1.2	17
105	Experimental Characterization of Microfabricated Thermoelectric Energy Harvesters for Smart Sensor and Wearable Applications. <i>Advanced Materials Technologies</i> , 2018, 3, 1700383.	3.0	17
106	Underlayer effect on the soft magnetic, high frequency, and magnetostrictive properties of FeGa thin films. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	17
107	Low-temperature spin spray deposited ferrite/piezoelectric thin film magnetoelectric heterostructures with strong magnetoelectric coupling. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1188-1192.	1.1	16
108	Growth behavior and RF/microwave properties of low temperature spin-sprayed NiZn ferrite. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1890-1894.	1.1	16

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109	A passive isolator realized by magnetoelectric laminate composites. Applied Physics Letters, 2018, 113, .	1.5	16
110	Magnetostriction, Soft Magnetism, and Microwave Properties in $\text{Co}_x\text{Fe}_{1-x}$ Alloy Films. Physical Review Applied, 2019, 12, .	1.6	16
111	A Molecularly Imprinted Polymer-Graphene Sensor Antenna Hybrid for Ultra Sensitive Chemical Detection. IEEE Sensors Journal, 2019, 19, 6571-6577.	2.4	16
112	Soft magnetism and microwave magnetic properties of Fe-Co-Hf films deposited by composition gradient sputtering. Journal of Applied Physics, 2011, 109, .	1.1	15
113	E-field tuning microwave frequency performance of Co_2FeSi /lead zinc niobate/lead titanate magnetoelectric coupling composites. Journal of Applied Physics, 2012, 111, 07C705.	1.1	15
114	Stress competition and vortex magnetic anisotropy in FeCoAlO high-frequency soft magnetic films with gradient Al-O contents. Journal of Applied Physics, 2013, 113, 17A332.	1.1	15
115	All-Optical Helicity-Dependent Switching in Hybrid Metal-Ferromagnet Thin Films. Advanced Optical Materials, 2020, 8, 2000379.	3.6	15
116	Lightweight and Construable Magnetic Wood for Electromagnetic Interference Shielding. Advanced Engineering Materials, 2020, 22, 2000257.	1.6	15
117	Permittivity and Permeability Measurement of Spin-Spray Deposited Ni-Zn-Ferrite Thin Film Sample. IEEE Transactions on Magnetics, 2012, 48, 4085-4088.	1.2	14
118	BaTiO ₃ /PVDF-g-PSSA composite proton exchange membranes for vanadium redox flow battery. Ceramics International, 2015, 41, S758-S762.	2.3	14
119	A novel NiZn ferrite integrated magnetic solenoid inductor with a high quality factor at 0.7 GHz. AIP Advances, 2017, 7, .	0.6	14
120	Fabrication and Characterization of Bi ₂ Te ₃ -Based Chip-Scale Thermoelectric Energy Harvesting Devices. Journal of Electronic Materials, 2017, 46, 2844-2846.	1.0	14
121	Thin Film Magnetoelectric Sensors Toward Biomagnetism: Materials, Devices, and Applications. Advanced Electronic Materials, 2022, 8, .	2.6	14
122	Tutorial: Piezoelectric and magnetoelectric N/MEMS Materials, devices, and applications. Journal of Applied Physics, 2022, 131, .	1.1	14
123	Novel electrostatically tunable FeGaB/(Si)/PMN-PT multiferroic heterostructures for microwave application. , 2009, , .		13
124	Optimum design of magnetic inductive energy harvester and its AC-DC converter. , 2012, , .		13
125	MEMS resonant magnetic field sensor based on an AlN/F<inf>e</inf>G<inf>a</inf>B bilayer nano-plate resonator. , 2013, , .		13
126	Advances in Magnetics Epitaxial Multiferroic Heterostructures and Applications. IEEE Transactions on Magnetics, 2017, 53, 1-16.	1.2	13

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127	Controllable synthesis and upconversion luminescence of NaYF ₄ :Yb ³⁺ , Er ³⁺ nanocrystals. <i>Ceramics International</i> , 2015, 41, S713-S718.	2.3	12
128	Interfacial orbital preferential occupation induced controllable uniaxial magnetic anisotropy observed in Ni/NiO(110) heterostructures. <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	12
129	Integration of a novel CMOS-compatible magnetoelectric antenna with a low-noise amplifier and a tunable input matching. <i>Analog Integrated Circuits and Signal Processing</i> , 2020, 105, 407-415.	0.9	12
130	The development of microfabricated solenoids with magnetic cores for micromagnetic neural stimulation. <i>Microsystems and Nanoengineering</i> , 2021, 7, 91.	3.4	12
131	Ferromagnetic resonance studies of surface and bulk spin-wave modes in a CoFe/PtMn/CoFe multilayer film. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	11
132	Excessive grain boundary conductivity of spin-spray deposited ferrite/non-magnetic multilayer. <i>Journal of Applied Physics</i> , 2012, 111, 07A512.	1.1	11
133	Tunable Ultrawideband Phase Shifters With Magnetodielectric Disturber Controlled by a Piezoelectric Transducer. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	1.2	11
134	A Molecularly Imprinted Electrochemical Gas Sensor to Sense Butylated Hydroxytoluene in Air. <i>Journal of Sensors</i> , 2018, 2018, 1-9.	0.6	11
135	Modeling of Magnetolectric Antennas for Circuit Simulations in Magnetic Sensing Applications. , 2020, , .		11
136	A Radio Frequency Magnetolectric Antenna Prototyping Platform for Neural Activity Monitoring Devices with Sensing and Energy Harvesting Capabilities. <i>Electronics (Switzerland)</i> , 2020, 9, 2123.	1.8	11
137	Ferrite-Coupled Line Circulator Simulations For Application at X-Band Frequency. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2639-2641.	1.2	10
138	Electric field modulation of surface anisotropy and magneto-dynamics in multiferroic heterostructures. <i>Journal of Applied Physics</i> , 2011, 109, 07D731.	1.1	10
139	Enhancing ground plane immunity of dipole antennas with spin-spray deposited lossy ferrite films. <i>Microwave and Optical Technology Letters</i> , 2012, 54, 230-233.	0.9	10
140	Integrated non-reciprocal dual H- and E-Field tunable bandpass filter with ultra-wideband isolation. , 2015, , .		10
141	Spin-orbital coupling induced four-fold anisotropy distribution during spin reorientation in ultrathin Co/Pt multilayers. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	10
142	Integrated Tunable Bandstop Filter Using Self-Biased FeGaB/Al ₂ O ₃ Multilayer Thin Film. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	1.2	10
143	Enhancing the soft magnetic properties of FeGa with a non-magnetic underlayer for microwave applications. <i>Applied Physics Letters</i> , 2020, 116, 222404.	1.5	10
144	Voltage Tuning of Ferromagnetic Resonance and Linewidth in Spinel Ferrite/Ferroelectric Multiferroic Heterostructures. <i>IEEE Magnetics Letters</i> , 2015, 6, 1-4.	0.6	9

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145	Topological Antiferromagnetic Van der Waals Phase in Topological Insulator/Ferromagnet Heterostructures Synthesized by a CMOS-Compatible Sputtering Technique. <i>Advanced Materials</i> , 2022, 34, e2108790.	11.1	9
146	Effect of rapid thermal annealing on microstructural, magnetic, and microwave properties of FeGaB alloy films. <i>Journal of Applied Physics</i> , 2010, 107, 09D909.	1.1	8
147	Scanning Microwave Microscopy Characterization of Spin-Spray-Deposited Ferrite/Nonmagnetic Films. <i>Journal of Electronic Materials</i> , 2012, 41, 530-534.	1.0	8
148	Control of magnetic relaxation by electric-field-induced ferroelectric phase transition and inhomogeneous domain switching. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	8
149	Study of non-equilibrium thermal transport in Ge ₂ Sb ₂ Te ₅ thin films under ultrafast laser excitation using a photo-excited carrier integrated semiconductor model. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	8
150	Magneto-electric interactions in composites of self-biased Y- and W-type hexagonal ferrites and lead zirconate titanate: Experiment and theory. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	8
151	The effect of boron addition on the atomic structure and microwave magnetic properties of FeGaB thin films. <i>Journal of Applied Physics</i> , 2009, 105, 07A323.	1.1	7
152	Magnetic anisotropy and spin wave relaxation in CoFe/PtMn/CoFe trilayer films. <i>Journal of Applied Physics</i> , 2009, 105, 073910.	1.1	7
153	Inductive magnetic harvester with resonant capacitive rectifier based on synchronized switch harvesting technique. , 2013, , .		7
154	CoFe ₂ /Al ₂ O ₃ /PMNPT multiferroic heterostructures by atomic layer deposition. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	7
155	Voltage-Driven 180° Magnetization Switching in Magnetoelectric Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	1.2	7
156	Voltage control of magnetism in NiZn ferrite/mica/PMNPT heterostructure with giant tunability and narrow linewidth. <i>Applied Physics Letters</i> , 2018, 112, 192903.	1.5	7
157	NanoNeuroRFID: A Low Loss Brain Implantable Device Based on Magnetoelectric Antenna. , 2018, , .		7
158	Curvature and Stress Effects on the Performance of Contour-Mode Resonant $\hat{\mu}$ Effect Magnetometers. <i>Advanced Materials Technologies</i> , 2021, 6, 2100294.	3.0	7
159	Magnetoelectric Antenna for Miniaturized Acoustic Noise Dosimetry Applications. , 2021, 5, 1-4.		7
160	Pulsed laser ablation deposition of nanocrystalline exchange-coupled Ni ₁₁ Co ₁₁ Fe ₆₇ ~ ^x Zr ₇ B ₄ Cu _x (x=0,1) films for planar inductor applications. <i>Journal of Applied Physics</i> , 2007, 101, 09M519.	1.1	6
161	Ultrafast optical study of spin wave resonance and relaxation in a CoFe/PtMn/CoFe trilayer film. <i>Journal of Applied Physics</i> , 2009, 105, 07D304.	1.1	6
162	Structural, Electronic, and Optical Properties of Functional Metal Oxides. <i>Advances in Condensed Matter Physics</i> , 2014, 2014, 1-2.	0.4	6

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163	Quasi magnetic isotropy and microwave performance of FeCoB multilayer laminated by uniaxial anisotropic layers. <i>Journal of Applied Physics</i> , 2014, 115, 17A310.	1.1	6
164	Chip-scale thermal energy harvester using Bi ₂ Te ₃ . , 2015, , .		6
165	An integrated tunable isolator based on NiZn film fabricated by spin-spray plating. <i>AIP Advances</i> , 2018, 8, .	0.6	6
166	Novel Ultra-Wide Band (10 MHz~26 GHz) Permeability Measurements for Magnetic Films. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	1.2	6
167	Phase/RMS maximum power point tracking for inductive energy harvesting system. , 2015, , .		5
168	Tunable RF band-pass filters based on NEMS magnetoelectric resonators. , 2016, , .		5
169	Integrated Magnetics and Magnetoelectrics for Sensing, Power, RF, and Microwave Electronics. <i>IEEE Journal of Microwaves</i> , 2021, 1, 908-929.	4.9	5
170	Growth behaviors and characteristics of low temperature spin-sprayed ZnO and Al-doped ZnO microstructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2058-2066.	1.1	4
171	Design of a magnetization gradient ferrite substrate integrated waveguide isolator to mitigate higher order mode effects. , 2013, , .		4
172	Power-efficient voltage tunable RF integrated magnetoelectric inductors with FeGaB/Al₂O₃ multilayer films. , 2014, , .		4
173	Magnetic and Electrical Properties of Zr-rich (1-x)PZT+xBiFeO₃ Ceramics. <i>Ferroelectrics</i> , 2015, 489, 27-34.	0.3	4
174	Voltage-impulse-induced dual-range nonvolatile magnetization modulation in metglas/PZT heterostructure. <i>Applied Physics Letters</i> , 2016, 109, 202903.	1.5	4
175	Application of Bayesian Optimization and Regression Analysis to Ferromagnetic Materials Development. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-8.	1.2	4
176	A 30% Efficient High-Output Voltage Fully Integrated Self-Biased Gate RF Rectifier Topology for Neural Implants. <i>IEEE Journal of Solid-State Circuits</i> , 2022, 57, 3324-3335.	3.5	4
177	Small global positioning system patch antennas with self-biased NiCo ferrite films. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 1162-1165.	0.9	3
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