Nian Sun

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189
papers

5,994
citations

4.6
ext. papers

6,972
ext. citations

4.6
avg, IF

5,74
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#	Paper	IF	Citations
189	Giant Electric Field Tuning of Magnetic Properties in Multiferroic Ferrite/Ferroelectric Heterostructures. <i>Advanced Functional Materials</i> , 2009 , 19, 1826-1831	15.6	349
188	Giant Electric Field Tuning of Magnetism in Novel Multiferroic FeGaB/Lead Zinc Niobatellead Titanate (PZN-PT) Heterostructures. <i>Advanced Materials</i> , 2009 , 21, 4711-4715	24	239
187	VOLTAGE CONTROL OF MAGNETISM IN MULTIFERROIC HETEROSTRUCTURES AND DEVICES. <i>Spin</i> , 2012 , 02, 1240004	1.3	218
186	Self-biased 215 MHz magnetoelectric NEMS resonator for ultra-sensitive DC magnetic field detection. <i>Scientific Reports</i> , 2013 , 3, 1985	4.9	189
185	Quantification of strain and charge co-mediated magnetoelectric coupling on ultra-thin Permalloy/PMN-PT interface. <i>Scientific Reports</i> , 2014 , 4, 3688	4.9	163
184	Voltage tuning of ferromagnetic resonance with bistable magnetization switching in energy-efficient magnetoelectric composites. <i>Advanced Materials</i> , 2013 , 25, 1435-9	24	162
183	Acoustically actuated ultra-compact NEMS magnetoelectric antennas. <i>Nature Communications</i> , 2017 , 8, 296	17.4	158
182	Ba-hexaferrite films for next generation microwave devices (invited). <i>Journal of Applied Physics</i> , 2006 , 99, 08M911	2.5	147
181	E-Field Control of Exchange Bias and Deterministic Magnetization Switching in AFM/FM/FE Multiferroic Heterostructures. <i>Advanced Functional Materials</i> , 2011 , 21, 2593-2598	15.6	132
180	Comparison of spin-orbit torques and spin pumping across NiFe/Pt and NiFe/Cu/Pt interfaces. <i>Physical Review B</i> , 2015 , 91,	3.3	128
179	Electrostatically tunable magnetoelectric inductors with large inductance tunability. <i>Applied Physics Letters</i> , 2009 , 94, 112508	3.4	127
178	Soft magnetism, magnetostriction, and microwave properties of FeGaB thin films. <i>Applied Physics Letters</i> , 2007 , 91, 182504	3.4	121
177	Challenges and opportunities for multi-functional oxide thin films for voltage tunable radio frequency/microwave components. <i>Journal of Applied Physics</i> , 2013 , 114, 191301	2.5	111
176	Electrical tuning of magnetism in Fe3O4/PZN B T multiferroic heterostructures derived by reactive magnetron sputtering. <i>Journal of Applied Physics</i> , 2010 , 107, 073916	2.5	109
175	Small Ultra-Wideband (UWB) Bandpass Filter With Notched Band. <i>IEEE Microwave and Wireless Components Letters</i> , 2008 , 18, 176-178	2.6	105
174	Voltage control of magnetism in multiferroic heterostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20120439	3	102
173	Highly Sensitive Flexible Magnetic Sensor Based on Anisotropic Magnetoresistance Effect. <i>Advanced Materials</i> , 2016 , 28, 9370-9377	24	101

(2015-2008)

172	Giant microwave tunability in FeGaB/lead magnesium niobate-lead titanate multiferroic composites. <i>Applied Physics Letters</i> , 2008 , 92, 262502	3.4	93	
171	Electric field modulation of magnetoresistance in multiferroic heterostructures for ultralow power electronics. <i>Applied Physics Letters</i> , 2011 , 98, 222509	3.4	89	
170	Bias Field Effects on Microwave Frequency Behavior of PZT/YIG Magnetoelectric Bilayer. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3343-3345	2	80	
169	Probing electric field control of magnetism using ferromagnetic resonance. <i>Nature Communications</i> , 2015 , 6, 6082	17.4	77	
168	Recent advances in multiferroic oxide heterostructures and devices. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 234-243	7.1	76	
167	Deterministic Switching of Perpendicular Magnetic Anisotropy by Voltage Control of Spin Reorientation Transition in (Co/Pt)/Pb(MgNb)O-PbTiO Multiferroic Heterostructures. <i>ACS Nano</i> , 2017 , 11, 4337-4345	16.7	69	
166	Voltage impulse induced bistable magnetization switching in multiferroic heterostructures. <i>Applied Physics Letters</i> , 2012 , 100, 132409	3.4	69	
165	Giant magnetoelectric coupling and E-field tunability in a laminated Ni2MnGa/lead-magnesium-niobate-lead titanate multiferroic heterostructure. <i>Applied Physics Letters</i> , 2008 , 93, 112502	3.4	69	
164	Ultra-sensitive NEMS magnetoelectric sensor for picotesla DC magnetic field detection. <i>Applied Physics Letters</i> , 2017 , 110, 143510	3.4	60	
163	Wide Band Low Noise Love Wave Magnetic Field Sensor System. <i>Scientific Reports</i> , 2018 , 8, 278	4.9	60	
162	Voltage control of metal-insulator transition and non-volatile ferroelastic switching of resistance in VOx/PMN-PT heterostructures. <i>Scientific Reports</i> , 2014 , 4, 5931	4.9	60	
161	High Resolution Magnetometer Based on a High Frequency Magnetoelectric MEMS-CMOS Oscillator. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 134-143	2.5	58	
160	Tunable Miniaturized Patch Antennas With Self-Biased Multilayer Magnetic Films. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 2190-2193	4.9	58	
159	Coexistence of Low Damping and Strong Magnetoelastic Coupling in Epitaxial Spinel Ferrite Thin Films. <i>Advanced Materials</i> , 2017 , 29, 1701130	24	56	
158	Electrically induced enormous magnetic anisotropy in Terfenol-D/lead zinc niobate-lead titanate multiferroic heterostructures. <i>Journal of Applied Physics</i> , 2012 , 112, 063917	2.5	53	
157	Pseudomorphic Yttrium Iron Garnet Thin Films With Low Damping and Inhomogeneous Linewidth Broadening. <i>IEEE Magnetics Letters</i> , 2015 , 6, 1-4	1.6	52	
156	Electrostatic tuning of ferromagnetic resonance and magnetoelectric interactions in ferrite-piezoelectric heterostructures grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2011 , 99, 192502	3.4	52	
155	Interfacial charge-mediated non-volatile magnetoelectric coupling in Collectific Reports, 2015 , 5, 7740	4.9	50	

154	Electronically Tunable Miniaturized Antennas on Magnetoelectric Substrates With Enhanced Performance. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3091-3094	2	45
153	. IEEE Transactions on Antennas and Propagation, 2010 , 58, 648-655	4.9	44
152	Strong magnetoelectric coupling in ferrite/ferroelectric multiferroic heterostructures derived by low temperature spin-spray deposition. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 045007	3	42
151	Significantly Enhanced Inductance and Quality Factor of GHz Integrated Magnetic Solenoid Inductors With FeGaB/ \${rm Al}_{2}{rm O}_{3}\$ Multilayer Films. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1470-1476	2.9	39
150	Tunable Bandpass Filter Using Partially Magnetized Ferrites With High Power Handling Capability. <i>IEEE Microwave and Wireless Components Letters</i> , 2013 , 23, 184-186	2.6	39
149	Voltage control of magnetism in FeGaB/PIN-PMN-PT multiferroic heterostructures for high-power and high-temperature applications. <i>Applied Physics Letters</i> , 2015 , 106, 022901	3.4	39
148	Electrically controlled non-volatile switching of magnetism in multiferroic heterostructures via engineered ferroelastic domain states. <i>NPG Asia Materials</i> , 2016 , 8, e316-e316	10.3	39
147	. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019 , 3, 206-215	2.8	36
146	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	3.8	36
145	Highly Sensitive DC Magnetic Field Sensor Based on Nonlinear ME Effect 2017 , 1, 1-4		36
144	A Review of Thin-Film Magnetoelastic Materials for Magnetoelectric Applications. <i>Sensors</i> , 2020 , 20,	3.8	35
143	Anisotropic spin-orbit torque generation in epitaxial SrIrO by symmetry design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16186-16191	11.5	35
142	Compact and Low Loss Phase Shifter With Low Bias Field Using Partially Magnetized Ferrite. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3882-3885	2	35
141	High-Bandwidth Low-Insertion Loss Solenoid Transformers Using FeCoB Multilayers. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 4395-4401	7.2	35
140	Characterization of magnetomechanical properties in FeGaB thin films. <i>Applied Physics Letters</i> , 2018 , 113, 262401	3.4	35
139	Ultrawideband (UWB) Antennas With Multiresonant Split-Ring Loops. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 256-260	4.9	32
138	. IEEE Transactions on Microwave Theory and Techniques, 2012 , 60, 3959-3968	4.1	31
137	Spin-spray deposited multiferroic composite Ni0.23Fe2.77O4Pb(Zr,Ti)O3 with strong interface adhesion. <i>Applied Physics Letters</i> , 2008 , 92, 152504	3.4	30

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136	Mechanical-Resonance-Enhanced Thin-Film Magnetoelectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. <i>Materials</i> , 2019 , 12,	3.5	29	
135	Voltage Tunable Magnetoelectric Inductors With Improved Operational Frequency and Quality Factor for Power Electronics. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-5	2	29	
134	Quantifying thickness-dependent charge mediated magnetoelectric coupling in magnetic/dielectric thin film heterostructures. <i>Applied Physics Letters</i> , 2013 , 103, 232906	3.4	29	
133	RF Magnetic Properties of FeCoB/Al\$_{2}\$O \$_{3}\$/FeCoB Structure With Varied Al\$_{2}\$ O\$_{3}\$ Thickness. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 3104-3107	2	29	
132	Inequivalence of direct and converse magnetoelectric coupling at electromechanical resonance. <i>Applied Physics Letters</i> , 2013 , 103, 182905	3.4	28	
131	Ultra-compact dual-band smart NEMS magnetoelectric antennas for simultaneous wireless energy harvesting and magnetic field sensing. <i>Nature Communications</i> , 2021 , 12, 3141	17.4	28	
130	Voltage Control of Perpendicular Magnetic Anisotropy in Multiferroic (Co/Pt)3/PbMg1/3Nb2/3O3PbTiO3 Heterostructures. <i>Physical Review Applied</i> , 2017 , 8,	4.3	26	
129	Voltage Tunable Multiferroic Phase Shifter With YIG/PMN-PT Heterostructure. <i>IEEE Microwave and Wireless Components Letters</i> , 2014 , 24, 191-193	2.6	26	
128	Equivalence of direct and converse magnetoelectric coefficients in strain-coupled two-phase systems. <i>Applied Physics Letters</i> , 2012 , 100, 102907	3.4	26	
127	Magnetoelectric materials and devices. APL Materials, 2021, 9, 041114	5.7	26	
126	Dual H- and E-Field Tunable Multiferroic Bandpass Filter at \${rm K}_{U}\$-Band Using Partially Magnetized Spinel Ferrites. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5485-5488	2	25	
125	Spin-spray deposited NiZn-Ferrite films exhibiting E? > 50 at GHz range. <i>Journal of Applied Physics</i> , 2011 , 109, 07E527	2.5	25	
124	E-field Control of the RKKY Interaction in FeCoB/Ru/FeCoB/PMN-PT (011) Multiferroic Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1803612	24	24	
123	Large E-field tunability of microwave ferromagnetic properties in Fe59.3Co28.0Hf12.7/PZN-PT multiferroic composites. <i>Journal of Applied Physics</i> , 2014 , 115, 17C723	2.5	24	
122	A quantitative model for the nonlinear response of fluxgate magnetometers. <i>Journal of Applied Physics</i> , 2006 , 99, 08B316	2.5	24	
121	Microwave tunability in a GaAs-based multiferroic heterostructure: Co2MnAl/GaAs/PMN-PT. <i>Journal of Applied Physics</i> , 2009 , 105, 07A510	2.5	23	
120	Tunable magnetoresistance devices based on multiferroic heterostructures. <i>Journal of Applied Physics</i> , 2011 , 109, 07D913	2.5	23	
119	Spin-orbit torque and spin pumping in YIG/Pt with interfacial insertion layers. <i>Applied Physics Letters</i> , 2018 , 112, 182406	3.4	22	

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Giant electric field control of magnetism and narrow ferromagnetic resonance linewidth in

FeCoSiB/Si/SiO2/PMN-PT multiferroic heterostructures. Applied Physics Letters, 2016, 108, 232903

Transactions on Magnetics, 2009, 45, 4191-4194

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(2018-2018)

100	Integrated magnetoelectric devices: Filters, pico-Tesla magnetometers, and ultracompact acoustic antennas. <i>MRS Bulletin</i> , 2018 , 43, 841-847	3.2	17	
99	The memory effect of magnetoelectric coupling in FeGaB/NiTi/PMN-PT multiferroic heterostructure. <i>Scientific Reports</i> , 2016 , 6, 20450	4.9	16	
98	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	4.1	16	
97	Novel Compact and Low-Loss Phase Shifters With Magnetodielectric Disturber. <i>IEEE Microwave and Wireless Components Letters</i> , 2011 , 21, 240-242	2.6	16	
96	Subterahertz ferrimagnetic spin-transfer torque oscillator. <i>Physical Review B</i> , 2019 , 100,	3.3	15	
95	E-field tuning microwave frequency performance of Co2FeSi/lead zinc niobatelead titanate magnetoelectric coupling composites. <i>Journal of Applied Physics</i> , 2012 , 111, 07C705	2.5	15	
94	. IEEE Magnetics Letters, 2019 , 10, 1-5	1.6	15	
93	Highly sensitive integrated flexible tactile sensors with piezoresistive Ge 2 Sb2Te5 thin films. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	14	
92	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	2.1	14	
91	Stress competition and vortex magnetic anisotropy in FeCoAlO high-frequency soft magnetic films with gradient Al-O contents. <i>Journal of Applied Physics</i> , 2013 , 113, 17A332	2.5	14	
90	Design of Tunable Bandpass Filters With Ferrite Sandwich Materials by Using a Piezoelectric Transducer. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 3732-3735	2	13	
89	Giant nonreciprocity of surface acoustic waves enabled by the magnetoelastic interaction. <i>Science Advances</i> , 2020 , 6,	14.3	12	
88	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	2.1	12	
87	High quality factor integrated gigahertz magnetic transformers with FeGaB/Al2O3 multilayer films for radio frequency integrated circuits applications. <i>Journal of Applied Physics</i> , 2014 , 115, 17E714	2.5	12	
86	Soft magnetism and microwave magnetic properties of Fe-Co-Hf films deposited by composition gradient sputtering. <i>Journal of Applied Physics</i> , 2011 , 109, 07A315	2.5	12	
85	A passive isolator realized by magnetoelectric laminate composites. <i>Applied Physics Letters</i> , 2018 , 113, 262904	3.4	12	
84	A novel NiZn ferrite integrated magnetic solenoid inductor with a high quality factor at 0.7 B GHz. <i>AIP Advances</i> , 2017 , 7, 056606	1.5	11	
83	Experimental Characterization of Microfabricated Thermoelectric Energy Harvesters for Smart Sensor and Wearable Applications. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700383	6.8	11	

82	Interfacial orbital preferential occupation induced controllable uniaxial magnetic anisotropy observed in Ni/NiO(110) heterostructures. <i>Npj Quantum Materials</i> , 2017 , 2,	5	11
81	Permittivity and Permeability Measurement of Spin-Spray Deposited Ni-Zn-Ferrite Thin Film Sample. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4085-4088	2	11
80	Ferromagnetic resonance studies of surface and bulk spin-wave modes in a CoFe P tMn t oFe multilayer film. <i>Journal of Applied Physics</i> , 2008 , 103, 07B525	2.5	11
79	BaTiO3/PVDF-g-PSSA composite proton exchange membranes for vanadium redox flow battery. <i>Ceramics International</i> , 2015 , 41, S758-S762	5.1	10
78	All-Optical Helicity-Dependent Switching in Hybrid Metal E erromagnet Thin Films. <i>Advanced Optical Materials</i> , 2020 , 8, 2000379	8.1	10
77	Advances in Magnetics Epitaxial Multiferroic Heterostructures and Applications. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-16	2	10
76	Fabrication and Characterization of Bi2Te3-Based Chip-Scale Thermoelectric Energy Harvesting Devices. <i>Journal of Electronic Materials</i> , 2017 , 46, 2844-2846	1.9	10
75	Tunable Ultrawideband Phase Shifters With Magnetodielectric Disturber Controlled by a Piezoelectric Transducer. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	10
74	Optimum design of magnetic inductive energy harvester and its AC-DC converter 2012,		10
73	Electric-field control of spin dynamics during magnetic phase transitions. Science Advances, 2020, 6,	14.3	10
72	All-Optical Manipulation of Magnetization in Ferromagnetic Thin Films Enhanced by Plasmonic Resonances. <i>Nano Letters</i> , 2020 , 20, 6437-6443	11.5	10
71	Magnetostriction, Soft Magnetism, and Microwave Properties in Colle© Alloy Films. <i>Physical Review Applied</i> , 2019 , 12,	4.3	9
70	Voltage Tuning of Ferromagnetic Resonance and Linewidth in Spinel Ferrite/Ferroelectric Multiferroic Heterostructures. <i>IEEE Magnetics Letters</i> , 2015 , 6, 1-4	1.6	9
69	Controllable synthesis and upconversion luminescenceof NaYF4:Yb3+, Er3+ nanocrystals. <i>Ceramics International</i> , 2015 , 41, S713-S718	5.1	9
68	Electric field modulation of surface anisotropy and magneto-dynamics in multiferroic heterostructures. <i>Journal of Applied Physics</i> , 2011 , 109, 07D731	2.5	9
67	Voltage-Driven Nonlinearity in Magnetoelectric Heterostructures. <i>Physical Review Applied</i> , 2019 , 12,	4.3	8
66	Scanning Microwave Microscopy Characterization of Spin-Spray-Deposited Ferrite/Nonmagnetic Films. <i>Journal of Electronic Materials</i> , 2012 , 41, 530-534	1.9	8

(2013-2010)

64	Effect of rapid thermal annealing on microstructural, magnetic, and microwave properties of FeGaB alloy films. <i>Journal of Applied Physics</i> , 2010 , 107, 09D909	2.5	8	
63	Excessive grain boundary conductivity of spin-spray deposited ferrite/non-magnetic multilayer. <i>Journal of Applied Physics</i> , 2012 , 111, 07A512	2.5	8	
62	Novel electrostatically tunable FeGaB/(Si)/PMN-PT multiferroic heterostructures for microwave application 2009,		8	
61	Control of magnetic relaxation by electric-field-induced ferroelectric phase transition and inhomogeneous domain switching. <i>Applied Physics Letters</i> , 2016 , 108, 012406	3.4	8	
60	. IEEE Transactions on Magnetics, 2021 , 57, 1-57	2	8	
59	Spin-orbital coupling induced four-fold anisotropy distribution during spin reorientation in ultrathin Co/Pt multilayers. <i>Applied Physics Letters</i> , 2017 , 110, 022403	3.4	7	
58	A Molecularly Imprinted Polymer-Graphene Sensor Antenna Hybrid for Ultra Sensitive Chemical Detection. <i>IEEE Sensors Journal</i> , 2019 , 19, 6571-6577	4	7	
57	Enhancing ground plane immunity of dipole antennas with spin®pray-deposited lossy ferrite films. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 230-233	1.2	7	
56	Ferrite-Coupled Line Circulator Simulations For Application at X-Band Frequency. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2639-2641	2	7	
55	Voltage-Driven 180 [®] Magnetization Switching in Magnetoelectric Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	6	
54	Enhancing the soft magnetic properties of FeGa with a non-magnetic underlayer for microwave applications. <i>Applied Physics Letters</i> , 2020 , 116, 222404	3.4	6	
53	Lightweight and Construable Magnetic Wood for Electromagnetic Interference Shielding. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000257	3.5	6	
52	Underlayer effect on the soft magnetic, high frequency, and magnetostrictive properties of FeGa thin films. <i>Journal of Applied Physics</i> , 2020 , 128, 013903	2.5	6	
51	A Molecularly Imprinted Electrochemical Gas Sensor to Sense Butylated Hydroxytoluene in Air. <i>Journal of Sensors</i> , 2018 , 2018, 1-9	2	6	
50	Integrated Tunable Bandstop Filter Using Self-Biased FeGaB/Al2O3 Multilayer Thin Film. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	6	
49	Voltage control of magnetism in NiZn ferrite/mica/PMNPT heterostructure with giant tunability and narrow linewidth. <i>Applied Physics Letters</i> , 2018 , 112, 192903	3.4	6	
48	Quasi magnetic isotropy and microwave performance of FeCoB multilayer laminated by uniaxial anisotropic layers. <i>Journal of Applied Physics</i> , 2014 , 115, 17A310	2.5	6	
47	Inductive magnetic harvester with resonant capacitive rectifier based on synchronized switch harvesting technique 2013 ,		6	

46	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	2.5	6
45	Magnetic anisotropy and spin wave relaxation in CoFe/PtMn/CoFe trilayer films. <i>Journal of Applied Physics</i> , 2009 , 105, 073910	2.5	6
44	Pulsed laser ablation deposition of nanocrystalline exchange-coupled Ni11Co11Fe67\(\mathbb{Z}\)Zr7B4Cux (x=0,1) films for planar inductor applications. <i>Journal of Applied Physics</i> , 2007 , 101, 09M519	2.5	6
43	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	2.5	5
42	Tunable RF band-pass filters based on NEMS magnetoelectric resonators 2016,		5
41	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, 114102	2.5	4
40	Novel Ultra-Wide Band (10 MHz 2 6 GHz) Permeability Measurements for Magnetic Films. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	4
39	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	2.1	4
38	MEMS resonant magnetic field sensor based on an AlN/FeGaB bilayer nano-plate resonator 2013,		4
37	Magnetic and Electrical Properties of Zr-rich (1-x)PZT+xBiFeO3 Ceramics. <i>Ferroelectrics</i> , 2015 , 489, 27-3	4 0.6	4
36	Structural, Electronic, and Optical Properties of Functional Metal Oxides. <i>Advances in Condensed Matter Physics</i> , 2014 , 2014, 1-2	1	4
35	Topological Antiferromagnetic van der Waals Phase in Topological Insulator/Ferromagnet Heterostructures Synthesized by CMOS-Compatible Sputtering Technique <i>Advanced Materials</i> , 2022 , e2108790	24	4
34	Curvature and Stress Effects on the Performance of Contour-Mode Resonant E Effect Magnetometers <i>Advanced Materials Technologies</i> , 2021 , 6, 2100294	6.8	4
33	CoFe2/Al2O3/PMNPT multiferroic heterostructures by atomic layer deposition. <i>Applied Physics Letters</i> , 2016 , 108, 182907	3.4	4
32	Magnetoelectric phase transition driven by interfacial-engineered Dzyaloshinskii-Moriya interaction. <i>Nature Communications</i> , 2021 , 12, 5453	17.4	4
31	NanoNeuroRFID: A Low Loss Brain Implantable Device Based on Magnetoelectric Antenna 2018,		3
30	Study of non-equilibrium thermal transport in Ge2Sb2Te5 thin films under ultrafast laser excitation using a photo-excited carrier integrated semiconductor model. <i>Journal of Applied Physics</i> , 2017 , 122, 043104	2.5	3
29	Phase/RMS maximum power point tracking for inductive energy harvesting system 2015,		3

28	Chip-scale thermal energy harvester using Bi2Te3 2015 ,		3
27	E-Field Tuned Rotation of Magnetic Anisotropy and Enhanced Microwave Performance in FeCoAlO/PZNBT Multiferroic Composite Prepared by Composition Gradient Sputtering. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	3
26	The development of microfabricated solenoids with magnetic cores for micromagnetic neural stimulation. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 91	7.7	3
25	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	1.2	3
24	Modeling of Magnetoelectric Antennas for Circuit Simulations in Magnetic Sensing Applications 2020 ,		3
23	A Radio Frequency Magnetoelectric Antenna Prototyping Platform for Neural Activity Monitoring Devices with Sensing and Energy Harvesting Capabilities. <i>Electronics (Switzerland)</i> , 2020 , 9, 2123	2.6	3
22	Band-notched ultrawide band antenna loaded with ferrite slab. AIP Advances, 2017, 7, 056408	1.5	2
21	An integrated tunable isolator based on NiZn film fabricated by spin-spray plating. <i>AIP Advances</i> , 2018 , 8, 056620	1.5	2
20	Electric Field Tuning Ferromagnetic Resonance Frequency Shift in Oblique Sputtered Fe42Co46Hf12/PZN-PT Multiferroic Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	2
19	Nonvolatile Modulation Effects of Electric Field on the Magnetic and Electric Properties in LataMnO3/PMN-PT Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
18	Power-efficient voltage tunable RF integrated magnetoelectric inductors with FeGaB/Al2O3 multilayer films 2014 ,		2
17	Non-reciprocal tunable low-loss bandpass filters with ultra-wideband isolation based on magnetostatic surface wave 2012 ,		2
16	Design of a magnetization gradient ferrite substrate integrated waveguide isolator to mitigate higher order mode effects 2013 ,		2
15	Large Field-Induced Magnetocaloric Effect in Ni\$_{43}\$ Mn\$_{46 - {rm x}}\$V\$_{rm x}\$Sn\$_{11}\$ Heusler Alloys. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3985-3988	2	2
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