

Nian Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

189
papers

5,994
citations

39
h-index

71
g-index

197
ext. papers

6,972
ext. citations

4.6
avg, IF

5.74
L-index

#	Paper	IF	Citations
189	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
188	The development of microfabricated solenoids with magnetic cores for micromagnetic neural stimulation. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 91	7.7	3
187	Application of Bayesian Optimization and Regression Analysis to Ferromagnetic Materials Development. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	0
186	Magnetoelectric materials and devices. <i>APL Materials</i> , 2021 , 9, 041114	5.7	26
185	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
184	Curvature and Stress Effects on the Performance of Contour-Mode Resonant π Effect Magnetometers.. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100294	6.8	4
183	Multiferroic Composites 2021 , 225-240		1
182	. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-57	2	8
181	Thermal annealing on the soft magnetism, microwave properties, and magnetostriction in Co-Fe-C alloy films. <i>Journal of Alloys and Compounds</i> , 2021 , 874, 159783	5.7	1
180	Magnetoelectric phase transition driven by interfacial-engineered Dzyaloshinskii-Moriya interaction. <i>Nature Communications</i> , 2021 , 12, 5453	17.4	4
179	Magnetoelectric Antenna for Miniaturized Acoustic Noise Dosimetry Applications 2021 , 5, 1-4		0
178	Integrated Magnetics and Magnetoelectrics for Sensing, Power, RF, and Microwave Electronics. <i>IEEE Journal of Microwaves</i> , 2021 , 1-22		1
177	Magnetoelectric (ME) Antenna for On-chip Implantable Energy Harvesting. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 6167-6170	0.9	
176	Giant nonreciprocity of surface acoustic waves enabled by the magnetoelastic interaction. <i>Science Advances</i> , 2020 , 6,	14.3	12
175	All-Optical Helicity-Dependent Switching in Hybrid Metal/Ferromagnet Thin Films. <i>Advanced Optical Materials</i> , 2020 , 8, 2000379	8.1	10
174	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
173	Lightweight and Construable Magnetic Wood for Electromagnetic Interference Shielding. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000257	3.5	6

172	A Review of Thin-Film Magnetoelastic Materials for Magnetolectric Applications. <i>Sensors</i> , 2020 , 20,	3.8	35
171	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
170	A Portable Very Low Frequency (VLF) Communication System Based on Acoustically Actuated Magnetolectric Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 398-402	3.8	36
169	Electric-field control of spin dynamics during magnetic phase transitions. <i>Science Advances</i> , 2020 , 6,	14.3	10
168	Integration of a Novel CMOS-Compatible Magnetolectric 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
167	All-Optical Manipulation of Magnetization in Ferromagnetic Thin Films Enhanced by Plasmonic Resonances. <i>Nano Letters</i> , 2020 , 20, 6437-6443	11.5	10
166	Ultra-compact mechanical antennas. <i>Applied Physics Letters</i> , 2020 , 117, 170501	3.4	19
165	Modeling of Magnetolectric Antennas for Circuit Simulations in Magnetic Sensing Applications 2020 ,		3
164	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	2.6	3
163	Magnetostriction, Soft Magnetism, and Microwave Properties in CoFe ₂ Alloy Films. <i>Physical Review Applied</i> , 2019 , 12,	4.3	9
162	Subterahertz ferrimagnetic spin-transfer torque oscillator. <i>Physical Review B</i> , 2019 , 100,	3.3	15
161	Voltage-Driven Nonlinearity in Magnetolectric Heterostructures. <i>Physical Review Applied</i> , 2019 , 12,	4.3	8
160	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
159	A Molecularly Imprinted Polymer-Graphene Sensor Antenna Hybrid for Ultra Sensitive Chemical Detection. <i>IEEE Sensors Journal</i> , 2019 , 19, 6571-6577	4	7
158	. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2019 , 3, 206-215	2.8	36
157	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
156	Mechanical-Resonance-Enhanced Thin-Film Magnetolectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. <i>Materials</i> , 2019 , 12,	3.5	29
155	A low-power and high-sensitivity magnetic field sensor based on converse magnetolectric effect. <i>Applied Physics Letters</i> , 2019 , 115, 162901	3.4	17

154	A Strain-Mediated Magnetoelectric-Spin-Torque Hybrid Structure. <i>Advanced Functional Materials</i> , 2019 , 29, 1806371	15.6	19
153	. <i>IEEE Magnetics Letters</i> , 2019 , 10, 1-5	1.6	15
152	Experimental Characterization of Microfabricated Thermoelectric Energy Harvesters for Smart Sensor and Wearable Applications. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700383	6.8	11
151	Wide Band Low Noise Love Wave Magnetic Field Sensor System. <i>Scientific Reports</i> , 2018 , 8, 278	4.9	60
150	Spin-orbit torque and spin pumping in YIG/Pt with interfacial insertion layers. <i>Applied Physics Letters</i> , 2018 , 112, 182406	3.4	22
149	An integrated tunable isolator based on NiZn film fabricated by spin-spray plating. <i>AIP Advances</i> , 2018 , 8, 056620	1.5	2
148	A Molecularly Imprinted Electrochemical Gas Sensor to Sense Butylated Hydroxytoluene in Air. <i>Journal of Sensors</i> , 2018 , 2018, 1-9	2	6
147	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	2	6
146	Novel Ultra-Wide Band (10 MHz–6 GHz) Permeability Measurements for Magnetic Films. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	4
145	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
144	NanoNeuroRFID: A Low Loss Brain Implantable Device Based on Magnetoelectric Antenna 2018 ,		3
143	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
142	Highly sensitive integrated flexible tactile sensors with piezoresistive Ge ₂ Sb ₂ Te ₅ thin films. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	14
141	Integrated magnetoelectric devices: Filters, pico-Tesla magnetometers, and ultracompact acoustic antennas. <i>MRS Bulletin</i> , 2018 , 43, 841-847	3.2	17
140	A passive isolator realized by magnetoelectric laminate composites. <i>Applied Physics Letters</i> , 2018 , 113, 262904	3.4	12
139	Characterization of magnetomechanical properties in FeGaB thin films. <i>Applied Physics Letters</i> , 2018 , 113, 262401	3.4	35
138	Integrated ferroics for sensing, power, RF, and μ -wave electronics. <i>Journal of Materials Research</i> , 2018 , 33, 4007-4017	2.5	2
137	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

136	Self-biased microwave ferromagnetic performance of patterned Ni ₈₀ Fe ₂₀ thin films. <i>AIP Advances</i> , 2017 , 7, 056301	1.5	1
135	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
134	Ultra-sensitive NEMS magnetoelectric sensor for picotesla DC magnetic field detection. <i>Applied Physics Letters</i> , 2017 , 110, 143510	3.4	60
133	Voltage-Driven 180° Magnetization Switching in Magnetoelectric Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	6
132	A novel NiZn ferrite integrated magnetic solenoid inductor with a high quality factor at 0.78 GHz. <i>AIP Advances</i> , 2017 , 7, 056606	1.5	11
131	Band-notched ultrawide band antenna loaded with ferrite slab. <i>AIP Advances</i> , 2017 , 7, 056408	1.5	2
130	Voltage Control of Perpendicular Magnetic Anisotropy in Multiferroic (Co/Pt) ₃ /PbMg _{1/3} Nb _{2/3} O ₃ /PbTiO ₃ Heterostructures. <i>Physical Review Applied</i> , 2017 , 8,	4.3	26
129	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, 043104	2.5	3
128	Acoustically actuated ultra-compact NEMS magnetoelectric antennas. <i>Nature Communications</i> , 2017 , 8, 296	17.4	158
127	Coexistence of Low Damping and Strong Magnetoelastic Coupling in Epitaxial Spinel Ferrite Thin Films. <i>Advanced Materials</i> , 2017 , 29, 1701130	24	56
126	Interfacial orbital preferential occupation induced controllable uniaxial magnetic anisotropy observed in Ni/NiO(110) heterostructures. <i>Npj Quantum Materials</i> , 2017 , 2,	5	11
125	Advances in Magnetism Epitaxial Multiferroic Heterostructures and Applications. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-16	2	10
124	Controlling the magnetic anisotropy in epitaxial Y ₃ Fe ₅ O ₁₂ films by manganese doping. <i>Physical Review B</i> , 2017 , 96,	3.3	19
123	Fabrication and Characterization of Bi ₂ Te ₃ -Based Chip-Scale Thermoelectric Energy Harvesting Devices. <i>Journal of Electronic Materials</i> , 2017 , 46, 2844-2846	1.9	10
122	Highly Sensitive DC Magnetic Field Sensor Based on Nonlinear ME Effect 2017 , 1, 1-4		36
121	Electric Field Tuning Ferromagnetic Resonance Frequency Shift in Oblique Sputtered Fe ₄₂ Co ₄₆ Hf ₁₂ /PZN-PT Multiferroic Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	2
120	Non-Volatile Ferroelectric Switching of Ferromagnetic Resonance in NiFe/PLZT Multiferroic Thin Film Heterostructures. <i>Scientific Reports</i> , 2016 , 6, 32408	4.9	20
119	The memory effect of magnetoelectric coupling in FeGaB/NiTi/PMN-PT multiferroic heterostructure. <i>Scientific Reports</i> , 2016 , 6, 20450	4.9	16

118	Recent advances in multiferroic oxide heterostructures and devices. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 234-243	7.1	76
117	Compact Slot Antenna With Low Dispersion for Ground Penetrating Radar Application. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 638-641	3.8	20
116	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	3.4	17
115	Voltage-impulse-induced dual-range nonvolatile magnetization modulation in metglas/PZT heterostructure. <i>Applied Physics Letters</i> , 2016 , 109, 202903	3.4	2
114	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
113	CoFe ₂ /Al ₂ O ₃ /PMNPT multiferroic heterostructures by atomic layer deposition. <i>Applied Physics Letters</i> , 2016 , 108, 182907	3.4	4
112	Highly Sensitive Flexible Magnetic Sensor Based on Anisotropic Magnetoresistance Effect. <i>Advanced Materials</i> , 2016 , 28, 9370-9377	24	101
111	Tunable RF band-pass filters based on NEMS magnetoelectric resonators 2016 ,		5
110	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
109	Interfacial charge-mediated non-volatile magnetoelectric coupling in Co _{0.9} Fe _{0.1} /Ba _{0.8} Br _{0.2} /TiO ₂ /Nb:SrTiO ₃ multiferroic heterostructures. <i>Scientific Reports</i> , 2015 , 5, 7740	4.9	50
108	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
107	Voltage Tuning of Ferromagnetic Resonance and Linewidth in Spinel Ferrite/Ferroelectric Multiferroic Heterostructures. <i>IEEE Magnetism Letters</i> , 2015 , 6, 1-4	1.6	9
106	BaTiO ₃ /PVDF-g-PSSA composite proton exchange membranes for vanadium redox flow battery. <i>Ceramics International</i> , 2015 , 41, S758-S762	5.1	10
105	Controllable synthesis and upconversion luminescence of NaYF ₄ :Yb ³⁺ , Er ³⁺ nanocrystals. <i>Ceramics International</i> , 2015 , 41, S713-S718	5.1	9
104	Novel Miniaturized Antenna Designs for In-traffic Air-coupled Ground Penetrating Radar Systems. <i>Journal of Environmental and Engineering Geophysics</i> , 2015 , 20, 71-79	1	1
103	Pseudomorphic Yttrium Iron Garnet Thin Films With Low Damping and Inhomogeneous Linewidth Broadening. <i>IEEE Magnetism Letters</i> , 2015 , 6, 1-4	1.6	52
102	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
101	Nonvolatile Modulation Effects of Electric Field on the Magnetic and Electric Properties in La _{0.7} Ta _{0.3} MnO ₃ /PMN-PT Heterostructures. <i>IEEE Transactions on Magnetism</i> , 2015 , 51, 1-4	2	2

100	Electric field induced reversible 180° magnetization switching through tuning of interfacial exchange bias along magnetic easy-axis in multiferroic laminates. <i>Scientific Reports</i> , 2015 , 5, 16480	4.9	20
99	Integrated non-reciprocal dual H- and E-Field tunable bandpass filter with ultra-wideband isolation 2015 ,		8
98	Phase/RMS maximum power point tracking for inductive energy harvesting system 2015 ,		3
97	Chip-scale thermal energy harvester using Bi ₂ Te ₃ 2015 ,		3
96	Magnetic and Electrical Properties of Zr-rich (1-x)PZT+xBiFeO ₃ Ceramics. <i>Ferroelectrics</i> , 2015 , 489, 27-34	4.6	4
95	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
94	Voltage Tunable Magnetolectric Inductors With Improved Operational Frequency and Quality Factor for Power Electronics. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-5	2	29
93	Probing electric field control of magnetism using ferromagnetic resonance. <i>Nature Communications</i> , 2015 , 6, 6082	17.4	77
92	Large E-field tunability of magnetic anisotropy and ferromagnetic resonance frequency of co-sputtered Fe ₅₀ Co ₅₀ -B film. <i>Journal of Applied Physics</i> , 2015 , 117, 17D702	2.5	22
91	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
90	Low-temperature spin spray deposited ferrite/piezoelectric thin film magnetolectric heterostructures with strong magnetolectric coupling. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1188-1192	2.1	12
89	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
88	Strong non-volatile voltage control of magnetism in magnetic/antiferroelectric magnetolectric heterostructures. <i>Applied Physics Letters</i> , 2014 , 104, 012905	3.4	22
87	Significantly Enhanced Inductance and Quality Factor of GHz Integrated Magnetic Solenoid Inductors With FeGaB/Al ₂ O ₃ Multilayer Films. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1470-1476	2.9	39
86	Voltage control of magnetism in multiferroic heterostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20120439	3	102
85	Large E-field tunability of microwave ferromagnetic properties in Fe _{59.3} Co _{28.0} Hf _{12.7} /PZN-PT multiferroic composites. <i>Journal of Applied Physics</i> , 2014 , 115, 17C723	2.5	24
84	Voltage control of metal-insulator transition and non-volatile ferroelastic switching of resistance in VO _x /PMN-PT heterostructures. <i>Scientific Reports</i> , 2014 , 4, 5931	4.9	60
83	Quantification of strain and charge co-mediated magnetolectric coupling on ultra-thin Permalloy/PMN-PT interface. <i>Scientific Reports</i> , 2014 , 4, 3688	4.9	163

82	Structural, Electronic, and Optical Properties of Functional Metal Oxides. <i>Advances in Condensed Matter Physics</i> , 2014 , 2014, 1-2	1	4
81	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, 17E714	2.5	12
80	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
79	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
78	Power-efficient voltage tunable RF integrated magnetolectric inductors with FeGaB/Al ₂ O ₃ multilayer films 2014 ,		2
77	Tunable Ultrawideband Phase Shifters With Magnetodielectric Disturber Controlled by a Piezoelectric Transducer. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	10
76	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
75	Dual H- and E-Field Tunable Multiferroic Bandpass Filter at $\{K\}_U$ -Band Using Partially Magnetized Spinel Ferrites. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5485-5488	2	25
74	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
73	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
72	MEMS resonant magnetic field sensor based on an AlN/FeGaB bilayer nano-plate resonator 2013 ,		4
71	High-Bandwidth Low-Insertion Loss Solenoid Transformers Using FeCoB Multilayers. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 4395-4401	7.2	35
70	Self-biased 215 MHz magnetolectric NEMS resonator for ultra-sensitive DC magnetic field detection. <i>Scientific Reports</i> , 2013 , 3, 1985	4.9	189
69	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
68	Voltage tuning of ferromagnetic resonance with bistable magnetization switching in energy-efficient magnetolectric composites. <i>Advanced Materials</i> , 2013 , 25, 1435-9	24	162
67	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, 17C727	2.5	17
66	Inequivalence of direct and converse magnetolectric coupling at electromechanical resonance. <i>Applied Physics Letters</i> , 2013 , 103, 182905	3.4	28
65	Quantifying thickness-dependent charge mediated magnetolectric coupling in magnetic/dielectric thin film heterostructures. <i>Applied Physics Letters</i> , 2013 , 103, 232906	3.4	29

64	Inductive magnetic harvester with resonant capacitive rectifier based on synchronized switch harvesting technique 2013 ,		6
63	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
62	Design of a magnetization gradient ferrite substrate integrated waveguide isolator to mitigate higher order mode effects 2013 ,		2
61	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	1.2	7
60	Scanning Microwave Microscopy Characterization of Spin-Spray-Deposited Ferrite/Nonmagnetic Films. <i>Journal of Electronic Materials</i> , 2012 , 41, 530-534	1.9	8
59	Non-reciprocal tunable low-loss bandpass filters with ultra-wideband isolation based on magnetostatic surface wave 2012 ,		2
58	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
57	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
56	Equivalence of direct and converse magnetoelectric coefficients in strain-coupled two-phase systems. <i>Applied Physics Letters</i> , 2012 , 100, 102907	3.4	26
55	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 3959-3968	4.1	31
54	Optimum design of magnetic inductive energy harvester and its AC-DC converter 2012 ,		10
53	Low moment NiCr radio frequency magnetic films for multiferroic heterostructures with strong magnetoelectric coupling. <i>Journal of Applied Physics</i> , 2012 , 111, 103915	2.5	17
52	E-field tuning microwave frequency performance of Co ₂ FeSi/lead zinc niobate/lead titanate magnetoelectric coupling composites. <i>Journal of Applied Physics</i> , 2012 , 111, 07C705	2.5	15
51	Excessive grain boundary conductivity of spin-spray deposited ferrite/non-magnetic multilayer. <i>Journal of Applied Physics</i> , 2012 , 111, 07A512	2.5	8
50	A new highly sensitive broadband ferromagnetic resonance measurement system with lock-in detection. <i>Journal of Applied Physics</i> , 2012 , 111, 07A503	2.5	22
49	Voltage impulse induced bistable magnetization switching in multiferroic heterostructures. <i>Applied Physics Letters</i> , 2012 , 100, 132409	3.4	69
48	Microwave Frequency Performance and High Magnetic Anisotropy of $\text{Fe}_{70}\text{Co}_{30}\text{-B}$ Films Prepared by a Modified Composition Gradient Sputtering. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4313-4316	2	18
47	Large Field-Induced Magnetocaloric Effect in $\text{Ni}_{43}\text{Mn}_{46-x}\text{V}_x\text{Sn}_{11}$ Heusler Alloys. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3985-3988	2	2

46	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
45	VOLTAGE CONTROL OF MAGNETISM IN MULTIFERROIC HETEROSTRUCTURES AND DEVICES. <i>Spin</i> , 2012 , 02, 1240004	1.3	218
44	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
43	Electric field modulation of surface anisotropy and magneto-dynamics in multiferroic heterostructures. <i>Journal of Applied Physics</i> , 2011 , 109, 07D731	2.5	9
42	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
41	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
40	Small global positioning system patch antennas with self-biased NiCo-ferrite films. <i>Microwave and Optical Technology Letters</i> , 2011 , 53, 1162-1165	1.2	0
39	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
38	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
37	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
36	Spin-spray deposited NiZn-Ferrite films exhibiting $Q > 50$ at GHz range. <i>Journal of Applied Physics</i> , 2011 , 109, 07E527	2.5	25
35	Electric field modulation of magnetoresistance in multiferroic heterostructures for ultralow power electronics. <i>Applied Physics Letters</i> , 2011 , 98, 222509	3.4	89
34	Tunable magnetoresistance devices based on multiferroic heterostructures. <i>Journal of Applied Physics</i> , 2011 , 109, 07D913	2.5	23
33	Competition between pumping and damping in microwave-assisted magnetization reversal in magnetic films. <i>Physical Review B</i> , 2010 , 81,	3.3	18
32	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
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