

Yuan Gao

List of Publications by Year in descending order

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45
papers

1,980
citations

361413

20
h-index

289244

40
g-index

48
all docs

48
docs citations

48
times ranked

2661
citing authors

#	ARTICLE	IF	CITATIONS
1	Deterministic switching of ferromagnetism at room temperature using an electric field. Nature, 2014, 516, 370-373.	27.8	570
2	Quantification of strain and charge co-mediated magnetoelectric coupling on ultra-thin Permalloy/PMN-PT interface. Scientific Reports, 2014, 4, 3688.	3.3	184
3	Highly Sensitive Flexible Magnetic Sensor Based on Anisotropic Magnetoresistance Effect. Advanced Materials, 2016, 28, 9370-9377.	21.0	136
4	A Portable Very Low Frequency (VLF) Communication System Based on Acoustically Actuated Magnetoelectric Antennas. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 398-402.	4.0	116
5	Recent advances in multiferroic oxide heterostructures and devices. Journal of Materials Chemistry C, 2016, 4, 234-243.	5.5	87
6	Probing electric field control of magnetism using ferromagnetic resonance. Nature Communications, 2015, 6, 6082.	12.8	85
7	Interfacial spin-orbit torque without bulk spin-orbit coupling. Physical Review B, 2016, 93, .	3.2	85
8	Voltage impulse induced bistable magnetization switching in multiferroic heterostructures. Applied Physics Letters, 2012, 100, .	3.3	76
9	Compact and Low Loss Phase Shifter With Low Bias Field Using Partially Magnetized Ferrite. IEEE Transactions on Magnetics, 2013, 49, 3882-3885.	2.1	47
10	Ultra-compact mechanical antennas. Applied Physics Letters, 2020, 117, .	3.3	47
11	Significantly Enhanced Inductance and Quality Factor of GHz Integrated Magnetic Solenoid Inductors With $\text{FeGaB}/\text{Al}_2\text{O}_3$ Multilayer Films. IEEE Transactions on Electron Devices, 2014, 61, 1470-1476.	3.0	45
12	Tunable Bandpass Filter Using Partially Magnetized Ferrites With High Power Handling Capability. IEEE Microwave and Wireless Components Letters, 2013, 23, 184-186.	3.2	44
13	Voltage control of magnetism in FeGaB/PIN-PMN-PT multiferroic heterostructures for high-power and high-temperature applications. Applied Physics Letters, 2015, 106, .	3.3	43
14	Quantifying thickness-dependent charge mediated magnetoelectric coupling in magnetic/dielectric thin film heterostructures. Applied Physics Letters, 2013, 103, .	3.3	35
15	Voltage Tunable Multiferroic Phase Shifter With YIG/PMN-PT Heterostructure. IEEE Microwave and Wireless Components Letters, 2014, 24, 191-193.	3.2	30
16	Voltage Tunable Magnetoelectric Inductors With Improved Operational Frequency and Quality Factor for Power Electronics. IEEE Transactions on Magnetics, 2015, 51, 1-5.	2.1	30
17	Dual H- and E-Field Tunable Multiferroic Bandpass Filter at K -Band Using Partially Magnetized Spinel Ferrites. IEEE Transactions on Magnetics, 2013, 49, 5485-5488.	2.1	27
18	Strong non-volatile voltage control of magnetism in magnetic/antiferroelectric magnetoelectric heterostructures. Applied Physics Letters, 2014, 104, .	3.3	23

#	ARTICLE	IF	CITATIONS
19	Non-Volatile Ferroelectric Switching of Ferromagnetic Resonance in NiFe/PLZT Multiferroic Thin Film Heterostructures. Scientific Reports, 2016, 6, 32408.	3.3	23
20	The memory effect of magnetoelectric coupling in FeGaB/NiTi/PMN-PT multiferroic heterostructure. Scientific Reports, 2016, 6, 20450.	3.3	21
21	Integrated Tunable Magnetoelectric RF Inductors. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 951-963.	4.6	20
22	High quality factor integrated gigahertz magnetic transformers with FeGaB/Al ₂ O ₃ multilayer films for radio frequency integrated circuits applications. Journal of Applied Physics, 2014, 115, .	2.5	19
23	Giant electric field control of magnetism and narrow ferromagnetic resonance linewidth in FeCoSiB/Si/SiO ₂ /PMN-PT multiferroic heterostructures. Applied Physics Letters, 2016, 108, 232903.	3.3	18
24	Integrated Magnetics and Multiferroics for Compact and Power-Efficient Sensing, Memory, Power, RF, and Microwave Electronics. IEEE Transactions on Magnetics, 2016, 52, 1-8.	2.1	17
25	Low-temperature spin spray deposited ferrite/piezoelectric thin film magnetoelectric heterostructures with strong magnetoelectric coupling. Journal of Materials Science: Materials in Electronics, 2014, 25, 1188-1192.	2.2	16
26	Growth behavior and RF/microwave properties of low temperature spin-sprayed NiZn ferrite. Journal of Materials Science: Materials in Electronics, 2015, 26, 1890-1894.	2.2	16
27	A novel NiZn ferrite integrated magnetic solenoid inductor with a high quality factor at 0.7â€“6 GHz. AIP Advances, 2017, 7, .	1.3	14
28	Multi-directional electromagnetic vibration energy harvester using circular Halbach array. AIP Advances, 2017, 7, .	1.3	12
29	Integrated non-reciprocal dual H- and E-Field tunable bandpass filter with ultra-wideband isolation. , 2015, , .		10
30	Integrated Tunable Bandstop Filter Using Self-Biased FeGaB/Al ₂ O ₃ Multilayer Thin Film. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	10
31	Control of magnetic relaxation by electric-field-induced ferroelectric phase transition and inhomogeneous domain switching. Applied Physics Letters, 2016, 108, .	3.3	8
32	Nonreciprocal Isolating Bandpass Filter With Enhanced Isolation Using Metallized Ferrite. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 5307-5316.	4.6	8
33	CoFe ₂ /Al ₂ O ₃ /PMNPT multiferroic heterostructures by atomic layer deposition. Applied Physics Letters, 2016, 108, .	3.3	7
34	Voltage control of magnetism in NiZn ferrite/mica/PMNPT heterostructure with giant tunability and narrow linewidth. Applied Physics Letters, 2018, 112, 192903.	3.3	7
35	Size-dependent magnetic properties of FeGaB/Al ₂ O ₃ multilayer micro-islands. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1505-1508.	2.1	6
36	An integrated multi-source energy harvester based on vibration and magnetic field energy. AIP Advances, 2018, 8, 056623.	1.3	6

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37	An integrated tunable isolator based on NiZn film fabricated by spin-spray plating. AIP Advances, 2018, 8, .	1.3	6
38	Growth behaviors and characteristics of low temperature spin-sprayed ZnO and Al-doped ZnO microstructures. Journal of Materials Science: Materials in Electronics, 2013, 24, 2058-2066.	2.2	4
39	Power-efficient voltage tunable RF integrated magnetolectric inductors with FeGaB/Al$\times 2$/O$\times 3$ multilayer films. , 2014, , .		4
40	A high-sensitivity zero-biased magnetolectric sensor using five-phase laminate composites based on FeCoV nanocrystalline soft magnetic alloy. AIP Advances, 2017, 7, .	1.3	4
41	A location system based on two-dimensional position sensitive detector used in interactive projection systems. , 2010, , .		3
42	Electric-field tuning of non-volatile magnetization modulation in NiZn ferrite/PZT multiferroic heterostructure. Journal of Alloys and Compounds, 2017, 695, 3722-3726.	5.5	2
43	Indirect measurement of the infrared pen point used in a short throw interactive projection system. , 2010, , .		1
44	Multiferroic Composites. , 2021, , 225-240.		1
45	Electric field control of the magnetization dynamics of ferromagnetic/ferroelectric multiferroic heterostructure. , 2015, , .		0