Derang Cao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microwave excitations and hysteretic magnetization dynamics of stripe domain films. Journal of Magnetism and Magnetic Materials, 2022, 547, 168939.	1.0	4
2	Electric Field Assisted Improving the Quality and Magnetic Properties of Electrodeposited FeCo Films. Journal of Superconductivity and Novel Magnetism, 2022, 35, 345-350.	0.8	2
3	Perpendicular magnetization anisotropy induced dynamical coherence reduction in stripe domain film. Journal of Physics Condensed Matter, 2022, 34, 155802.	0.7	2
4	Annealing enhanced ferromagnetic resonance of thickness-dependent FeGa films. Applied Physics Letters, 2022, 120, 202402.	1.5	2
5	Enhancement of high-frequency performances by Al ₂ O ₃ interlayer in FeCoHf/Al ₂ O ₃ /FeCoHf trilayers. AIP Advances, 2022, 12, 055224.	0.6	1
6	Interlayer Coupling and High-Frequency Performance in Magnetic Anisotropic FeCoB/Hf/FeCoB Trilayers with Various Hf Thicknesses. Magnetochemistry, 2022, 8, 65.	1.0	0
7	Yolkâ€Shell Spindleâ€Shaped FeSe ₂ @Nâ€Doped Carbon Decorated on rGO with Highâ€Rate Capability and Cycling Stability in a Wide Temperature Range for Sodium Ion Batteries**. ChemElectroChem, 2022, 9, .	1.7	2
8	Construction of the POMOF@Polypyrrole Composite with Enhanced Ion Diffusion and Capacitive Contribution for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 6265-6275.	4.0	52
9	Orientation control of optical mode ferromagnetic resonance: From uniaxial to omni-directional. Applied Physics Letters, 2021, 118, .	1.5	3
10	Poly(vinylidene fluoride-trifluoroethylene)/cobalt ferrite composite films with a self-biased magnetoelectric effect for flexible AC magnetic sensors. Journal of Materials Science, 2021, 56, 9728-9740.	1.7	30
11	AC/DC dual-mode magnetoelectric sensor with high magnetic field resolution and broad operating bandwidth. AIP Advances, 2021, 11, .	0.6	6
12	A working-point perturbation method for the magnetoelectric sensor to measure DC to ultralow-frequency-AC weak magnetic fields simultaneously. AIP Advances, 2021, 11, .	0.6	6
13	Multiple order spin-wave resonance in composition gradient sputtering FeCoB thin films. AIP Advances, 2021, 11, 075207.	0.6	Ο
14	Influence of surface pinning in the domain on the magnetization dynamics in permalloy striped domain films. Journal of Alloys and Compounds, 2021, 869, 159327.	2.8	7
15	Reacquainting the Electrochemical Conversion Mechanism of FeS ₂ Sodium-Ion Batteries by Operando Magnetometry. Journal of the American Chemical Society, 2021, 143, 12800-12808.	6.6	69
16	Interfacial Control via Reversible Ionic Motion in Battery‣ike Magnetic Tunnel Junctions. Advanced Electronic Materials, 2021, 7, 2100512.	2.6	3
17	Coherent GHz lattice and magnetization excitations in thin epitaxial Ag/Fe/Cr/Fe films. Physical Review B, 2021, 104, .	1.1	1
18	Magnetic moment configuration: One of decisive factors to enhance the optical mode resonance in interlayer exchange coupled trilayers. Journal of Alloys and Compounds, 2021, 875, 159881.	2.8	4

#	Article	IF	CITATIONS
19	3D Ordered Porous Hybrid of ZnSe/ <i>N</i> â€doped Carbon with Anomalously High Na ⁺ Mobility and Ultrathin Solid Electrolyte Interphase for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2106194.	7.8	66
	Generation of terahertz transients from <mml:math< td=""><td></td><td></td></mml:math<>		

xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn></mml: -Heusler-alloy/normal-metal nanobilayers excited by femtosecond optical pulses. Physical Review Research, 2021, 3, . 20

21	Evaluation of Metglas/polyvinylidene fluoride magnetoelectric bilayer composites for flexible in-plane resonant magnetic sensors. Journal Physics D: Applied Physics, 2021, 54, 095003.	1.3	8	
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3D Ordered Porous Hybrid of ZnSe/<i>N</i>â€doped Carbon with Anomalously High Na⁺ Mobility and Ultrathin Solid Electrolyte Interphase for Sodiumâ€lon Batteries (Adv. Funct. Mater.) Tj ETQq0 0 0 rgB7.¢Overloc≵ 10 Tf 50 22

23	A Dual-Band Helix Antenna Operating at HBC Band. , 2020, , .		0
24	A coplanar waveguideâ€fed flexible antenna for ultraâ€wideband applications. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22258.	0.8	11
25	[(FeCoB/Ru/FeCoB)/ZnO]n superlattice multilayer: A real optical mode ferromagnetic resonance thick-film. Applied Physics Letters, 2020, 116, .	1.5	4
26	Static and Dynamic Magnetic Properties of FeGa/FeNi (FeNi/FeGa) Bilayer Structures. Coatings, 2020, 10, 383.	1.2	3
27	Spindle-like Fe3O4 nanoparticles for improving sensitivity and repeatability of giant magnetoresistance biosensors. Journal of Applied Physics, 2019, 126, .	1.1	14
28	Electric field tunable high-frequency performance in high-resistivity Fe0.5Co0.5-MgO/lead zinc niobate-lead titanate nanogranular film multiferroic heterostructures. Thin Solid Films, 2019, 686, 137425.	0.8	0
29	Nanosized MoSe ₂ @Carbon Matrix: A Stable Host Material for the Highly Reversible Storage of Potassium and Aluminum Ions. ACS Applied Materials & Interfaces, 2019, 11, 44333-44341.	4.0	56
30	Self-Supported Amorphous SnO ₂ /TiO ₂ Nanocomposite Films with Improved Electrochemical Performance for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A3072-A3078.	1.3	45
31	The effect of the particle size and magnetic moment of the Fe3O4 superparamagnetic beads on the sensitivity of biodetection. AIP Advances, 2019, 9, .	0.6	15
32	Synaptic memory devices from CoO/Nb:SrTiO ₃ junction. Royal Society Open Science, 2019, 6, 181098.	1.1	12
33	Large tunability of frequency in Fe0.5Co0.5-ZnO/PZN-PT nanogranular films with high resistivity. Journal of Magnetism and Magnetic Materials, 2019, 483, 48-53.	1.0	0
34	Ultrahigh Frequency and Anti-Interference Optical-Mode Resonance with Biquadratic Coupled FeCoB/Ru/FeCoB Trilayers. ACS Applied Materials & Interfaces, 2019, 11, 48230-48238.	4.0	10
35	Evolutions of acoustic and optical mode resonances in the spin reorientation Permalloy film. Journal of Applied Physics, 2019, 126, .	1.1	6
36	Phase formation and electrocaloric effect in nonstoichiometric 0.94Bi0.5+xNa0.5TiO3-0.06BaTiO3 ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 3465-3471.	1.1	1

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37	Influence of the phases structure on the acoustic and optical modes ferromagnetic resonance of FeNi stripe domain films. Journal of Magnetism and Magnetic Materials, 2019, 475, 103-107.	1.0	8
38	Tuning the ferromagnetic resonance frequency of soft magnetic film by patterned permalloy micro-stripes with stripe-domain. Journal of Magnetism and Magnetic Materials, 2018, 457, 46-51.	1.0	11
39	Stress-Enhanced Interlayer Exchange Coupling and Optical-Mode FMR Frequency in Self-Bias FeCoB/Ru/FeCoB Trilayers. ACS Applied Materials & Interfaces, 2018, 10, 8853-8859.	4.0	27
40	A compact slot antenna configuration for ultrawideband (UWB) terminals and mobile phones. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21400.	0.8	4
41	Improved Electrochemical Performance Based on Nanostructured SnS2@CoS2–rGO Composite Anode for Sodium-Ion Batteries. Nano-Micro Letters, 2018, 10, 46.	14.4	96
42	The influence of bias magnetization of nanoparticles on GMR sensor signal and sensitivity for the ultra-low concentration detection. Journal of Magnetism and Magnetic Materials, 2018, 453, 132-136.	1.0	12
43	A Nanocrystalline Fe2O3 Film Anode Prepared by Pulsed Laser Deposition for Lithium-Ion Batteries. Nanoscale Research Letters, 2018, 13, 60.	3.1	23
44	Tuning microwave magnetic properties of composition gradient FeCoB/Ru/FeCoB trilayer films. Journal of Magnetism and Magnetic Materials, 2018, 458, 200-203.	1.0	2
45	Thickness-dependent on the static magnetic properties and dynamic anisotropy of FeNi films with stripe domain structures. Journal Physics D: Applied Physics, 2018, 51, 025001.	1.3	17
46	3D Heterogeneous Co ₃ O ₄ @Co ₃ S ₄ Nanoarrays Grown on Ni Foam as a Binderâ€Free Electrode for Lithiumâ€Ion Batteries. ChemElectroChem, 2018, 5, 309-315.	1.7	35
47	Study on Dielectric, Ferroelectric, and Magnetic Properties of 0.5 LaFe0.5Co0.5O3-Bi4Ti3O12 Multiferroic Thin Films. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	1
48	Influence of structural evolution on electrocaloric effect in Bi0.5Na0.5TiO3-SrTiO3 ferroelectric ceramics. Journal of Applied Physics, 2018, 124, .	1.1	40
49	Spin–transfer torque oscillator in magnetic tunneling junction with short–wavelength magnon excitation. AlP Advances, 2018, 8, .	0.6	1
50	Investigation on the structures and magnetic properties of carbon or nitrogen doped cobalt ferrite nanoparticles. Scientific Reports, 2018, 8, 7916.	1.6	15
51	Dual-mode ferromagnetic resonance in an FeCoB/Ru/FeCoB synthetic antiferromagnet with uniaxial anisotropy. Applied Physics Letters, 2018, 112, .	1.5	12
52	Microstructure and Electrochemical Performance of Co ₃ O ₄ Nanopillars Calcinated at Various Temperatures. Journal of Nanoscience and Nanotechnology, 2018, 18, 1887-1892.	0.9	0
53	The Temperature-Dependent Microstructure and Magnetic Parameters of FeCo Films. Journal of the Electrochemical Society, 2017, 164, D154-D158.	1.3	1
54	Estimating the In-Plane Magnetic Anisotropy and Saturation Magnetization of Magnetic Films. IEEE Transactions on Magnetics, 2017, 53, 1-6.	1.2	5

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55	Static and Dynamic Properties of Nanowire/Permalloy Composite Films. IEEE Magnetics Letters, 2017, 8, 1-5.	0.6	1
56	Self-biased microwave ferromagnetic performance of patterned Ni80Fe20 thin films. AIP Advances, 2017, 7, 056301.	0.6	1
57	Type–I pseudo–first–order phase transition induced electrocaloric effect in lead–free Bi0.5Na0.5TiO3–0.06BaTiO3 ceramics. Applied Physics Letters, 2017, 110, .	1.5	73
58	Band-notched ultrawide band antenna loaded with ferrite slab. AIP Advances, 2017, 7, .	0.6	2
59	High-temperature tunneling electroresistance in metal/ferroelectric/semiconductor tunnel junctions. Applied Physics Letters, 2017, 111, .	1.5	12
60	Tuning high frequency magnetic properties and damping of FeGa, FeGaN and FeGaB thin films. AIP Advances, 2017, 7, .	0.6	19
61	Synthesis, characterization and magnetic properties of NiFe2â^xCexO4 nanoribbons by electrospinning. Journal of Magnetism and Magnetic Materials, 2017, 425, 37-42.	1.0	15
62	A CPW-Fed implantable antenna operating at ISM band. , 2017, , .		1
63	Electric Field Tuning Ferromagnetic Resonance Frequency Shift in Oblique Sputtered Fe42Co46Hf12/PZN-PT Multiferroic Heterostructures. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	2
64	A directional implantable antenna operating at ISM band. , 2017, , .		0
65	A facile strategy for synthesis of spinel ferrite nano-granules and their potential applications. RSC Advances, 2016, 6, 66795-66802.	1.7	10
66	Tunable Optical Mode Ferromagnetic Resonance in FeCoB/Ru/FeCoB Synthetic Antiferromagnetic Trilayers under Uniaxial Magnetic Anisotropy. Advanced Functional Materials, 2016, 26, 3738-3744.	7.8	75
67	Controllable magnetic and magnetostrictive properties of FeGa films electrodeposited on curvature substrates. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	18
68	High saturation magnetization of Î ³ -Fe2O3 nano-particles by a facile one-step synthesis approach. Scientific Reports, 2016, 6, 32360.	1.6	125
69	Applied magnetic field angle dependence of the static and dynamic magnetic properties in FeCo films during the deposition. Journal of Magnetism and Magnetic Materials, 2016, 416, 208-212.	1.0	15
70	Preparation and influence of pH on the dynamic magnetic property of magnetic FeCoC films. Materials Chemistry and Physics, 2016, 177, 236-241.	2.0	2
71	Investigation on the structure and dynamic magnetic properties of FeCo films with different thicknesses by vector network analyzer and electron spin resonance spectroscopy. Journal of Alloys and Compounds, 2016, 688, 917-922.	2.8	27
72	Engineering optical mode ferromagnetic resonance in FeCoB films with ultrathin Ru insertion. Scientific Reports, 2016, 6, 33349.	1.6	39

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73	Ultra-wide detectable concentration range of GMR biosensors using Fe3O4 microspheres. Journal of Magnetism and Magnetic Materials, 2016, 417, 25-29.	1.0	27
74	Nonmetal sulfur-doped coral-like cobalt ferrite nanoparticles with enhanced magnetic properties. Journal of Materials Chemistry C, 2016, 4, 951-957.	2.7	24
75	Tunable Static and High-Frequency Magnetic Properties of FeCo Films by an Applied Magnetic Field. Science of Advanced Materials, 2016, 8, 1061-1065.	0.1	6
76	Self-Bias Ferromagnetic Resonance and Quasi-Magnetic Isotropy of (FeCoB/MgO) ₆ Multilayers Prepared by Composition Gradient Sputtering. IEEE Transactions on Magnetics, 2015, 51, 1-3.	1.2	0
77	Synthesis, nanostructure and magnetic properties of FeCo-reduced graphene oxide composite films by one-step electrodeposition. Thin Solid Films, 2015, 597, 1-6.	0.8	12
78	X-Ray Absorption Spectra and Self-Bias Ferromagnetic Resonance of FeCoB Films Prepared by Composition Gradient Sputtering. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	2
79	A Frequency Reconfigurable Microstrip Antenna Based on \$({m Ba}, {m Sr}){m TiO}_{3} Substrate. IEEE Transactions on Antennas and Propagation, 2015, 63, 770-775.	3.1	27
80	Hierarchical SrTiO ₃ /NiFe ₂ O ₄ composite nanostructures with excellent light response and magnetic performance synthesized toward enhanced photocatalytic activity. Nanoscale, 2015, 7, 14738-14746.	2.8	42
81	A novel method to fabricate CoFe2O4/SrFe12O19 composite ferrite nanofibers with enhanced exchange coupling effect. Nanoscale Research Letters, 2015, 10, 131.	3.1	40
82	Magnetic Properties and Microstructure Investigation of FeNi Films With Step-Height by Nano-MOKE. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	2
83	Film Thickness Gradient-Induced Magnetic Anisotropy and Ferromagnetic Resonance in Fe ₅₆ Co ₂₄ B ₂₀ Amorphous Films Prepared by Pulse Laser Deposition. IEEE Transactions on Magnetics, 2015, 51, 1-3.	1.2	3
84	An induction method to calculate the complex permeability of soft magnetic films without a reference sample. Review of Scientific Instruments, 2014, 85, 054705.	0.6	59
85	Quasi magnetic isotropy and microwave performance of FeCoB multilayer laminated by uniaxial anisotropic layers. Journal of Applied Physics, 2014, 115, 17A310.	1.1	6
86	The influence of magnetic heat treatment on morphology, structure, magnetic properties of Fe-Co-P alloy films. Applied Physics A: Materials Science and Processing, 2014, 115, 359-363.	1.1	8
87	Electrodeposition of FeCoCd films with in-plane uniaxial magnetic anisotropy for microwave applications. Journal of Applied Physics, 2014, 115, 17A307.	1.1	13
88	Large E-field tunability of microwave ferromagnetic properties in Fe59.3Co28.0Hf12.7/PZN-PT multiferroic composites. Journal of Applied Physics, 2014, 115, 17C723.	1.1	25
89	Driving ferromagnetic resonance frequency of FeCoB/PZN-PT multiferroic heterostructures to Ku-band via two-step climbing: composition gradient sputtering and magnetoelectric coupling. Scientific Reports, 2014, 4, 7393.	1.6	55
90	Magnetic properties and microstructure investigation of electrodeposited FeNi/ITO films with different thickness. Journal of Alloys and Compounds, 2013, 581, 66-70.	2.8	26

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91	Large E-field tunability of microwave ferromagnetic properties in Fe50Co50-Hf/lead zinc niobate–lead titanate multiferroic laminates. Journal of Applied Physics, 2013, 113, .	1.1	18
92	Inequivalence of direct and converse magnetoelectric coupling at electromechanical resonance. Applied Physics Letters, 2013, 103, 182905.	1.5	37
93	Microwave Frequency Performance and High Magnetic Anisotropy of Nanocrystalline Fe ₇₀ Co ₃₀ -B Films Prepared by Composition Gradient Sputtering. Journal of Nanoscience and Nanotechnology, 2013, 13, 1091-1094.	0.9	6
94	Tunable Microwave Frequency Performance of Nanocomposite Co ₂ MnSi/PZN-PT Magnetoelectric Coupling Structure. Journal of Nanoscience and Nanotechnology, 2013, 13, 1182-1185.	0.9	3
95	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
96	E-field tuning microwave frequency performance of Co2FeSi/lead zinc niobate–lead titanate magnetoelectric coupling composites. Journal of Applied Physics, 2012, 111, 07C705.	1.1	15
97	Tuning of magnetization dynamics in sputtered CoFeB thin film by gas pressure. Journal of Applied Physics, 2012, 111, .	1.1	23
98	Microwave Frequency Performance and High Magnetic Anisotropy of \${m Fe}_{70}{m Co}_{30}-{m B}\$ Films Prepared by a Modified Composition Gradient Sputtering. IEEE Transactions on Magnetics, 2012, 48, 4313-4316.	1.2	20
99	Large Field-Induced Magnetocaloric Effect in Ni\$_{43}\$Mn\$_{46 - {m x}}\$V\$_{m x}\$Sn\$_{11}\$ Heusler Alloys. IEEE Transactions on Magnetics, 2012, 48, 3985-3988.	1.2	2
100	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
101	Influence of Sputtering Gas Pressure on High-Frequency Soft Magnetic Properties of FeCoN Thin Film. IEEE Transactions on Magnetics, 2011, 47, 3921-3923.	1.2	9
102	Influence of Interlayer Thickness on High-Frequency Magnetic Properties of FeCoSiN/AlO/FeCoSiN Trilayers. IEEE Transactions on Magnetics, 2011, 47, 3100-3103.	1.2	7
103	High In-Plane Magnetic Anisotropy and Microwave Frequency Performance of Soft Magnetic (Fe\$_{50}\$Co\$_{50}\$)\$_{1-{m x}}\$(Al\$_{2}\$O\$_{3}\$)\$_{m x}\$ Films Prepared by Modified Composition Gradient Sputtering. IEEE Transactions on Magnetics, 2011, 47, 3935-3938.	1.2	22
104	RF Magnetic Properties of FeCoB/Al\$_{2}\$O\$_{3}\$/FeCoB Structure With Varied Al\$_{2}\$O\$_{3}\$ Thickness. IEEE Transactions on Magnetics, 2011, 47, 3104-3107.	1.2	35
105	Influence of Thickness on Magnetic Properties and Microwave Characteristics of NiFe/IrMn/NiFe Trilayers. IEEE Transactions on Magnetics, 2011, 47, 3486-3489.	1.2	10
106	Tunable magnetoresistance devices based on multiferroic heterostructures. Journal of Applied Physics, 2011, 109, 07D913.	1.1	24
107	Synthesis and magnetic properties of crystalline mesoporous CoFe ₂ O ₄ with large specific surface area. Journal of Materials Chemistry, 2010, 20, 945-952.	6.7	64
108	Magnetic Carbon Nanofoams. Journal of Nanoscience and Nanotechnology, 2009, 9, 1133-1136.	0.9	9

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109	Ultrahigh-frequency ferromagnetic properties of FeCoHf films deposited by gradient sputtering. Applied Physics Letters, 2008, 92, .	1.5	152
110	Enhancement of high-frequency permeability of FeCoHf films by surface oxidation. , 2008, , .		0
111	Highâ€frequency ferromagnetic properties of FeCoZr nanocrystalline films. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 4593-4597.	0.8	1
112	Fabrication and high frequency magnetic characterization of FeCoAl ternary thin films. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 4129-4132.	0.8	3
113	Anomalous magnetic properties in Co3O4 nanoparticles covered with polymer decomposition residues. Journal of Applied Physics, 2004, 95, 7420-7422.	1.1	36