Feng Pan

List of Publications by Year
in descending order

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396 papers	15,476 citations	15504 65 h-index	25787 108 g-index
402 all docs	402 docs citations	402 times ranked	13298 citing authors

#	Article	IF	Citations
1	Recent progress in resistive random access memories: Materials, switching mechanisms, and performance. Materials Science and Engineering Reports, 2014, 83, 1-59.	31.8	1,160
2	Fully Room-Temperature-Fabricated Nonvolatile Resistive Memory for Ultrafast and High-Density Memory Application. Nano Letters, 2009, 9, 1636-1643.	9.1	805
3	Ferromagnetism and possible application in spintronics of transition-metal-doped ZnO films. Materials Science and Engineering Reports, 2008, 62, 1-35.	31.8	616
4	Recent progress in voltage control of magnetism: Materials, mechanisms, and performance. Progress in Materials Science, 2017, 87, 33-82.	32.8	357
5	Resistive Switching and Magnetic Modulation in Cobaltâ€Doped ZnO. Advanced Materials, 2012, 24, 3515-3520.	21.0	252
6	Antidamping-Torque-Induced Switching in Biaxial Antiferromagnetic Insulators. Physical Review Letters, 2018, 120, 207204.	7.8	246
7	Synaptic plasticity and learning behaviours mimicked through Ag interface movement in an Ag/conducting polymer/Ta memristive system. Journal of Materials Chemistry C, 2013, 1, 5292.	5.5	237
8	Giant magnetic moment in an anomalous ferromagnetic insulator: Co-dopedZnO. Physical Review B, 2006, 73, .	3.2	225
9	Nonvolatile resistive switching memories-characteristics, mechanisms and challenges. Progress in Natural Science: Materials International, 2010, 20, 1-15.	4.4	194
10	Dynamic Processes of Resistive Switching in Metallic Filament-Based Organic Memory Devices. Journal of Physical Chemistry C, 2012, 116, 17955-17959.	3.1	190
11	Highâ€“energy density nonaqueous all redox flow lithium battery enabled with a polymeric membrane. Science Advances, 2015, 1, e1500886.	10.3	186
12	Giant piezoelectric d33 coefficient in ferroelectric vanadium doped ZnO films. Applied Physics Letters, 2008, 92, .	3.3	168
13	Redox Species of Redox Flow Batteries: A Review. Molecules, 2015, 20, 20499-20517.	3.8	167
14	Room-Temperature Perpendicular Exchange Coupling and Tunneling Anisotropic Magnetoresistance in an Antiferromagnet-Based Tunnel Junction. Physical Review Letters, 2012, 109, 137201.	7.8	165
15	Photoluminescence and Raman scattering of Cu-doped ZnO films prepared by magnetron sputtering. Applied Surface Science, 2007, 253, 6905-6909.	6.1	160
16	Adaptive Crystallite Kinetics in Homogenous Bilayer Oxide Memristor for Emulating Diverse Synaptic Plasticity. Advanced Functional Materials, 2018, 28, 1706927.	14.9	140
17	Electric field control of NÃ©el spinâ€“orbit torque in an antiferromagnet. Nature Materials, 2019, 18, 931-935.	27.5	132
18	Bipolar resistive switching in Cu/AlN/Pt nonvolatile memory device. Applied Physics Letters, 2010, 97, .	3.3	131

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19	Spin-orbit torques: Materials, mechanisms, performances, and potential applications. Progress in Materials Science, 2021, 118, 100761.	32.8	127
20	Correlation of oxygen vacancy variations to band gap changes in epitaxial ZnO thin films. Applied Physics Letters, 2013, 102, .	3.3	125
21	Nonvolatile resistive switching in single crystalline ZnO nanowires. Nanoscale, 2011, 3, 1917.	5.6	120
22	Competition between Metallic and Vacancy Defect Conductive Filaments in a CH₃NH₃PbI₃-Based Memory Device. Journal of Physical Chemistry C, 2018, 122, 6431-6436.	3.1	115
23	Observation of the antiferromagnetic spin Hall effect. Nature Materials, 2021, 20, 800-804.	27.5	113
24	Bipolar resistive switching with self-rectifying effects in Al/ZnO/Si structure. Journal of Applied Physics, 2012, 111, .	2.5	112
25	Luminescence and Raman scattering properties of Ag-doped ZnO films. Journal Physics D: Applied Physics, 2006, 39, 4992-4996.	2.8	106
26	Guiding the Growth of a Conductive Filament by Nanoindentation To Improve Resistive Switching. ACS Applied Materials & Interfaces, 2017, 9, 34064-34070.	8.0	106
27	Electrical Manipulation of Orbital Occupancy and Magnetic Anisotropy in Manganites. Advanced Functional Materials, 2015, 25, 864-870.	14.9	105
28	Oxygen migration induced resistive switching effect and its thermal stability in W/TaOx/Pt structure. Applied Physics Letters, 2012, 100, .	3.3	103
29	Lateral 2D WSe₂ pâ€“n Homojunction Formed by Efficient Chargeâ€Carrierâ€Type Modulation for Highâ€Performance Optoelectronics. Advanced Materials, 2020, 32, e1906499.	21.0	103
30	Resistance Switching Characteristics of Solid Electrolyte Chalcogenide Ag₂Se Nanoparticles for Flexible Nonvolatile Memory Applications. Advanced Materials, 2012, 24, 3573-3576.	21.0	101
31	The influence of different doping elements on microstructure, piezoelectric coefficient and resistivity of sputtered ZnO film. Applied Surface Science, 2006, 253, 1639-1643.	6.1	100
32	A new type of glucose biosensor based on surface acoustic wave resonator using Mn-doped ZnO multilayer structure. Biosensors and Bioelectronics, 2013, 49, 512-518.	10.1	99
33	Resistive Switching Induced by Metallic Filaments Formation through Poly(3,4-ethylene-dioxythiophene):Poly(styrenesulfonate). ACS Applied Materials & Interfaces, 2012, 4, 447-453.	8.0	98
34	Electrical Control of the Exchange Spring in Antiferromagnetic Metals. Advanced Materials, 2015, 27, 3196-3201.	21.0	98
35	Evaluating modulus and hardness enhancement in evaporated Cu/W multilayers. Acta Materialia, 2007, 55, 345-351.	7.9	97
36	Forming-free and self-rectifying resistive switching of the simple Pt/TaO_x/n-Si structure for access device-free high-density memory application. Nanoscale, 2015, 7, 6031-6038.	5.6	97

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37	Enhanced electromechanical response of Fe-doped ZnO films by modulating the chemical state and ionic size of the Fe dopant. Physical Review B, 2010, 82, .	3.2	94
38	Formation process of conducting filament in planar organic resistive memory. Applied Physics Letters, 2013, 102, .	3.3	89
39	Conductance quantization in a Ag filament-based polymer resistive memory. Nanotechnology, 2013, 24, 335201.	2.6	86
40	Influence of sputtering parameters on structures and residual stress of AlN films deposited by DC reactive magnetron sputtering at room temperature. Journal of Crystal Growth, 2013, 363, 80-85.	1.5	86
41	Cr-substitution-induced ferroelectric and improved piezoelectric properties of Zn1â˜'xCrxO films. Journal of Applied Physics, 2008, 103, .	2.5	85
42	Resistive switching and conductance quantization in Ag/SiO2/indium tin oxide resistive memories. Applied Physics Letters, 2014, 105, .	3.3	85
43	Implementation of Complete Boolean Logic Functions in Single Complementary Resistive Switch. Scientific Reports, 2015, 5, 15467.	3.3	84
44	Resistive switching mechanisms relating to oxygen vacancies migration in both interfaces in Ti/HfOx/Pt memory devices. Journal of Applied Physics, 2013, 113, .	2.5	83
45	Magnetoresistance transformation observed in Fe/Mo multilayers prepared by electron beam evaporation. Journal Physics D: Applied Physics, 2004, 37, 1-4.	2.8	82
46	Redox Targeting of Anatase TiO₂ for Redox Flow Lithiumâ€ion Batteries. Advanced Energy Materials, 2014, 4, 1400567.	19.5	82
47	Spin-orbit torque in MgO/CoFeB/Ta/CoFeB/MgO symmetric structure with interlayer antiferromagnetic coupling. Physical Review B, 2017, 95, .	3.2	82
48	Magnetoelectric Coupling Induced by Interfacial Orbital Reconstruction. Advanced Materials, 2015, 27, 6651-6656.	21.0	81
49	Effect of sputtering oxygen partial pressures on structure and physical properties of high resistivity ZnO films. Applied Surface Science, 2004, 223, 318-329.	6.1	79
50	V5+ ionic displacement induced ferroelectric behavior in V-doped ZnO films. Applied Physics Letters, 2007, 90, 242903.	3.3	79
51	Strain engineering induced interfacial self-assembly and intrinsic exchange bias in a manganite perovskite film. Scientific Reports, 2013, 3, 2542.	3.3	79
52	How to manipulate magnetic states of antiferromagnets. Nanotechnology, 2018, 29, 112001.	2.6	79
53	Deposition of high-quality zinc oxide thin films on diamond substrates for high-frequency surface acoustic wave filter applications. Thin Solid Films, 2005, 485, 257-261.	1.8	77
54	Switching mechanism transition induced by annealing treatment in nonvolatile Cu/ZnO/Cu/ZnO/Pt resistive memory: From carrier trapping/detrapping to electrochemical metallization. Journal of Applied Physics, 2009, 106, .	2.5	76

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55	Reversible Ferromagnetic Phase Transition in Electrodeâ€Gated Manganites. Advanced Functional Materials, 2014, 24, 7233-7240.	14.9	76
56	Strong Orientation-Dependent Spin-Orbit Torque in Thin Films of the Antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Mn</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mr Physical Review Applied, 2018, 9, .	3.8	75
57	Bipolar resistance switching in high-performance Cu/ZnO:Mn/Pt nonvolatile memories: active region and influence of Joule heating. New Journal of Physics, 2010, 12, 023008.	2.9	74
58	Spin-orbit torque in a completely compensated synthetic antiferromagnet. Physical Review B, 2018, 97, .	3.2	73
59	Wideband and Low-Loss Surface Acoustic Wave Filter Based on 15Â° YX-LiNbOâ‚ƒ/SiOâ‚‚/Si Structure. IEEE Electron Device Letters, 2021, 42, 438-441.	3.9	73
60	A class of liquid anode for rechargeable batteries with ultralong cycle life. Nature Communications, 2017, 8, 14629.	12.8	71
61	Migration of interfacial oxygen ions modulated resistive switching in oxide-based memory devices. Journal of Applied Physics, 2013, 114, 014502.	2.5	69
62	Improving Unipolar Resistive Switching Uniformity with Cone-Shaped Conducting Filaments and Its Logic-In-Memory Application. ACS Applied Materials & Interfaces, 2018, 10, 6453-6462.	8.0	68
63	Observation of Spin Splitting Torque in a Collinear Antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>RuO</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mr Physical Review Letters, 2022, 128, .	7.8	68
64	Local Fe structure and ferromagnetism in Fe-doped ZnO films. Journal of Physics Condensed Matter, 2006, 18, 7471-7479.	1.8	67
65	Evidence of structural defect enhanced room-temperature ferromagnetism in Co-doped ZnO. Journal of Physics Condensed Matter, 2007, 19, 176229.	1.8	67
66	High-Performance Surface Acoustic Wave Devices Using LiNbO₃/SiO₂/SiC Multilayered Substrates. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3693-3705.	4.6	67
67	Programmable complementary resistive switching behaviours of a plasma-oxidised titanium oxide nanolayer. Nanoscale, 2013, 5, 422-428.	5.6	66
68	Microstructure and nanoindentation hardness of Ti/TiN multilayered films. Surface and Coatings Technology, 2001, 137, 225-229.	4.8	64
69	Conductance quantization in oxygen-anion-migration-based resistive switching memory devices. Applied Physics Letters, 2013, 103, .	3.3	64
70	Antiferromagnet-controlled spin current transport in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrMnO</mml:mi><mml:mn>3</mml:mn></mml:mrow><mml:mn></r Physical Review B, 2014, 90, .	3.2	64
71	Room temperature multiferroic behavior of Cr-doped ZnO films. Journal of Applied Physics, 2008, 104, 064102.	2.5	60
72	Current-induced magnetization switching in a CoTb amorphous single layer. Physical Review B, 2020, 101, .	3.2	59

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73	Microstructure and properties of Cu-doped ZnO films prepared by dc reactive magnetron sputtering. Journal Physics D: Applied Physics, 2005, 38, 4104-4108.	2.8	57
74	Effect of Electrode Materials on AlN-Based Bipolar and Complementary Resistive Switching. ACS Applied Materials & Interfaces, 2013, 5, 1793-1799.	8.0	56
75	Anomalous Hall Effectâ€“Like Behavior with Inâ€Plane Magnetic Field in Noncollinear Antiferromagnetic Mn₃Sn Films. Advanced Electronic Materials, 2019, 5, 1800818.	5.1	56
76	Performanceâ€Enhancing Selector via Symmetrical Multilayer Design. Advanced Functional Materials, 2019, 29, 1808376.	14.9	56
77	Influence of annealing on microstructure and magnetic properties of co-sputtered Co-doped ZnO thin films. Journal Physics D: Applied Physics, 2007, 40, 1608-1613.	2.8	55
78	The magnetic properties of Co-doped ZnO diluted magnetic insulator films prepared by direct current reactive magnetron co-sputtering. Journal of Magnetism and Magnetic Materials, 2007, 309, 25-30.	2.3	54
79	Nanoindentation and nanoscratch behaviors of Ag/Ni multilayers. Applied Surface Science, 2009, 255, 4558-4562.	6.1	54
80	Reproducible and controllable organic resistive memory based on Al/poly(3,4-ethylene-dioxythiophene):poly(styrenesulfonate)/Al structure. Applied Physics Letters, 2010, 97, 253301.	3.3	54
81	A Detailed Study of the Forming Stage of an Electrochemical Resistive Switching Memory by KMC Simulation. IEEE Electron Device Letters, 2011, 32, 949-951.	3.9	54
82	Learning processes modulated by the interface effects in a Ti/conducting polymer/Ti resistive switching cell. RSC Advances, 2014, 4, 14822.	3.6	53
83	Elastic modulus and hardness of Cuâ€“Ta amorphous films. Journal of Alloys and Compounds, 2005, 389, 75-79.	5.5	52
84	Interfacial oxygen-octahedral-tilting-driven electrically tunable topological Hall effect in ultrathin SrRuO₃ films. Journal Physics D: Applied Physics, 2019, 52, 404001.	2.8	51
85	Electric and Light Dual-Gate Tunable MoS₂ Memtransistor. ACS Applied Materials & Interfaces, 2019, 11, 43344-43350.	8.0	51
86	Intrinsic and extrinsic origins of room temperature ferromagnetism in Ni-doped ZnO films. Journal Physics D: Applied Physics, 2009, 42, 035004.	2.8	50
87	Manipulation of Electric Field Effect by Orbital Switch. Advanced Functional Materials, 2016, 26, 753-759.	14.9	49
88	Tunneling anisotropic magnetoresistance driven by magnetic phase transition. Nature Communications, 2017, 8, 449.	12.8	49
89	The electrical, optical and magnetic properties of Si-doped ZnO films. Applied Surface Science, 2012, 258, 2177-2181.	6.1	47
90	Tuning the entanglement between orbital reconstruction and charge transfer at a film surface. Scientific Reports, 2014, 4, 4206.	3.3	47

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91	Tuning the switching behavior of binary oxide-based resistive memory devices by inserting an ultra-thin chemically active metal nanolayer: a case study on the Ta2O5â€“Ta system. Physical Chemistry Chemical Physics, 2015, 17, 12849-12856.	2.8	47
92	Designed Construction of a Graphene and Iron Oxide Freestanding Electrode with Enhanced Flexible Energy-Storage Performance. ACS Applied Materials & Interfaces, 2016, 8, 6972-6981.	8.0	47
93	Reducing Dzyaloshinskii-Moriya interaction and field-free spin-orbit torque switching in synthetic antiferromagnets. Nature Communications, 2021, 12, 3113.	12.8	47
94	Microstructure and mechanical properties of nanoscale Cu/Ni multilayers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1243-1248.	5.6	46
95	Electric Field Control of Phase Transition and Tunable Resistive Switching in SrFeO_{2.5}. ACS Applied Materials & Interfaces, 2019, 11, 6581-6588.	8.0	45
96	High-Frequency Surface Acoustic Wave Devices Based on ZnO/SiC Layered Structure. IEEE Electron Device Letters, 2019, 40, 103-106.	3.9	45
97	Spinâ€Dependent Charge Transport in 1D Chiral Hybrid Leadâ€Bromide Perovskite with High Stability. Advanced Functional Materials, 2021, 31, 2104605.	14.9	44
98	Local Co structure and ferromagnetism in ion-implanted Co-dopedLiNbO3. Physical Review B, 2006, 73, .	3.2	43
99	Strain-induced ferromagnetism enhancement in Co:ZnO films. Journal of Applied Physics, 2008, 103, .	2.5	43
100	Filtering performance improvement in V-doped ZnO/diamond surface acoustic wave filters. Applied Surface Science, 2010, 256, 3081-3085.	6.1	43
101	Design of a Controllable Redoxâ€Diffusive Threshold Switching Memristor. Advanced Electronic Materials, 2020, 6, 2000695.	5.1	43
102	Highly Efficient Spinâ€Filtering Transport in Chiral Hybrid Copper Halides. Angewandte Chemie - International Edition, 2021, 60, 23578-23583.	13.8	43
103	Realization of Isolated and High-Density Skyrmions at Room Temperature in Uncompensated Synthetic Antiferromagnets. Nano Letters, 2020, 20, 3299-3305.	9.1	42
104	Multilevel resistance switching in Cu/TaOx/Pt structures induced by a coupled mechanism. Journal of Applied Physics, 2010, 107, 093701.	2.5	41
105	Enhancement of piezoelectric response of diluted Ta doped AlN. Applied Surface Science, 2013, 270, 225-230.	6.1	41
106	Role of Oxygen Ion Migration in the Electrical Control of Magnetism in Pt/Co/Ni/HfO₂ Films. Journal of Physical Chemistry C, 2016, 120, 1633-1639.	3.1	41
107	Enhancement of yield strength by chromium/nitrogen alloying in high-manganese cryogenic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 698, 110-116.	5.6	41
108	Influence of Cr-doping on microstructure and piezoelectric response of AlN films. Journal Physics D: Applied Physics, 2009, 42, 235406.	2.8	39

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109	Exchange bias in a single<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaMnO</mml:mi><mml:mn>3</mml:mn></mml:msub></ induced by vertical electronic phase separation. Physical Review B, 2014, 89, .	3.2	39
110	Strong Electrical Manipulation of Spinâ€“Orbit Torque in Ferromagnetic Heterostructures. Advanced Electronic Materials, 2016, 2, 1600219.	5.1	37
111	Quality-enhanced AlN epitaxial films grown on c-sapphire using ZnO buffer layer for SAW applications. Applied Surface Science, 2017, 402, 392-399.	6.1	37
112	Modulating metallic conductive filaments via bilayer oxides in resistive switching memory. Applied Physics Letters, 2019, 114, 193502.	3.3	37
113	Enhancement of electrical and ferromagnetic properties by additional Al doping in Co:ZnO thin films. Journal of Physics Condensed Matter, 2007, 19, 296208.	1.8	36
114	Microstructure and ultrahigh strength of nanoscale Cu/Nb multilayers. Thin Solid Films, 2011, 520, 818-823.	1.8	36
115	Cu-Embedded AlN-Based Nonpolar Nonvolatile Resistive Switching Memory. IEEE Electron Device Letters, 2012, 33, 1711-1713.	3.9	36
116	Perpendicular magnetic anisotropy in CoFeB/X (X=MgO, Ta, W, Ti, and Pt) multilayers. Journal of Alloys and Compounds, 2013, 559, 112-115.	5.5	36
117	From Fieldlike Torque to Antidamping Torque in Antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Mn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Au</mml:mi></mml:math>. Physical Review Applied, 2019, 11, .	3.8	36
118	Antiâ€Ferromagnet Controlled Tunneling Magnetoresistance. Advanced Functional Materials, 2014, 24, 6806-6810.	14.9	35
119	Electrical control of Co/Ni magnetism adjacent to gate oxides with low oxygen ion mobility. Applied Physics Letters, 2015, 107, .	3.3	35
120	Charge Transfer and Orbital Reconstruction in Strain-Engineered (La,Sr)MnO₃/LaNiO₃ Heterostructures. ACS Applied Materials & Interfaces, 2015, 7, 17700-17706.	8.0	35
121	Cluster magnetic octupole induced out-of-plane spin polarization in antiperovskite antiferromagnet. Nature Communications, 2021, 12, 6524.	12.8	34
122	C54â€TiSi2formed by direct high current Tiâ€ion implantation. Applied Physics Letters, 1993, 62, 2356-2358.	3.3	33
123	Fully epitaxial (Zn,Co)Oâ•ZnOâ•(Zn,Co)O junction and its tunnel magnetoresistance. Applied Physics Letters, 2007, 91, .	3.3	33
124	Substrate-dependent magnetization in Co-doped ZnO insulating films. Physical Review B, 2007, 76, .	3.2	32
125	Electric-Field Control of Oxygen Vacancies and Magnetic Phase Transition in a Cobaltite/Manganite Bilayer. Physical Review Applied, 2017, 8, .	3.8	32
126	Microstructure and photoluminescence study of vanadium-doped ZnO films. Journal Physics D: Applied Physics, 2009, 42, 115109.	2.8	31

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127	Interplay between chemical state, electric properties, and ferromagnetism in Fe-doped ZnO films. Journal of Applied Physics, 2013, 113, .	2.5	31
128	Spintronic materials and devices based on antiferromagnetic metals. Progress in Natural Science: Materials International, 2017, 27, 208-216.	4.4	31
129	Synthesis of Î²â€•and Î±â€FeSi2phases by Fe ion implantation into Si using metal vapor vacuum arc ion source. Journal of Applied Physics, 1994, 75, 3847-3854.	2.5	30
130	Donor defects enhanced ferromagnetism in Co:ZnO films. Thin Solid Films, 2008, 516, 8757-8761.	1.8	30
131	Nanoindentation studies of Cuâ€“W alloy films prepared by magnetron sputtering. Journal of Alloys and Compounds, 2008, 464, 544-549.	5.5	30
132	Resistive switching with self-rectifying behavior in Cu/SiOx/Si structure fabricated by plasma-oxidation. Journal of Applied Physics, 2013, 113, .	2.5	30
133	Realization of the Meminductor. ACS Nano, 2014, 8, 10043-10047.	14.6	30
134	Oxygen-Valve Formed in Cobaltite-Based Heterostructures by Ionic Liquid and Ferroelectric Dual-Gating. ACS Applied Materials & Interfaces, 2019, 11, 19584-19595.	8.0	30
135	Grain Size-Dependent Mechanical Properties of a High-Manganese Austenitic Steel. Acta Metallurgica Sinica (English Letters), 2019, 32, 746-754.	2.9	30
136	Transition from diluted magnetic insulator to semiconductor in Co-doped ZnO transparent oxide. Journal of Applied Physics, 2007, 101, 103903.	2.5	29
137	Nanoindentation investigation of the mechanical behaviors of nanoscale Ag/Cu multilayers. Journal of Materials Research, 2007, 22, 3423-3431.	2.6	29
138	Investigation of the wear behaviors of Ag/Cu multilayers by nanoscratch. Wear, 2008, 265, 1808-1813.	3.1	29
139	Indentation creep behavior of nano-scale Ag/Co multilayers. Scripta Materialia, 2006, 55, 187-190.	5.2	28
140	Room temperature nanoindentation creep of nanoscale Ag/Fe multilayers. Materials Letters, 2010, 64, 53-56.	2.6	28
141	Giant piezoresponse and promising application of environmental friendly small-ion-doped ZnO. Science China Technological Sciences, 2012, 55, 421-436.	4.0	27
142	Electrochemical control of the phase transition of ultrathin FeRh films. Applied Physics Letters, 2016, 108, .	3.3	27
143	Evolution of microstructures and mechanical properties during solution treatment of a Tiâ€“Vâ€“Mo-containing highâ€manganese cryogenic steel. Materials Characterization, 2018, 135, 287-294.	4.4	26
144	Investigation of nanoindentation on Co/Mo multilayers by the continuous stiffness measurement technique. Surface and Coatings Technology, 2005, 191, 127-133.	4.8	25

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145	Room temperature ferromagnetism and ferroelectricity in cobalt-doped LiNbO3 film. Applied Physics Letters, 2008, 92, .	3.3	25
146	The role of rotatable anisotropy in the asymmetric magnetization reversal of exchange biased NiO/Ni bilayers. Journal of Applied Physics, 2009, 106, 013902.	2.5	25
147	Tuning of uniaxial magnetic anisotropy in amorphous CoFeB films. Journal of Physics Condensed Matter, 2013, 25, 106003.	1.8	25
148	Frequency-dependent learning achieved using semiconducting polymer/electrolyte composite cells. Nanoscale, 2015, 7, 16880-16889.	5.6	25
149	Influence of film composition on the transition temperature of FeRh films. Journal of Crystal Growth, 2016, 438, 19-24.	1.5	25
150	Orientation-dependent THz emission in non-collinear antiferromagnetic Mn3Sn and Mn3Sn-based heterostructures. Applied Physics Letters, 2019, 115, .	3.3	25
151	Phase-change nanoclusters embedded in a memristor for simulating synaptic learning. Nanoscale, 2019, 11, 5684-5692.	5.6	25
152	Magnetic properties of vapor-deposited ironâ€“noble-metal multilayers. Physical Review B, 1993, 48, 10276-10283.	3.2	24
153	Interface-modification-enhanced tunnel electroresistance in multiferroic tunnel junctions. Journal of Applied Physics, 2014, 116, .	2.5	24
154	Enhancement of room temperature ferromagnetism in Cu-doped AlN thin film by defect engineering. Journal of Alloys and Compounds, 2014, 586, 469-474.	5.5	24
155	Unconventional resistive switching behavior in ferroelectric tunnel junctions. Physical Chemistry Chemical Physics, 2015, 17, 10146-10150.	2.8	24
156	Electrical control of magnetism in oxides. Chinese Physics B, 2016, 25, 067502.	1.4	24
157	Contributions of magnetic properties in epitaxial copper-doped ZnO. Physical Chemistry Chemical Physics, 2013, 15, 13153.	2.8	23
158	Evidence for asymmetric rotation of spins in antiferromagnetic exchange-spring. New Journal of Physics, 2014, 16, 123032.	2.9	23
159	Realisation of all 16 Boolean logic functions in a single magnetoresistance memory cell. Nanoscale, 2016, 8, 12819-12825.	5.6	23
160	Thermal stability of microstructure and mechanical properties of Ni/Ru multilayers. Surface and Coatings Technology, 2008, 202, 2040-2046.	4.8	22
161	Lateral transport properties of thermally excited magnons in yttrium iron garnet films. Applied Physics Letters, 2017, 110, .	3.3	22
162	Size-dependent anomalous Hall effect in noncollinear antiferromagnetic Mn3Sn films. Applied Physics Letters, 2020, 117, .	3.3	22

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163	Emerging opportunities for voltage-driven magneto-ionic control in ferroic heterostructures. APL Materials, 2021, 9, .	5.1	22
164	Observation of negative capacitance in antiferroelectric PbZrO3 Films. Nature Communications, 2021, 12, 4215.	12.8	22
165	Over GHz bandwidth SAW filter based on 32Â° Y-X LN/SiO2/poly-Si/Si heterostructure with multilayer electrode modulation. Applied Physics Letters, 2022, 120, .	3.3	22
166	Grain boundary defects-mediated room temperature ferromagnetism in Co-doped ZnO film. Journal of Alloys and Compounds, 2009, 482, 224-228.	5.5	21
167	Modulating resistive switching by diluted additive of poly(vinylpyrrolidone) in poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate). Journal of Applied Physics, 2011, 110, .	2.5	21
168	Cost-effective and high frequency surface acoustic wave filters on ZnO:Fe/Si for low-loss and wideband application. Applied Physics Letters, 2012, 101, .	3.3	21
169	Interlayer magnetostatic coupling and linear magnetoresistance in [Pd/Co]/MgO/Co junction sensor. Applied Physics Letters, 2012, 101, 062404.	3.3	21
170	Frequency Selectivity in Pulse Responses of Pt/Poly(3-Hexylthiophene-2,5-Diyl)/Polyethylene Oxide + Li+/Pt Hetero-Junction. PLoS ONE, 2014, 9, e108316.	2.5	21
171	High-frequency V-doped ZnO/SiC surface acoustic wave devices with enhanced electromechanical coupling coefficient. Applied Physics Letters, 2019, 114, .	3.3	21
172	Size dependence of creep behavior in nanoscale Cu/Co multilayer thin films. Journal of Alloys and Compounds, 2010, 506, 434-440.	5.5	20
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