

Feng Pan

List of Publications by Year in descending order

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114
papers

5,660
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81900

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times ranked

6103
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface-Enhanced Ferromagnetism with Long-Distance Effect in van der Waals Semiconductor. <i>Advanced Functional Materials</i> , 2022, 32, 2108953.	14.9	13
2	SAW Filters With Excellent Temperature Stability and High Power Handling Using LiTaO ₃ /SiC Bonded Wafers. <i>Journal of Microelectromechanical Systems</i> , 2022, 31, 186-193.	2.5	10
3	An overview of SrRuO ₃ -based heterostructures for spintronic and topological phenomena. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 233001.	2.8	15
4	Investigation of Temperature-Dependent Magnetic Properties and Coefficient of Thermal Expansion in Invar Alloys. <i>Materials</i> , 2022, 15, 1504.	2.9	2
5	Efficient orbital torque in polycrystalline O_3 ferromagnetic stacks: Theory and experiment. <i>Physical Review B</i> , 2022, 105, .	3.2	14
6	Spin-orbit torques: Materials, mechanisms, performances, and potential applications. <i>Progress in Materials Science</i> , 2021, 118, 100761.	32.8	127
7	Observation of the antiferromagnetic spin Hall effect. <i>Nature Materials</i> , 2021, 20, 800-804.	27.5	113
8	Emerging opportunities for voltage-driven magneto-ionic control in ferroic heterostructures. <i>APL Materials</i> , 2021, 9, .	5.1	22
9	Reducing Dzyaloshinskii-Moriya interaction and field-free spin-orbit torque switching in synthetic antiferromagnets. <i>Nature Communications</i> , 2021, 12, 3113.	12.8	47
10	Insight into interlayer magnetic coupling in $1T$ -type transition metal dichalcogenides based on the stacking of nonmagnetic atoms. <i>Physical Review B</i> , 2021, 103, .	3.2	7
11	Observation of negative capacitance in antiferroelectric PbZrO ₃ Films. <i>Nature Communications</i> , 2021, 12, 4215.	12.8	22
12	Enhanced Coupling Coefficient in Dual-Mode ZnO/SiC Surface Acoustic Wave Devices with Partially Etched Piezoelectric Layer. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6383.	2.5	10
13	Spin-Dependent Charge Transport in 1D Chiral Hybrid Lead-Bromide Perovskite with High Stability. <i>Advanced Functional Materials</i> , 2021, 31, 2104605.	14.9	44
14	A Multilayered Structure for Packageless Acoustic-Wave Devices With Ultra-Small Sizes. <i>Journal of Microelectromechanical Systems</i> , 2021, 30, 589-596.	2.5	7
15	High-Performance Surface Acoustic Wave Devices Using LiNbO ₃ /SiO ₂ /SiC Multilayered Substrates. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021, 69, 3693-3705.	4.6	67
16	Noble-Metal-Assisted Fast Interfacial Oxygen Migration with Topotactic Phase Transition in Perovskite Oxides. <i>Advanced Functional Materials</i> , 2021, 31, 2106765.	14.9	18
17	Power Durability Enhancement and Failure Analysis of TC-SAW Filter With Ti/Cu/Ti/Cu/Ti Electrodes. <i>IEEE Transactions on Device and Materials Reliability</i> , 2021, 21, 365-371.	2.0	2
18	Highly Efficient Spin-Filtering Transport in Chiral Hybrid Copper Halides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23578-23583.	13.8	43

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19	Facilitating room-temperature oxygen ion migration via Co–O bond activation in cobaltite films. <i>Nanoscale</i> , 2021, 13, 18256-18266.	5.6	8
20	Terahertz pulse-induced Néel vector switching in \pm -Fe ₂ O ₃ /Pt heterostructures. <i>Applied Physics Letters</i> , 2021, 119, 212401.	3.3	7
21	Cluster magnetic octupole induced out-of-plane spin polarization in antiperovskite antiferromagnet. <i>Nature Communications</i> , 2021, 12, 6524.	12.8	34
22	Design of a Controllable Redox-Diffusive Threshold Switching Memristor. <i>Advanced Electronic Materials</i> , 2020, 6, 2000695.	5.1	43
23	3D Layout of Interdigital Transducers for High Frequency Surface Acoustic Wave Devices. <i>IEEE Access</i> , 2020, 8, 123262-123271.	4.2	16
24	Ultrafast electron transport in metallic antiferromagnetic Mn ₂ Au thin films probed by terahertz spectroscopy. <i>Physical Review B</i> , 2020, 102, .	3.2	4
25	Enhanced Performance of ZnO/SiO ₂ /Al ₂ O ₃ Surface Acoustic Wave Devices with Embedded Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42378-42385.	8.0	17
26	Functional antiferromagnets for potential applications on high-density storage and high frequency. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	18
27	High-frequency and high-temperature stable surface acoustic wave devices on ZnO/SiO ₂ /SiC structure. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 305102.	2.8	12
28	Lateral 2D WSe ₂ p-n Homojunction Formed by Efficient Charge-Carrier Type Modulation for High-Performance Optoelectronics. <i>Advanced Materials</i> , 2020, 32, e1906499.	21.0	103
29	Realization of Isolated and High-Density Skyrmions at Room Temperature in Uncompensated Synthetic Antiferromagnets. <i>Nano Letters</i> , 2020, 20, 3299-3305.	9.1	42
30	Electric field control of Néel spin-orbit torque in an antiferromagnet. <i>Nature Materials</i> , 2019, 18, 931-935.	27.5	132
31	Tuning the magnetotransport behavior of topological insulator with a transition-metal oxide layer. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 405001.	1.8	2
32	Orientation-dependent THz emission in non-collinear antiferromagnetic Mn ₃ Sn and Mn ₃ Sn-based heterostructures. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	25
33	Simultaneous detection of the spin Hall magnetoresistance and Joule heating-induced spin Seebeck effect in Gd ₃ Fe ₅ O ₁₂ /Pt bilayers. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	7
34	The effect of modulated matrix microstructure on the deformation behavior in SiC /Ti17 composites. <i>Materials Letters</i> , 2019, 242, 123-126.	2.6	6
35	Phase-change nanoclusters embedded in a memristor for simulating synaptic learning. <i>Nanoscale</i> , 2019, 11, 5684-5692.	5.6	25
36	Simulation of temperature compensated waveguiding layer acoustic wave devices. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 075105.	2.8	7

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37	High-Frequency Surface Acoustic Wave Devices Based on ZnO/SiC Layered Structure. IEEE Electron Device Letters, 2019, 40, 103-106.	3.9	45
38	Performance-Enhancing Selector via Symmetrical Multilayer Design. Advanced Functional Materials, 2019, 29, 1808376.	14.9	56
39	Facile access to shape-controlled growth of WS ₂ monolayer via environment-friendly method. 2D Materials, 2019, 6, 015007.	4.4	18
40	Enhanced power durability of surface acoustic wave filter with Al/Ti/Cu/Ti electrodes. Journal of Alloys and Compounds, 2018, 740, 222-228.	5.5	10
41	Competition between Metallic and Vacancy Defect Conductive Filaments in a CH ₃ NH ₃ PbI ₃ -Based Memory Device. Journal of Physical Chemistry C, 2018, 122, 6431-6436.	3.1	115
42	Microstructure and interfacial strength of SiC fiber-reinforced Ti17 alloy composites with different consolidation temperatures. Rare Metals, 2018, 37, 759-768.	7.1	13
43	Controllable oxygen vacancies, orbital occupancy and magnetic ordering in SrCoO ₃ films. Journal of Magnetism and Magnetic Materials, 2018, 454, 228-236.	2.3	13
44	Texture-enhanced Al-Cu electrodes on ultrathin Ti buffer layers for high-power durable 2.6 GHz SAW filters. AIP Advances, 2018, 8, 045212.	1.3	11
45	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
46	How to manipulate magnetic states of antiferromagnets. Nanotechnology, 2018, 29, 112001.	2.6	79
47	Enhanced SAW characteristics of a-plane AlN epitaxial films using ZnO buffer layer. Journal of Materials Science: Materials in Electronics, 2018, 29, 3912-3919.	2.2	14
48	Characteristics of one-port surface acoustic wave resonator fabricated on ZnO/6H-SiC layered structure. Journal Physics D: Applied Physics, 2018, 51, 145305.	2.8	12
49	Evolution of microstructures and mechanical properties during solution treatment of a Ti-Mo-containing high-manganese cryogenic steel. Materials Characterization, 2018, 135, 287-294.	4.4	26
50	Adaptive Crystallite Kinetics in Homogenous Bilayer Oxide Memristor for Emulating Diverse Synaptic Plasticity. Advanced Functional Materials, 2018, 28, 1706927.	14.9	140
51	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
52	Recent progress in voltage control of magnetism: Materials, mechanisms, and performance. Progress in Materials Science, 2017, 87, 33-82.	32.8	357
53	Diverse Synaptic Plasticity Induced by the Interplay of Ionic Polarization and Doping at Salt-Doped Electrolyte/Semiconducting Polymer Interface. ACS Omega, 2017, 2, 746-754.	3.5	5
54	Spin-orbit torque switching in MgO/CoFeB/Ta/CoFeB/MgO heterostructures with a critical current density of 10 ⁵ A/cm ² . Japanese Journal of Applied Physics, 2017, 56, 100303.	1.5	4

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55	Photon-gated Spin Transistor. <i>Advanced Materials</i> , 2017, 29, 1604052.	21.0	12
56	Adaptive laser conditioning of reflective thin film based on photo thermal lens probe. <i>Review of Scientific Instruments</i> , 2017, 88, 124901.	1.3	2
57	Manipulation of Electric Field Effect by Orbital Switch. <i>Advanced Functional Materials</i> , 2016, 26, 753-759.	14.9	49
58	Sliding threshold of spike-rate dependent plasticity of a semiconducting polymer/electrolyte cell. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 2412-2417.	2.1	3
59	Strong Electrical Manipulation of Spin-orbit Torque in Ferromagnetic Heterostructures. <i>Advanced Electronic Materials</i> , 2016, 2, 1600219.	5.1	37
60	Spin-Hall-Effect-Assisted Electroresistance in Antiferromagnets via 105 \AA/cm^2 dc Current. <i>Scientific Reports</i> , 2016, 6, 31966.	3.3	5
61	Realisation of all 16 Boolean logic functions in a single magnetoresistance memory cell. <i>Nanoscale</i> , 2016, 8, 12819-12825.	5.6	23
62	Role of Oxygen Ion Migration in the Electrical Control of Magnetism in Pt/Co/Ni/HfO ₂ Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1633-1639.	3.1	41
63	Growth and Characterization of Polyimide-Supported AlN Films for Flexible Surface Acoustic Wave Devices. <i>Journal of Electronic Materials</i> , 2016, 45, 2702-2709.	2.2	10
64	Implementation of Complete Boolean Logic Functions in Single Complementary Resistive Switch. <i>Scientific Reports</i> , 2015, 5, 15467.	3.3	84
65	Electrical Manipulation of Orbital Occupancy and Magnetic Anisotropy in Manganites. <i>Advanced Functional Materials</i> , 2015, 25, 864-870.	14.9	105
66	Magnetoelectric Coupling Induced by Interfacial Orbital Reconstruction. <i>Advanced Materials</i> , 2015, 27, 6651-6656.	21.0	81
67	Electrical Control of the Exchange Spring in Antiferromagnetic Metals. <i>Advanced Materials</i> , 2015, 27, 3196-3201.	21.0	98
68	Forming-free and self-rectifying resistive switching of the simple Pt/TaO _x /n-Si structure for access device-free high-density memory application. <i>Nanoscale</i> , 2015, 7, 6031-6038.	5.6	97
69	Charge Transfer and Orbital Reconstruction in Strain-Engineered (La,Sr)MnO ₃ /LaNiO ₃ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17700-17706.	8.0	35
70	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 Ta ₂ O ₅ -Ta system. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12849-12856.	2.8	47
71	Damage morphology change condition and thermal accumulation effect on high-reflection coatings at 1064nm. <i>Optics Express</i> , 2014, 22, 10151.	3.4	8
72	Frequency Selectivity in Pulse Responses of Pt/Poly(3-Hexylthiophene-2,5-Diyl)/Polyethylene Oxide + Li+/Pt Hetero-Junction. <i>PLoS ONE</i> , 2014, 9, e108316.	2.5	21

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73	Learning processes modulated by the interface effects in a Ti/conducting polymer/Ti resistive switching cell. <i>RSC Advances</i> , 2014, 4, 14822.	3.6	53
74	Anti-Ferromagnet Controlled Tunneling Magnetoresistance. <i>Advanced Functional Materials</i> , 2014, 24, 6806-6810.	14.9	35
75	Reversible Ferromagnetic Phase Transition in Electrode-Gated Manganites. <i>Advanced Functional Materials</i> , 2014, 24, 7233-7240.	14.9	76
76	Realization of the Meminductor. <i>ACS Nano</i> , 2014, 8, 10043-10047.	14.6	30
77	Improved resistive switching stability of Pt/ZnO/CoO x /ZnO/Pt structure for nonvolatile memory devices. <i>Rare Metals</i> , 2013, 32, 544-549.	7.1	11
78	Synaptic plasticity and learning behaviours mimicked through Ag interface movement in an Ag/conducting polymer/Ta memristive system. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5292.	5.5	237
79	Significant enhancement in electromigration resistance and texture of aluminum films using an ultrathin titanium underlayer. <i>Acta Materialia</i> , 2013, 61, 4619-4624.	7.9	9
80	Conductance quantization in a Ag filament-based polymer resistive memory. <i>Nanotechnology</i> , 2013, 24, 335201.	2.6	86
81	Contributions of magnetic properties in epitaxial copper-doped ZnO. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13153.	2.8	23
82	Enhancement of piezoelectric response of diluted Ta doped AlN. <i>Applied Surface Science</i> , 2013, 270, 225-230.	6.1	41
83	Magnetoresistive sensors with hybrid Co/insulator/ZnO:Co junctions. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 160-165.	4.9	4
84	Correlation of oxygen vacancy variations to band gap changes in epitaxial ZnO thin films. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	125
85	Effect of Electrode Materials on AlN-Based Bipolar and Complementary Resistive Switching. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1793-1799.	8.0	56
86	Reply to "Comment on "Dynamic Processes of Resistive Switching in Metallic Filament-Based Organic Memory Devices". <i>Journal of Physical Chemistry C</i> , 2013, 117, 11881-11882.	3.1	12
87	Programmable complementary resistive switching behaviours of a plasma-oxidised titanium oxide nanolayer. <i>Nanoscale</i> , 2013, 5, 422-428.	5.6	66
88	A new type of glucose biosensor based on surface acoustic wave resonator using Mn-doped ZnO multilayer structure. <i>Biosensors and Bioelectronics</i> , 2013, 49, 512-518.	10.1	99
89	Transition Metal-Doped Magnetic Oxides. <i>Semiconductors and Semimetals</i> , 2013, , 227-259.	0.7	5
90	Voltage and Power-Controlled Regimes in the Progressive Unipolar RESET Transition of HfO ₂ -Based RRAM. <i>Scientific Reports</i> , 2013, 3, 2929.	3.3	135

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91	Growth of epitaxial ZnO film on AlN sapphire by radio frequency reactive magnetron sputtering. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 587-589.	2.4	3
92	Cu-Embedded AlN -Based Nonpolar Nonvolatile Resistive Switching Memory. <i>IEEE Electron Device Letters</i> , 2012, 33, 1711-1713.	3.9	36
93	Resistive Switching Induced by Metallic Filaments Formation through Poly(3,4-ethylene-dioxythiophene):Poly(styrenesulfonate). <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 447-453.	8.0	98
94	Dynamic Processes of Resistive Switching in Metallic Filament-Based Organic Memory Devices. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17955-17959.	3.1	190
95	Resistive Switching and Magnetic Modulation in Cobalt-Doped ZnO . <i>Advanced Materials</i> , 2012, 24, 3515-3520.	21.0	252
96	Giant piezoresponse and promising application of environmental friendly small-ion-doped ZnO . <i>Science China Technological Sciences</i> , 2012, 55, 421-436.	4.0	27
97	Nonvolatile resistive switching in single crystalline ZnO nanowires. <i>Nanoscale</i> , 2011, 3, 1917.	5.6	120
98	Bipolar Resistance Switching Characteristics in $\text{TiN}/\text{ZnO}:\text{Mn}/\text{Pt}$ Junctions Developed for Nonvolatile Resistive Memory Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7370-7373.	0.9	6
99	Bipolar resistance switching in high-performance $\text{Cu}/\text{ZnO}:\text{Mn}/\text{Pt}$ nonvolatile memories: active region and influence of Joule heating. <i>New Journal of Physics</i> , 2010, 12, 023008.	2.9	74
100	Microstructure and nanoindentation hardness of Ag/Fe multilayers. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, 110-114.	4.2	11
101	Room Temperature Ferromagnetism in Cobalt-Doped LiNbO_3 Single Crystalline Films. <i>Crystal Growth and Design</i> , 2009, 9, 1235-1239.	3.0	16
102	Fully Room-Temperature-Fabricated Nonvolatile Resistive Memory for Ultrafast and High-Density Memory Application. <i>Nano Letters</i> , 2009, 9, 1636-1643.	9.1	805
103	Amorphous phase and anisotropy induced by glancing incident ion beams in Co/Nb films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 3545-3551.	1.4	2
104	Structural transition and magnetic properties of evaporated Fe/Gd multilayers. <i>Rare Metals</i> , 2008, 27, 484-489.	7.1	4
105	Irradiation damage simulation of Zircaloy-4 using argon ions bombardment. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2008, 15, 285-289.	0.2	1
106	Novel cobalt base superalloy and its high-temperature flow behavior. <i>Rare Metals</i> , 2008, 27, 292-298.	7.1	11
107	Micro-structure, nano-property and nano-tribological behaviour of the permalloy/copper multilayers. <i>Surface and Coatings Technology</i> , 2007, 201, 5988-5993.	4.8	5
108	Creep rate sensitivities of materials by a depth-sensing indentation technique. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2006, 13, 308-312.	0.2	2

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109	Interface diffusion of sputtered CoZrNb films on silicon substrate. <i>Rare Metals</i> , 2006, 25, 36-40.	7.1	1
110	Magnetic Properties of Fe/Ho Multilayers Prepared by Electron-Beam Evaporation. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 084701.	1.6	4
111	Magnetic Transition and Structural Evolution in NiCo/Ag Multilayers. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 4035-4039.	1.5	0
112	Skew Ion-Bombardment-Induced Microstructure and Magnetic Anisotropy Evolutions in the Immiscible Co/Cu System during Deposition Process. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 6869-6874.	1.5	7
113	Amorphization in the Ni/Nb System upon Ion-Beam-Assisted Deposition. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 5369-5372.	1.5	5
114	Structural and Magnetic Characterization of Evaporated Fe/Zr Multilayers. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 1383-1387.	1.5	5