

Shi-shen Yan

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.

146
papers

3,710
citations

32
h-index

56
g-index

155
ext. papers

4,388
ext. citations

5.8
avg. IF

5.55
L-index

#	Paper	IF	Citations
146	Revealing the multiple cathodic and anodic involved charge storage mechanism in an FeSe ₂ cathode for aluminium-ion batteries by in situ magnetometry. <i>Energy and Environmental Science</i> , 2022 , 15, 311-319	35.4	13
145	Van der Waals Epitaxial Deposition of CsPbBr ₃ Films for Flexible Optoelectronic Applications. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 1351-1358	4	1
144	Programmable Spin-Orbit Torque Multistate Memory and Spin Logic Cell.. <i>ACS Nano</i> , 2022 ,	16.7	3
143	High-temperature ferromagnetic metallic phase in LaMnO ₃ /Sr ₃ Al ₂ O ₆ heterostructure. <i>Journal of Materials Science and Technology</i> , 2022 , 119, 69-74	9.1	1
142	Synergistic coupling of NiFeZn-OH nanosheet network arrays on a hierarchical porous NiZn/Ni heterostructure for highly efficient water splitting. <i>Science China Materials</i> , 2022 , 65, 1207-1216	7.1	1
141	Janus VXY monolayers with tunable large Berry curvature. <i>Journal of Semiconductors</i> , 2022 , 43, 042501	2.3	
140	Memristive switching by bulk spin-orbit torque in symmetry-broken ferromagnetic films. <i>Applied Physics Letters</i> , 2022 , 120, 192403	3.4	0
139	Influence of seed layer on the magnetoresistance properties in IrMn-based magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 546, 168674	2.8	1
138	Lithium-Ion Batteries: Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithium-Ion Batteries (Adv. Mater. 12/2021). <i>Advanced Materials</i> , 2021 , 33, 2170093	24	3
137	Controllable field-free switching of perpendicular magnetization through bulk spin-orbit torque in symmetry-broken ferromagnetic films. <i>Nature Communications</i> , 2021 , 12, 2473	17.4	17
136	Spin-orbit torque controllable complete spin logic in a single magnetic heterojunction. <i>Applied Physics Letters</i> , 2021 , 118, 152403	3.4	6
135	Intensity distribution, evolution, and dispersion of discrete spin wave modes in nanoscale spin-torque oscillator. <i>Journal of Applied Physics</i> , 2021 , 129, 243903	2.5	0
134	Deciphering the Oxygen Absorption Pre-edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. <i>Energy and Environmental Materials</i> , 2021 , 4, 246-254	13	24
133	Extra storage capacity in transition metal oxide lithium-ion batteries revealed by in situ magnetometry. <i>Nature Materials</i> , 2021 , 20, 76-83	27	197
132	Tunable interfacial Dzyaloshinskii-Moriya interaction in symmetrical Au/[Fe/Au] multilayers. <i>Nanoscale</i> , 2021 , 13, 2665-2672	7.7	1
131	Bias-field-free high frequency microwave emission of spin-transfer nano-oscillator with magnetizations all in-plane. <i>Applied Physics Letters</i> , 2021 , 118, 012405	3.4	0
130	Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006629	24	39

129	Ferroelectric gate control of Rashba-Dresselhaus spin-orbit coupling in ferromagnetic semiconductor (Zn, Co)O. <i>Applied Physics Letters</i> , 2021 , 119, 012403	3.4	1
128	Reacquainting the Electrochemical Conversion Mechanism of FeS Sodium-Ion Batteries by Operando Magnetometry. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12800-12808	16.4	28
127	Zero-field magnon-photon coupling in antiferromagnet CrCl ₃ . <i>Applied Physics Letters</i> , 2021 , 119, 102402	3.4	2
126	Li-ionic control of magnetism through spin capacitance and conversion. <i>Matter</i> , 2021 ,	12.7	9
125	Interference induced microwave transmission in the YIG-microstrip cavity system. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 540, 168457	2.8	2
124	Controllable Manipulation of the Surface Superstructures and Stoichiometry of Single-Crystal CoO(001). <i>Crystal Growth and Design</i> , 2020 , 20, 2781-2786	3.5	0
123	Amorphous nonstoichiometric oxides with tunable room-temperature ferromagnetism and electrical transport. <i>Science Bulletin</i> , 2020 , 65, 1718-1725	10.6	1
122	[(FeCoB/Ru/FeCoB)/ZnO] _n superlattice multilayer: A real optical mode ferromagnetic resonance thick-film. <i>Applied Physics Letters</i> , 2020 , 116, 152403	3.4	1
121	Interfacial properties in energy storage systems studied by soft x-ray absorption spectroscopy and resonant inelastic x-ray scattering. <i>Journal of Chemical Physics</i> , 2020 , 152, 140901	3.9	10
120	Glide Mirror Plane Protected Nodal-Loop in an Anisotropic Half-Metallic MnNF Monolayer. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 485-491	6.4	15
119	Electrical Control of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque-Induced Magnetization Switching. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900782	6.4	6
118	Terahertz spin-transfer torque oscillator based on a synthetic antiferromagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 497, 166070	2.8	9
117	Nonvolatile Multistates Memories for High-Density Data Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42449-42471	9.5	36
116	Rectified Tunnel Magnetoresistance Device With High On/Off Ratio for In-Memory Computing. <i>IEEE Electron Device Letters</i> , 2020 , 41, 928-931	4.4	13
115	The predicaments and expectations in development of magnetic semiconductors. <i>Journal of Semiconductors</i> , 2019 , 40, 081501	2.3	1
114	High Density of End-Oxygens Induced by NO Adsorption on (2 × 1)NiO/Ni(110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21588-21592	3.8	
113	Erasable and recreatable two-dimensional electron gas at the heterointerface of SrTiO and a water-dissolvable overlayer. <i>Science Advances</i> , 2019 , 5, eaaw7286	14.3	15
112	Perpendicular magnetic anisotropy in La _{1-x} Sr _x CoO _{2.5} + δ /La _{2/3} Sr _{1/3} MnO ₃ /La _{1-x} Sr _x CoO _{2.5} + δ trilayers (x=0.050.5). <i>Physical Review B</i> , 2019 , 100,	3.3	6

111	Large Magnetoresistance and 15 Boolean Logic Functions Based on a ZnCoO Film and Diode Combined Device. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800812	6.4	12
110	Electrical Control of Spin-Mixing Conductance in a Y3Fe5O12/Platinum Bilayer. <i>Physical Review Applied</i> , 2019 , 11,	4.3	7
109	Magnetoresistance: Large Magnetoresistance and 15 Boolean Logic Functions Based on a ZnCoO Film and Diode Combined Device (Adv. Electron. Mater. 3/2019). <i>Advanced Electronic Materials</i> , 2019 , 5, 1970016	6.4	
108	Electric field tunable high-frequency performance in high-resistivity Fe0.5Co0.5-MgO/lead zinc niobate-lead titanate nanogranular film multiferroic heterostructures. <i>Thin Solid Films</i> , 2019 , 686, 137425 ^{2,2}		
107	Temperature-Controlled CO Adsorption Configurations on (2 × 1)NiD/Ni(110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6037-6043	3.8	2
106	Ultrahigh Frequency and Anti-Interference Optical-Mode Resonance with Biquadratic Coupled FeCoB/Ru/FeCoB Trilayers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48230-48238	9.5	7
105	Ten States of Nonvolatile Memory through Engineering Ferromagnetic Remanent Magnetization. <i>Advanced Functional Materials</i> , 2019 , 29, 1806460	15.6	10
104	High Reversibility of Lattice Oxygen Redox Quantified by Direct Bulk Probes of Both Anionic and Cationic Redox Reactions. <i>Joule</i> , 2019 , 3, 518-541	27.8	156
103	Fingerprint Oxygen Redox Reactions in Batteries through High-Efficiency Mapping of Resonant Inelastic X-ray Scattering. <i>Condensed Matter</i> , 2019 , 4, 5	1.8	36
102	Stress-Enhanced Interlayer Exchange Coupling and Optical-Mode FMR Frequency in Self-Bias FeCoB/Ru/FeCoB Trilayers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8853-8859	9.5	20
101	Reversible electrical-field control of magnetization and anomalous Hall effect in Co/PMN-PT hybrid heterostructures. <i>Applied Physics Letters</i> , 2018 , 112, 152904	3.4	5
100	Magnetization precession by short-wavelength magnon excitations and spin-transfer torque. <i>Physical Review B</i> , 2018 , 97,	3.3	4
99	High-Performance Self-Powered UV Detector Based on SnO-TiO Nanomace Arrays. <i>Nanoscale Research Letters</i> , 2018 , 13, 92	5	31
98	Robust half-metallicity in transition metal tribromide nanowires. <i>Nanoscale</i> , 2018 , 10, 15545-15552	7.7	11
97	Distinguishing Interface Magnetoresistance and Bulk Magnetoresistance through Rectification of Schottky Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24905-24909	9.5	4
96	Dual-mode ferromagnetic resonance in an FeCoB/Ru/FeCoB synthetic antiferromagnet with uniaxial anisotropy. <i>Applied Physics Letters</i> , 2018 , 112, 192401	3.4	8
95	Discovery of Two-Dimensional Quantum Spin Hall Effect in Triangular Transition-Metal Carbides. <i>Chinese Physics Letters</i> , 2018 , 35, 087303	1.8	2
94	Discovery of a novel spin-polarized nodal ring in a two-dimensional HK lattice. <i>Nanoscale</i> , 2018 , 10, 20748-20753 ⁷		

93	Nitric Oxide Reaction Pathways on Rutile TiO ₂ (110): The Influence of Surface Defects and Reconstructions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23441-23450	3.8	7
92	Magnetic Anisotropy Controlled by Distinct Interfacial Lattice Distortions at the LaSr CoO/LaSrMnO Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40951-40957	9.5	16
91	Electrical field enhanced interfacial Dzyaloshinskii-Moriya interaction in MgO/Fe/Pt system. <i>Applied Physics Letters</i> , 2018 , 113, 122406	3.4	21
90	Spin-transfer torque oscillator in magnetic tunneling junction with short-wavelength magnon excitation. <i>AIP Advances</i> , 2018 , 8, 055330	1.5	
89	Reversible control of the magnetization of Fe ₃ O ₄ via lithium ions. <i>RSC Advances</i> , 2017 , 7, 2644-2649	3.7	9
88	Enhancing s, p-d exchange interactions at room temperature by carrier doping in single crystalline Co _{0.4} Zn _{0.6} O epitaxial films. <i>Applied Physics Letters</i> , 2017 , 110, 092402	3.4	2
87	Prediction of tunable quantum spin Hall effect in methyl-functionalized tin film. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2656-2661	7.1	14
86	Reversible control of magnetization of Fe ₃ O ₄ by a solid-state film lithium battery. <i>Applied Physics Letters</i> , 2017 , 110, 062404	3.4	18
85	High-efficiency in situ resonant inelastic x-ray scattering (iRIXS) endstation at the Advanced Light Source. <i>Review of Scientific Instruments</i> , 2017 , 88, 033106	1.7	86
84	First-principles prediction on bismuthylene monolayer as a promising quantum spin Hall insulator. <i>Nanoscale</i> , 2017 , 9, 8207-8212	7.7	23
83	Impact of interfacial effects on ferroelectric resistance switching of Au/BiFeO ₃ /Nb:SrTiO ₃ (100) Schottky junctions. <i>RSC Advances</i> , 2017 , 7, 22715-22721	3.7	18
82	Tunability of the Quantum Spin Hall Effect in Bi(110) Films: Effects of Electric Field and Strain Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21515-21523	9.5	20
81	Discovery of intrinsic quantum anomalous Hall effect in organic Mn-DCA lattice. <i>Applied Physics Letters</i> , 2017 , 110, 233107	3.4	52
80	Two-dimensional arsenene oxide: A realistic large-gap quantum spin Hall insulator. <i>Applied Physics Letters</i> , 2017 , 110, 213101	3.4	100
79	Growth-Controlled Engineering of Magnetic Exchange Interactions in Single Crystalline GaCoZnO _{1-x} Epitaxial Films with High Co Concentration. <i>Chemistry of Materials</i> , 2017 , 29, 2717-2723	9.6	5
78	Complex magnetic phase diagram with multistep spin-flop transitions in La _{0.25} Pr _{0.75} Co ₂ P ₂ . <i>Physical Review B</i> , 2017 , 95,	3.3	3
77	Prediction of topological crystalline insulators and topological phase transitions in two-dimensional PbTe films. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29647-29652	3.6	6
76	Reversible control of the magnetization of spinel ferrites based electrodes by lithium-ion migration. <i>Scientific Reports</i> , 2017 , 7, 12554	4.9	21

75	Role of Superexchange Interaction on Tuning of Ni/Li Disorder in Layered Li(NiMnCo)O. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5537-5542	6.4	62
74	Unconventional band inversion and intrinsic quantum spin Hall effect in functionalized group-V binary films. <i>Scientific Reports</i> , 2017 , 7, 6126	4.9	13
73	Scenarios of polaron-involved molecular adsorption on reduced TiO(110) surfaces. <i>Scientific Reports</i> , 2017 , 7, 6148	4.9	11
72	Two-dimensional GaGeTe film: a promising graphene-like material with tunable band structure and high carrier mobility. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8847-8853	7.1	13
71	Intrinsic Dirac half-metal and quantum anomalous Hall phase in a hexagonal metal-oxide lattice. <i>Physical Review B</i> , 2017 , 96,	3.3	112
70	Effect of Amidogen Functionalization on Quantum Spin Hall Effect in Bi/Sb(111) Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41443-41453	9.5	101
69	Emergence of ferrimagnetic half-metallicity in two-dimensional MXene Mo ₃ N ₂ F ₂ . <i>Applied Physics Letters</i> , 2017 , 111, 202405	3.4	18
68	Formation and evolution of orientation-specific CO chains on nonpolar ZnO(10 10) surfaces. <i>Scientific Reports</i> , 2017 , 7, 43442	4.9	4
67	Quantitative probe of the transition metal redox in battery electrodes through soft x-ray absorption spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 413003	3	74
66	Functionalized Thallium Antimony Films as Excellent Candidates for Large-Gap Quantum Spin Hall Insulator. <i>Scientific Reports</i> , 2016 , 6, 21351	4.9	25
65	High-Performance Self-powered Photodetectors Based on ZnO/ZnS Core-Shell Nanorod Arrays. <i>Nanoscale Research Letters</i> , 2016 , 11, 420	5	43
64	Room Temperature Quantum Spin Hall Insulator in Ethynyl-Derivative Functionalized Stanene Films. <i>Scientific Reports</i> , 2016 , 6, 18879	4.9	48
63	Engineering optical mode ferromagnetic resonance in FeCoB films with ultrathin Ru insertion. <i>Scientific Reports</i> , 2016 , 6, 33349	4.9	30
62	Rashba spin-orbit coupling enhanced anomalous Hall effect in Mn _x Si _{1-x} /SiO ₂ /Si p-n junctions. <i>RSC Advances</i> , 2016 , 6, 55930-55935	3.7	3
61	Disorder-enhanced spin polarization of the Zn _{1-x} CoxO _{1-x} concentrated magnetic semiconductor. <i>RSC Advances</i> , 2016 , 6, 8043-8047	3.7	
60	Tunable Optical Mode Ferromagnetic Resonance in FeCoB/Ru/FeCoB Synthetic Antiferromagnetic Trilayers under Uniaxial Magnetic Anisotropy. <i>Advanced Functional Materials</i> , 2016 , 26, 3738-3744	15.6	60
59	Oxygen vacancies controlled multiple magnetic phases in epitaxial single crystal Co _{0.5} (Mg _{0.55} Zn _{0.45}) _{0.5} O(1-v) thin films. <i>Scientific Reports</i> , 2016 , 6, 24188	4.9	10
58	Study of flux pinning mechanism under hydrostatic pressure in optimally doped (Ba,K)Fe ₂ As ₂ single crystals. <i>Scientific Reports</i> , 2016 , 6, 23044	4.9	20

57	Unexpected Giant-Gap Quantum Spin Hall Insulator in Chemically Decorated Plumbene Monolayer. <i>Scientific Reports</i> , 2016 , 6, 20152	4.9	131
56	Electrical control of exchange bias via oxygen migration across CoO-ZnO nanocomposite barrier. <i>Applied Physics Letters</i> , 2016 , 109, 252406	3.4	9
55	Large-gap quantum spin Hall state in functionalized dumbbell stanene. <i>Applied Physics Letters</i> , 2016 , 108, 073104	3.4	77
54	Robust ferromagnetism of single crystalline $\text{Co}_x\text{Zn}_{1-x}\text{O}$ (0.3 $\leq x \leq$ 0.45) epitaxial films with high Co concentration. <i>Applied Physics Letters</i> , 2016 , 109, 052404	3.4	3
53	Silicon-based chalcogenide: Unexpected quantum spin Hall insulator with sizable band gap. <i>Applied Physics Letters</i> , 2016 , 109, 182109	3.4	62
52	Giant gap quantum spin Hall effect and valley-polarized quantum anomalous Hall effect in cyanided bismuth bilayers. <i>New Journal of Physics</i> , 2016 , 18, 083002	2.9	14
51	Electrical control of memristance and magnetoresistance in oxide magnetic tunnel junctions. <i>Nanoscale</i> , 2015 , 7, 6334-9	7.7	20
50	Ethynyl-functionalized stanene film: a promising candidate as large-gap quantum spin Hall insulator. <i>New Journal of Physics</i> , 2015 , 17, 083036	2.9	139
49	Adsorption and interaction of CO ₂ on rutile TiO ₂ (110) surfaces: a combined UHV-FTIRS and theoretical simulation study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23994-4000	3.6	21
48	Evidence for Half-Metallicity in n-type HgCr ₂ Se ₄ . <i>Physical Review Letters</i> , 2015 , 115, 087002	7.4	52
47	Stanene cyanide: a novel candidate of Quantum Spin Hall insulator at high temperature. <i>Scientific Reports</i> , 2015 , 5, 18604	4.9	12
46	Large rectification magnetoresistance in nonmagnetic Al/Ge/Al heterojunctions. <i>Scientific Reports</i> , 2015 , 5, 14249	4.9	17
45	Interfacial magnetic coupling in ultrathin all-manganite La _{0.7} Sr _{0.3} MnO ₃ -TbMnO ₃ superlattices. <i>Applied Physics Letters</i> , 2014 , 104, 152404	3.4	24
44	Silicane as an Inert Substrate of Silicene: A Promising Candidate for FET. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25278-25283	3.8	55
43	UHV-FTIRS studies on molecular competitive adsorption: 12CO, 13CO and CO ₂ on reduced TiO ₂ (110) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23711-5	3.6	5
42	Decoupled scenario between the conductive carriers and the ferromagnetism in epitaxial Zn _{0.85} MgxCo _{0.15} O thin films. <i>Applied Physics Letters</i> , 2014 , 105, 072404	3.4	5
41	Spin memristive magnetic tunnel junctions with CoO-ZnO nano composite barrier. <i>Scientific Reports</i> , 2014 , 4, 3835	4.9	18
40	Manipulation of half-metallicity and ferromagnetism in N-doped CdS nanowire. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	6

39	Self-powered solid-state photodetector based on TiO ₂ nanorod/spiro-MeOTAD heterojunction. <i>Applied Physics Letters</i> , 2013 , 103, 261109	3.4	32
38	Giant magnetoresistance: history, development and beyond. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 2-14	3.6	13
37	Novel electronic and magnetic properties in N or B doped silicene nanoribbons. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2735	7.1	65
36	Structure, band gap, and Mn-related mid-gap states in epitaxial single crystal (Zn _{1-x} Mg _x) _{1-x} MnyO thin films. <i>Journal of Applied Physics</i> , 2013 , 113, 173701	2.5	0
35	Phase transformation and lithiation effect on electronic structure of Li(x)FePO ₄ : an in-depth study by soft X-ray and simulations. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13708-15	16.4	121
34	Half-Metallic Properties Induced by Fluorine in Aluminum Nitride Nanosheet. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 044705	1.5	1
33	First-Principles Study of Ferromagnetism in Two-Dimensional Silicene with Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4163-4166	3.8	228
32	Spin-polarization of VGaON center in GaN and its application in spin qubit. <i>Applied Physics Letters</i> , 2012 , 100, 192401	3.4	22
31	Enhanced tunnel magnetoresistance in fully epitaxial ZnO:Co-based magnetic tunnel junctions with Mg-doped ZnO barrier. <i>Applied Physics Letters</i> , 2012 , 100, 132406	3.4	11
30	High-frequency electromagnetic properties of compositionally graded FeCoB-SiO ₂ granular films deposited on flexible substrates. <i>Journal of Applied Physics</i> , 2012 , 111, 113909	2.5	9
29	First-principles characterization of an AlSiVC center in cubic silicon carbide. <i>Journal of Applied Physics</i> , 2011 , 110, 033711	2.5	7
28	First-principles study on the electronic and magnetic properties of hydrogenated CdS nanosheets. <i>Journal of Applied Physics</i> , 2011 , 109, 094304	2.5	26
27	Response to Comment on Inversed tunneling magnetoresistance in hybrid FePt/Fe ₃ O ₄ core/shell nanoparticles systems[J. Appl. Phys. 109, 086101 (2011)]. <i>Journal of Applied Physics</i> , 2011 , 109, 086102	2.5	
26	Homogeneous amorphous Fe _x Ge _{1-x} magnetic semiconductor films with high Curie temperature and high magnetization. <i>Physical Review B</i> , 2011 , 83,	3.3	8
25	ENHANCEMENT OF ENERGY PRODUCT WITH INSERTION OF Ti BETWEEN EXCHANGE COUPLED SmCo AND Fe LAYERS. <i>International Journal of Modern Physics B</i> , 2011 , 25, 2957-2963	1.1	2
24	Tunable rectification and giant positive magnetoresistance in Ge _{1-x} Mnx/Ge epitaxial heterojunction diodes. <i>Journal of Applied Physics</i> , 2010 , 107, 024514	2.5	7
23	First-principles prediction of half-metallic ferromagnetism in Cu-doped ZnS. <i>Journal of Applied Physics</i> , 2010 , 107, 043913	2.5	60
22	Controllable spin-polarized electrical transport in wide-band-gap oxide ferromagnetic semiconductors. <i>Journal of Applied Physics</i> , 2010 , 107, 033713	2.5	8

21	Inversed tunneling magnetoresistance in hybrid FePt/Fe ₃ O ₄ core/shell nanoparticles systems. <i>Journal of Applied Physics</i> , 2010 , 108, 103905	2.5	10
20	Magnetic properties of rutile TiO ₂ -1/6 from first-principles calculations. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 236-238	2.5	3
19	Tunable ferromagnetism by oxygen vacancies in Fe-doped In ₂ O ₃ magnetic semiconductor. <i>Journal of Applied Physics</i> , 2009 , 106, 043909	2.5	31
18	Oxygen vacancy induced ferromagnetism in rutile TiO ₂ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 148-150	2.5	33
17	Orientation-Dependent Stability and Quantum-Confinement Effects of Silicon Carbide Nanowires. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12731-12735	3.8	27
16	First-principles study on ferromagnetism in Mg-doped SnO ₂ . <i>Applied Physics Letters</i> , 2009 , 95, 232108	3.4	98
15	Origin of ferromagnetism of Co-doped SnO ₂ from first-principles calculations. <i>Journal of Applied Physics</i> , 2009 , 106, 063709	2.5	23
14	Origin of large positive magnetoresistance in the hard-gap regime of epitaxial Co-doped ZnO ferromagnetic semiconductors. <i>Physical Review B</i> , 2009 , 79,	3.3	28
13	Zeeman Splitting-Induced Positive Magnetoresistance in Co-Doped ZnO and Co-Doped Cu O_{2} Ferromagnetic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2712-2714	2	5
12	Giant positive magnetoresistance in Co-doped ZnO nanocluster films. <i>Applied Physics Letters</i> , 2008 , 92, 192109	3.4	18
11	Structures and magnetic properties of (Fe, Li)-codoped NiO thin films. <i>Applied Physics Letters</i> , 2008 , 92, 052508	3.4	19
10	Magnetism of amorphous Ge _{1-x} Mnx magnetic semiconductor films. <i>Journal of Applied Physics</i> , 2008 , 104, 013905	2.5	14
9	High TC ferromagnetism of Zn(1-x)Co _x O diluted magnetic semiconductors grown by oxygen plasma-assisted molecular beam epitaxy. <i>Applied Physics Letters</i> , 2007 , 90, 052504	3.4	76
8	Spin-dependent variable range hopping and magnetoresistance in Ti(1-x)Co(x)O(2) and Zn(1-x)Co(x)O magnetic semiconductor films. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 10469-80	1.8	35
7	Ferromagnetism and magnetoresistance of Co _z NiO inhomogeneous magnetic semiconductors. <i>Applied Physics Letters</i> , 2004 , 84, 2376-2378	3.4	85
6	Magnetic phase diagrams of the trilayers with the noncollinear coupling in the form of the proximity magnetism model. <i>Journal of Applied Physics</i> , 2000 , 88, 983-987	2.5	6
5	Ferromagnetic Resonance in Co _z Cr/Pd Multilayers. <i>Physica Status Solidi A</i> , 1997 , 161, 507-513		2
4	Magneto-optic properties in multilayers Fe _z Bi/Cr and Co _z Ni _{1-z} /Pd. <i>Physica Status Solidi A</i> , 1995 , 149, 733-739		1

3	Deciphering the Oxygen Absorption Pre-Edge: Universal Map of Transition Metal Redox Potentials in Batteries		2
2	Purely Electrical Controllable Complete Spin Logic in a Single Magnetic Heterojunction. <i>Advanced Functional Materials</i> ,2105359	15.6	10
1	Flexible Mott Synaptic Transistor on Polyimide Substrate for Physical Neural Networks. <i>Advanced Electronic Materials</i> ,2200078	6.4	1