

Lan Wang

List of Publications by Year in descending order

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119
papers

5,098
citations

81743

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120
docs citations

120
times ranked

6806
citing authors

#	ARTICLE	IF	CITATIONS
1	Stacking-Dependent Interlayer Ferroelectric Coupling and Moiré Domains in a Twisted AgBiP ₂ Se ₆ Bilayer. Journal of Physical Chemistry Letters, 2022, 13, 2027-2032.	2.1	6
2	Nonlinear antidamping spin-orbit torque originating from intraband transport on the warped surface of a topological insulator. Physical Review B, 2022, 105, .	1.1	3
3	Tunable artificial topological Hall effects in van der Waals heterointerfaces. Physical Review B, 2022, 105, .	1.1	7
4	Cross-over from weak localization to anti-localization in rare earth doped TRS protected topological insulators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 385, 126953.	0.9	6
5	Tailoring Dzyaloshinskii-Moriya interaction in a transition metal dichalcogenide by dual-intercalation. Nature Communications, 2021, 12, 3639.	5.8	28
6	Gate-Controlled Magnetic Phase Transition in a van der Waals Magnet Fe ₅ Ge ₂ . Nano Letters, 2021, 21, 5599-5605.	4.5	45
7	Massive Dirac fermions and strong Shubnikov-de Haas oscillations in single crystals of the topological insulator Bi_2Te_3 . Nature Communications, 2021, 12, 3639.	11.6	6
8	Enhanced static and dynamic magnetic properties of PEG-400 coated CoFe ₂ O ₄ (0.7 μm Tj ETQq0.0.0 rgBT /Overlock 10	2.8	23
9	nanoferrites. Journal of Alloys and Compounds, 2021, 887, 161418. Defects Engineering Induced Ultrahigh Magnetization in Rare Earth Element Nd-doped MoS ₂ . Advanced Quantum Technologies, 2021, 4, 2000093.	1.8	19
10	Spin-Momentum Locking Induced Anisotropic Magnetoresistance in Monolayer WTe ₂ . Nano Letters, 2021, 21, 9005-9011.	4.5	7
11	Nonlinear Ballistic Response of Quantum Spin Hall Edge States. Physical Review Letters, 2021, 127, 206801.	2.9	11
12	High Coercivity and Magnetization in WSe ₂ by Codoping Co and Nb. Small, 2020, 16, e1903173.	5.2	43
13	Ordered-vacancy-enabled indium sulphide printed in wafer-scale with enhanced electron mobility. Materials Horizons, 2020, 7, 827-834.	6.4	27
14	Gate-Tuned Interlayer Coupling in van der Waals Ferromagnet Fe_3S_2 Nanoflakes. Physical Review Letters, 2020, 125, 047202.	2.9	87
15	Quantum Transport in Air-Stable Na ₃ Bi Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 35542-35546.	4.0	7
16	Nonvolatile Multistates Memories for High-Density Data Storage. ACS Applied Materials & Interfaces, 2020, 12, 42449-42471.	4.0	101
17	Imaging Domain Reversal in an Ultrathin Van der Waals Ferromagnet. Advanced Materials, 2020, 32, e2003314.	11.1	47
18	Colossal Magnetization and Giant Coercivity in Ion-Implanted (Nb and Co) MoS ₂ Crystals. ACS Applied Materials & Interfaces, 2020, 12, 58140-58148.	4.0	22

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19	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. Nature Communications, 2020, 11, 3449.	5.8	128
20	Microwave spin resonance investigation on the effect of the post-processing annealing of CoFe ₂ O ₄ nanoparticles. Nanoscale Advances, 2020, 2, 1939-1948.	2.2	31
21	Antisymmetric magnetoresistance in van der Waals Fe ₃ GeTe ₂ /graphite/Fe ₃ GeTe ₂ trilayer heterostructures. Science Advances, 2019, 5, eaaw0409.	4.7	119
22	Wafer-Sized Ultrathin Gallium and Indium Nitride Nanosheets through the Ammonolysis of Liquid Metal Derived Oxides. Journal of the American Chemical Society, 2019, 141, 104-108.	6.6	107
23	Hard magnetic properties in nanoflake van der Waals Fe ₃ GeTe ₂ . Nature Communications, 2018, 9, 1554.	5.8	272
24	Nanograting-assisted generation of surface plasmon polaritons in Weyl semimetal WTe ₂ . Optical Materials, 2018, 86, 421-423.	1.7	25
25	Direct visualization of current-induced spin accumulation in topological insulators. Nature Communications, 2018, 9, 2492.	5.8	30
26	The diffusion of charged particles in the weakly ionized plasma with power-law kappa-distributions. Physics of Plasmas, 2017, 24, .	0.7	14
27	Topological-insulator-based terahertz modulator. Scientific Reports, 2017, 7, 13486.	1.6	20
28	Visible Range Plasmonic Modes on Topological Insulator Nanostructures. Advanced Optical Materials, 2017, 5, 1600768.	3.6	55
29	Intrinsically core-shell plasmonic dielectric nanostructures with ultrahigh refractive index. Science Advances, 2016, 2, e1501536.	4.7	99
30	Visible Range Plasmons in Topological Insulators. , 2016, , .		1
31	Magnetic proximity effect in the topological insulator BiSbTeSe ₂ . Physica Status Solidi - Rapid Research Letters, 2015, 9, 175-179.	1.2	4
32	Gate-tuned quantum oscillations of topological surface states in $\hat{\Gamma}^2$ -Ag ₂ Te. Scientific Reports, 2015, 5, 8062.	1.6	15
33	Electrically Tunable In-Plane Anisotropic Magnetoresistance in Topological Insulator BiSbTeSe ₂ Nanodevices. Nano Letters, 2015, 15, 2061-2066.	4.5	56
34	Defect-induced negative magnetoresistance and surface state robustness in the topological insulator BiSbTeSe_2 . Physical Review B, 2014, 90, .		36
35	Temperature-dependent ultrafast carrier and phonon dynamics of topological insulator Bi _{1.5} Sb _{0.5} Te _{1.8} Se _{1.2} . Applied Physics Letters, 2014, 104, .	1.5	29
36	Ultraviolet and visible range plasmonics in the topological insulator Bi _{1.5} Sb _{0.5} Te _{1.8} Se _{1.2} . Nature Communications, 2014, 5, 5139.	5.8	129

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37	UV & Visible Plasmonic Metamaterials Made of Topological Insulator. , 2014, , .		0
38	Plasmonic Properties and Photoinduced Reflectance of Topological Insulator. , 2014, , .		0
39	Oxygen-driven anisotropic transport in ultra-thin manganite films. Nature Communications, 2013, 4, 2778.	5.8	68
40	Experimental evidences of topological surface states of \hat{I}^2 -Ag ₂ Te. AIP Advances, 2013, 3, 032123.	0.6	36
41	Terahertz conductivity of topological surface states in Bi _{1.5} Sb _{0.5} Te _{1.8} Se _{1.2} . Scientific Reports, 2013, 3, 3513.	1.6	51
42	Optical response characteristics arising from delocalized electrons in phase change materials. Acta Materialia, 2013, 61, 1757-1763.	3.8	11
43	Temperature controlled c axis elongated low symmetry phase BiFeO ₃ thin film on STO substrate. AIP Advances, 2013, 3, 012110.	0.6	3
44	Multiferroicity in manganite/titanate superlattices determined by oxygen pressure-mediated cation defects. Journal of Applied Physics, 2013, 113, 164302.	1.1	2
45	Room temperature ferromagnetism in epitaxial nanoflake devices of topological insulator Bi _{1.5} Sb _{0.5} Te _{1.8} Se _{1.2} . Applied Physics Letters, 2013, 100, 113101.	1.1	120
46	Correlation between optical absorption redshift and carrier density in phase change materials. Journal of Applied Physics, 2013, 114, .	1.1	6
47	Room temperature ferromagnetism via unpaired dopant electrons and p-d coupling in carbon-doped In ₂ O ₃ . Applied Physics Letters, 2013, 100, 113101.	1.1	33
48	Anisotropic magnetoresistance in topological insulator Bi _{1.5} Sb _{0.5} Te _{1.8} Se _{1.2} /CoFe heterostructures. AIP Advances, 2012, 2, 042171.	0.6	10
49	Origin of Long-Range Ferromagnetic Ordering in Metal-Organic Frameworks with Antiferromagnetic Dimeric-Cu(II) Building Units. Journal of the American Chemical Society, 2012, 134, 17286-17290.	6.6	86
50	Dielectric dynamics of epitaxial BiFeO ₃ thin films. AIP Advances, 2012, 2, .	0.6	4
51	Anomalous phase change characteristics in Fe-Te materials. Applied Physics Letters, 2012, 100, .	1.5	14
52	Large exchange bias obtainable through zero-field cooling from an unmagnetized state in Ni-Mn-Sn alloys. Journal of Applied Physics, 2012, 111, 043912.	1.1	45
53	Interface and Surface Cation Stoichiometry Modified by Oxygen Vacancies in Epitaxial Manganite Films. Advanced Functional Materials, 2012, 22, 4312-4321.	7.8	65
54	Origin of the colossal dielectric permittivity and magnetocapacitance in LuFe ₂ O ₄ . Journal of Applied Physics, 2011, 109, .	1.1	46

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55	Large Exchange Bias after Zero-Field Cooling from an Unmagnetized State. Physical Review Letters, 2011, 106, 077203.	2.9	279
56	Negative magnetization, magnetic anisotropy and magnetic ordering studies on Al ³⁺ -substituted copper ferrite. Journal of Alloys and Compounds, 2011, 509, 4861-4867.	2.8	51
57	A possible origin of room temperature ferromagnetism in Indium-Tin oxide thin film: Surface spin polarization and ferromagnetism. Physica B: Condensed Matter, 2011, 406, 3166-3169.	1.3	23
58	Epitaxial growth of CoFe ₂ O ₄ on SrTiO ₃ (100) and MgO (100) substrates without buffer layer by laser molecular beam epitaxy technique. Thin Solid Films, 2011, 519, 2067-2070.	0.8	8
59	Possible room temperature ferromagnetism of Li-doped anatase TiO ₂ : A first-principles study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4451-4454.	0.9	18
60	Enhanced magnetoresistance through magnetic-field-induced phase transition in Ni ₂ MnGa co-doped with Co and Mn. Journal of Magnetism and Magnetic Materials, 2010, 322, 715-717.	1.0	16
61	Optical and ferromagnetic characteristics of Mn doped ZnO thin films grown by filtered cathodic vacuum arc technique. Thin Solid Films, 2010, 518, 7048-7052. Growth and structure investigation of multiferroic superlattices: $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si22.gif" display="inline"} \rangle$	0.8	4
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73	Strong thermal-history-dependent magnetoresistance behavior in Ni _{49.5} Mn _{34.5} In ₁₆ . Journal of Applied Physics, 2009, 106, 063909.	1.1	39
74	First-principles study of the magnetization of oxygen-depleted In ₂ O ₃ (001) surfaces. Journal of Physics Condensed Matter, 2009, 21, 272202.	0.7	22
75	Anomalous Hall effect in Cu and Fe codoped In ₂ O ₃ and ITO thin films. Physica B: Condensed Matter, 2009, 404, 2117-2121.	1.3	7
76	First-principles study on ferromagnetism in nitrogen-doped In ₂ O ₃ . Applied Physics Letters, 2009, 95, 012509.	1.5	59
77	Coupled structural/magnetocrystalline anisotropy transitions in the doped perovskite cobaltite $\text{Pr}_{1-x}\text{Ca}_x\text{Co}_2\text{O}_7$. Physical Review B, 2009, 79, .	1.1	45
78	Density functional study on ferromagnetism in nitrogen-doped anatase TiO ₂ . Applied Physics Letters, 2009, 95, 062505.	1.5	85
79	Stable ferromagnetism in p-type carbon-doped ZnO nanoneedles. Applied Physics Letters, 2009, 95, .	1.5	45
80	Room temperature ferromagnetism of bulk polycrystalline (In _{0.85} ~xSn _x Fe _{0.15}) ₂ O ₃ : Charge carrier mediated or oxygen vacancy mediated?. Applied Physics Letters, 2009, 95, 102101.	1.5	28
81	P-type electrical, photoconductive, and anomalous ferromagnetic properties of Cu ₂ O nanowires. Applied Physics Letters, 2009, 94, .	1.5	95
82	Intrinsic phase separation in a single crystal of La _{0.98} Pb _{0.02} Mn _{0.74} Co _{0.25} O ₃ . Journal of Applied Physics, 2009, 105, 013917.	1.1	7
83	A second-order ferromagnetic transition in the martensitic state of Ni _{49.5} Mn _{32.5} Cu ₄ Sn ₁₄ : A critical behavior study. Journal of Applied Physics, 2009, 105, .	1.1	26
84	The kinetic energy dependent effective Debye temperature for CoS ₂ (100). Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2484-2489.	0.9	3
85	Ferromagnetism in ZnO Nanowires Derived from Electrodeposition on AAO Template and Subsequent Oxidation. Advanced Materials, 2008, 20, 1170-1174.	11.1	135
86	Doping effect on magnetic and transport properties of Pr ₂ SrCo ₄ . Journal of Physics Condensed Matter, 2008, 20, 395213.	0.7	7
87	COMPARISON OF MAGNETIC PROPERTY OF Cu-, Al-, AND Li-DOPED ZnO DILUTE MAGNETIC SEMICONDUCTOR THIN FILMS. Surface Review and Letters, 2008, 15, 81-85.	0.5	5
88	Exchange bias and its training effect in the martensitic state of bulk polycrystalline Ni _{49.5} Mn _{34.5} In ₁₆ . Journal of Applied Physics, 2008, 104, .	1.1	62
89	Magnetic and magnetotransport properties in Cu and Fe co-doped bulk In ₂ O ₃ and ITO. Journal of Physics Condensed Matter, 2008, 20, 475204.	0.7	14
90	Effect of oxygen vacancy on ferromagnetism and electric transport of bulk polycrystalline (In _{0.8} Mo _{0.05} Fe _{0.15}) ₂ O ₃ . Applied Physics Letters, 2008, 93, 222506.	1.5	13

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91	Magnetic and electric transport properties of Nd _{0.75} Sr _{1.25} Co _{1-x} Mn _x O ₄ . Journal of Applied Physics, 2008, 104, .	1.1	3
92	The electronic band structure of CoS ₂ . Journal of Physics Condensed Matter, 2007, 19, 156224.	0.7	19
93	The structure of the CoS ₂ (100)-(1 Å ⁻¹) surface. Journal of Physics Condensed Matter, 2007, 19, 156223.	0.7	7
94	Magnetic anisotropy in the ferromagnetic Cu-doped ZnO nanoneedles. Applied Physics Letters, 2007, 90, 032509.	1.5	102
95	Composition controlled spin polarization in Co _{1-x} Fe _x S ₂ alloys. Journal of Physics Condensed Matter, 2007, 19, 315219.	0.7	39
96	The structure of the CoS ₂ (100)-(1 Å ⁻¹) surface. Journal of Physics Condensed Matter, 2007, 19, 249001.	0.7	1
97	Magnetic and electronic properties of La _{1-x} Sr _x CoO ₃ single crystals across the percolation metal-insulator transition. Physical Review B, 2006, 74, .	1.1	74
98	Composition controlled spin polarization in Co _{1-x} Fe _x S ₂ : Electronic, magnetic, and thermodynamic properties. Physical Review B, 2006, 73, .	1.1	43
99	Spin Dynamics in Highly Spin Polarized Co _{1-x} Fe _x S ₂ . AIP Conference Proceedings, 2006, , .	0.3	0
100	Electronic structure of Co _{1-x} Fe _x S ₂ . Physica Status Solidi (B): Basic Research, 2006, 243, 2117-2121.	0.7	25
101	Evolution with Composition of the Band Density of States at the Fermi Level in Highly Spin Polarized Co _{1-x} Fe _x S ₂ . Physical Review Letters, 2006, 96, 167208.	2.9	12
102	Exchange Bias as a Probe of the Incommensurate Spin-Density Wave in Epitaxial Fe/Cr(001). Physical Review Letters, 2006, 97, 227206.	2.9	21
103	Sulfur stoichiometry effects in highly spin polarized CoS ₂ single crystals. Applied Physics Letters, 2006, 88, 232509.	1.5	35
104	Co _{1-x} Fe _x S ₂ : A Tunable Source of Highly Spin-Polarized Electrons. Physical Review Letters, 2005, 94, 056602.	2.9	77
105	Density functional study of the adsorption of a C ₆₀ monolayer on Ag(111) and Au(111) surfaces. Physical Review B, 2004, 69, .	1.1	160
106	Magnetic relaxation in spinel Mo-ferrite and Ti substituted Mo-ferrite. European Physical Journal B, 2002, 27, 49-54.	0.6	1
107	Hard magnetic properties and magnetocaloric effect in amorphous NdFeAl ribbons. Journal of Alloys and Compounds, 2001, 316, 260-263.	2.8	10
108	Model of ferromagnetic clusters in amorphous rare earth and transition metal alloys. Journal of Applied Physics, 2001, 89, 8046-8053.	1.1	18

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109	Bulk Hard Magnetic Alloys in Nd-Fe-B System Prepared by Casting and Melt Spinning. Materials Transactions, 2001, 42, 674-677.	0.4	2
110	Monte Carlo simulation of a cluster system with strong interaction and random anisotropy. Physical Review B, 2001, 64, .	1.1	76
111	A magnetic and Mössbauer study of melt-spun Nd ₆₀ Fe ₃₀ Al ₁₀ . Journal of Magnetism and Magnetic Materials, 2001, 224, 143-152.	1.0	27
112	A model for magnetic ordering in inhomogeneous amorphous RE-Fe-Al alloys. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1504-1506.	1.0	4
113	Amorphous magnetic RE-Fe-Al alloys. IEEE Transactions on Magnetics, 2001, 37, 2500-2502.	1.2	7
114	Strong uni-directional anisotropy in disordered NiFe ₂ O ₄ . Solid State Communications, 2000, 115, 237-241.	0.9	41
115	A superferromagnetic approach for rapidly quenched Y ₆₀ Fe ₃₀ Al ₁₀ alloys. Journal of Physics Condensed Matter, 2000, 12, 4253-4262.	0.7	16
116	Cluster-glass behaviour of the substituted molybdenum ferrite: a magnetic and Mössbauer study. Journal of Physics Condensed Matter, 2000, 12, 9963-9972.	0.7	5
117	Thermal-Induced Microstructural Changes of Nickel-Iron Cyanide. Journal of Physical Chemistry A, 2000, 104, 8814-8822.	1.1	24
118	A structural, magnetic and Mössbauer investigation on melt-spun Nd _{0.33} (Fe _{0.75} Al _{0.25}) _{0.67} ribbons. Journal of Physics Condensed Matter, 1999, 11, 10557-10566.	0.7	1
119	Anomalous magnetic viscosity in bulk-amorphous materials. Journal of Magnetism and Magnetic Materials, 1999, 206, 127-134.	1.0	19