

Yong Liu

List of Publications by Year in descending order

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82
papers

1,808
citations

516710

16
h-index

289244

40
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82
all docs

82
docs citations

82
times ranked

3296
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Surface Oxygen in the Growth of Large Single-Crystal Graphene on Copper. <i>Science</i> , 2013, 342, 720-723.	12.6	977
2	High-temperature ferromagnetic semiconductors: Janus monolayer vanadium trihalides. <i>Physical Review B</i> , 2020, 101, .	3.2	45
3	First-principles theoretical studies of half-metallic ferromagnetism in CrTe. <i>Physical Review B</i> , 2010, 82, .	3.2	43
4	Type-I and type-II nodal lines coexistence in the antiferromagnetic monolayer CrAs_2 . <i>Physical Review B</i> , 2018, 98, .	3.2	37
5	First-principles study of half-metallic ferromagnetism and structural stability of $\text{Cr}_x\text{Zn}_{1-x}\text{Te}$. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 6791-6796.	2.8	36
6	Structural stability and half-metallicity of the zinc-blende phase of Al_2Te . Density-functional study. <i>Physical Review B</i> , 2009, 80, .	3.2	31
7	Phonon and electron transport in Janus monolayers based on InSe. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 435501.	1.8	27
8	Half-metallic <i>p</i> -electron ferromagnetism in alkaline earth doped AlAs: A first-principles calculation. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	23
9	Structure and magnetic properties of the perovskite $\text{YCo}_0.5\text{Fe}_0.5\text{O}_3$. <i>AIP Advances</i> , 2014, 4, .	1.3	22
10	Giant magnetic anisotropy of rare-earth adatoms and dimers adsorbed by graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13245-13251.	2.8	22
11	Two dimensional superconductors in electrides. <i>New Journal of Physics</i> , 2017, 19, 123020.	2.9	22
12	Half-metallicity and magnetism of GeTe doped with transition metals V, Cr, and Mn: A theoretical study from the viewpoint of application in spintronics. <i>Journal of Applied Physics</i> , 2012, 112, 053902.	2.5	20
13	Origin of ferromagnetism in Cu-doped SnO_2 : A first-principles study. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	20
14	Two dimensional ferromagnetic semiconductor: monolayer CrGe_3 . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 015701.	1.8	20
15	Large thermoelectric power factor of high-mobility transition-metal dichalcogenides with Te phase. <i>Physical Review Research</i> , 2020, 2, .	1.6	18
16	Thickness-dependent anisotropic transport of phonons and charges in few-layered PdSe_2 . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18869-18884.	2.8	17
17	Strong phonon anharmonicity and low thermal conductivity of monolayer tin oxides driven by lone-pair electrons. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	16
18	Density-functional study on the structural and magnetic properties of N-doped graphene oxide. <i>Carbon</i> , 2016, 102, 39-50.	10.3	15

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37	Magnetism, half-metallicity and electrical transport properties of V- and Cr-doped semiconductor SnTe: A theoretical study. Journal of Applied Physics, 2013, 114, 213704.	2.5	8
38	Density functional study on the ferromagnetism of alkaline earth doped InN. Journal of Alloys and Compounds, 2015, 625, 101-106.	5.5	8
39	Strain-tunable magnetic order and electronic structure in 2D CrAsS ₄ . Journal of Magnetism and Magnetic Materials, 2020, 497, 165941.	2.3	8
40	First-principles study of bcc Fe-Cr-Si binary and ternary random alloys from special quasi-random structure. Physica B: Condensed Matter, 2020, 586, 412085.	2.7	8
41	Superconducting LaP_2H_2 with graphenelike phosphorus layers. Physical Review B, 2022, 105, .	3.2	8
42	Possible ferromagnetism in Cd-doped TiO ₂ : A first-principles study. Physica B: Condensed Matter, 2013, 422, 28-32.	2.7	7
43	Half-metallicity, magnetism and electrical resistivity of Sn _{1-x} Mn _x Te alloys in rock salt and zinc blende structures. Journal of Magnetism and Magnetic Materials, 2015, 375, 15-25.	2.3	7
44	Structural, magnetic and topological properties in rare-earth-adsorbed silicene system. Journal of Magnetism and Magnetic Materials, 2019, 492, 165606.	2.3	7
45	Structure and physical properties of quaternary Heusler alloy NiMnCuSb. Journal of Magnetism and Magnetic Materials, 2017, 444, 338-343.	2.3	6
46	Prediction of quantum anomalous Hall effect and giant magnetic anisotropy in graphene with adsorbed Ir-based dimers. Journal of Applied Physics, 2019, 125, 193903.	2.5	6
47	Spin-orbital coupling and magnetic properties of Ir-based double perovskites with different 5d (n = 3,) Tj ETQq1 1 0,784314 rgBT /Overlo	2.1	6
48	Modulation of heat transport in two-dimensional group-III chalcogenides. Journal Physics D: Applied Physics, 2020, 53, 185102.	2.8	6
49	Diverse magnetism in stable and metastable structures of CrTe. Frontiers of Physics, 2021, 16, 1.	5.0	6
50	Electric dipole and quadrupole properties of the Cd atom for atomic-clock applications. Physical Review A, 2021, 103, .	2.5	6
51	Robust intrinsic half-metallic ferromagnetism in stable 2D single-layer MnAsS ₄ . Journal of Physics Condensed Matter, 2020, 32, 385803.	1.8	6
52	Ferromagnetism of Cd doped SnO ₂ : A first-principles study. Journal of Applied Physics, 2012, 112, 043705.	2.5	5
53	Phase competition mediated by composition and pressure in Zr ₂ Cu _{1-x} Ni system. Journal of Alloys and Compounds, 2015, 618, 73-77.	5.5	5
54	Electronic, magnetic, and optical properties of Mn-doped GaSb: A first-principles study. Physica B: Condensed Matter, 2019, 572, 225-229.	2.7	5

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55	Optomechanical properties of a degenerate nonperiodic cavity chain. <i>Frontiers of Physics</i> , 2019, 14, 1.	5.0	5
56	Hexagonal MASnI ₃ exhibiting strong absorption of ultraviolet photons. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	5
57	Pressure-stabilized graphene-like P layer in superconducting LaP ₂ . <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6469-6475.	2.8	5
58	Half-metallicity and ferromagnetism of TcX (X=C, Si and Ge) in zinc blende structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 327, 177-184.	2.3	4
59	Different topological insulating behavior in GaS and GaS-II under uniaxial tension. <i>Physical Review B</i> , 2013, 88, .	3.2	4
60	Void Closure Behavior in Large Diameter Steel Rod during H-V Rolling Process. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 287-294.	2.8	4
61	Electronic structure and magnetism of Ge(Sn)TMXTe (TM = V, Cr, Mn): A first principles study. <i>AIP Advances</i> , 2016, 6, 125005.	1.3	4
62	4-d magnetism: Electronic structure and magnetism of some Mo-based alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 423, 12-19.	2.3	4
63	Effects of layer stacking and strain on electronic transport in two-dimensional tin monoxide*. <i>Chinese Physics B</i> , 2019, 28, 077104.	1.4	4
64	Large Magnetic Anisotropy Energy and Robust Half-Metallic Ferromagnetism in 2D MnXSe (X = As, Sb). <i>Annalen Der Physik</i> , 2020, 532, 2000365.	2.4	4
65	Strain tunable intrinsic ferromagnetic in 2D square CrBr_2 . <i>AIP Advances</i> , 2021, 11, 115220.	1.3	4
66	Magnetic semiconductors in ternary CdMnTe compounds. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 973-979.	1.5	3
67	Embedded clusters and magnetism in Cr-doped AlAs: A first-principles study. <i>Applied Physics Letters</i> , 2010, 97, 262507.	3.3	3
68	Density-functional study on the ferromagnetism of (Mn,Na)-codoped ZnO. <i>Physica B: Condensed Matter</i> , 2014, 451, 43-47.	2.7	3
69	Realizing both giant magnetic anisotropy and quantum anomalous Hall effect in graphene with adsorbed Te-Co dimer. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 045802.	1.8	3
70	Theoretical considerations of superconducting HfBH_2 and HfB_2H under high pressure. <i>Journal of Applied Physics</i> , 2021, 130, 153904.	2.5	3
71	Theoretical study of the structure and magnetism of $\text{Ga}_x\text{V}_x\text{Sb}$ compounds for spintronic applications. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	2
72	Electronic and magnetic properties of single-layer and double-layer VX_2 (X = Cl, Br) under biaxial stress*. <i>Chinese Physics B</i> , 2021, 30, 107305.	1.4	2

#	ARTICLE	IF	CITATIONS
73	A New Type of Large-gap Quantum Spin Hall Insulator Material $ZrSe_5$. Physica Status Solidi (B): Basic Research, 2021, 258, 2100256.	1.5	2
74	First-principles calculations of magnetic and optical properties of $Ga_{1-x}Cr_xSb$ ($x = 0.25, 0.50, 0.75$). Wuli Xuebao/Acta Physica Sinica, 2019, 68, 176301.	0.5	2
75	Superconducting ScP_4 with a novel phosphorus framework. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	2
76	Quantum spin Hall effect in two-dimensional transition-metal chalcogenides MX_5 ($M = Zr, Hf$ and $X = S, Se$) Tj ETQq0 0 0 rgBT /Overlock	2.7	2
77	Monte Carlo study of the magnetic properties of spin liquid compound $NiGa_2S_4$. Chinese Physics B, 2014, 23, 057501.	1.4	1
78	High-performance electronic transport in the plane of 3D type-II Dirac semimetals. Journal of Physics Condensed Matter, 2017, 29, 415701.	1.8	1
79	Giant magnetic anisotropy and robust quantum anomalous Hall effect in boron-doped graphene with Re-adsorption. Journal of Physics Condensed Matter, 2018, 30, 145001.	1.8	1
80	Dynamical Properties of a Diluted Dipolar-Interaction Heisenberg Spin Glass. Communications in Theoretical Physics, 2014, 61, 257-262.	2.5	0
81	Interfacial effect on the reverse of magnetization and ultrafast demagnetization in Co/Ni bilayers with perpendicular magnetic anisotropy. Chinese Physics B, 2018, 27, 057501.	1.4	0
82	Robust large-gap topological insulator phase in transition-metal chalcogenide $ZrTe_4$ Se. New Journal of Physics, 2021, 23, 093046.	2.9	0