

Yong Liu

List of Publications by Year in descending order

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82

papers

1,808

citations

516710

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289244

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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, .		
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 $\text{Al}_{32}\text{Mn}_{31}$. Density-functional study. <i>Physical Review B</i> , 2009, 80, .		
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 p -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 CrGeS_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 $\text{Ti}_{16}\text{Mn}_{18}$ phase. <i>Physical Review Research</i> , 2020, 2, .		
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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19	Small onion-like BN leads to ultrafine-twinned cubic BN. <i>Science China Materials</i> , 2019, 62, 1169-1176.	6.3	15	
20	Layer-Dependent Magnetism in Two-Dimensional Transition-Metal Chalcogenides M _n T _n (M = V, Cr, and Mn; T = S, Se, and Te; and n = 2, 3,) Tj ETQq000rgBT /Overlaid	ETQq000rgBT		
21	First-principles study on the half-metallic ferromagnetism of zinc-blende structural ScX (X= C, Si, Ge,) Tj ETQq110.784314rgBT	ETQq110.784314rgBT	1.5	13
22	Theoretical studies of elastic and thermodynamic properties of cubic B ₂₀ CoSi. <i>Physica B: Condensed Matter</i> , 2012, 407, 4700-4705.	2.7	13	
23	Phonon-limited electronic transport of two-dimensional ultrawide bandgap material h-BeO. <i>Applied Physics Letters</i> , 2020, 117, 123101.	3.3	13	
24	Direct and indirect optical absorptions of cubic BAs and BSb. <i>Optics Express</i> , 2020, 28, 238.	3.4	13	
25	Thickness-dependent thermoelectric transporting properties of few-layered SnSe. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162542.	5.5	12	
26	Density-functional study on the robust ferromagnetism in rare-earth element Yb-doped SnO ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 360, 165-168.	2.3	11	
27	Protecting quantum anomalous Hall state from thermal fluctuation via the giant magnetic anisotropy of Os-based dimers. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28169-28175.	2.8	11	
28	First-principles study on the anisotropic transport of electrons and phonons in monolayer and bulk GaTe: a comparative study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15270-15280.	2.8	11	
29	Strain-induced Magnetism in MSi ₂ N ₄ (M = V, Cr): A First-principles Study. <i>Annalen Der Physik</i> , 2021, 533, 2100273.	2.4	10	
30	First principles study of 2D half-metallic ferromagnetism in Janus Mn ₂ X _b Sb (X = As, P) monolayers. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	10	
31	Superconductivity in the two-dimensional nonbenzenoid biphenylene sheet with Dirac cone. <i>2D Materials</i> , 2022, 9, 015035.	4.4	10	
32	Bonding-unsaturation-dependent superconductivity in P-rich sulfides. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	3.9	10	
33	Simultaneous step meandering and bunching instabilities controlled by Ehrlich-Schwoebel barrier and elastic interaction. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	9	
34	Density-functional study on the ferromagnetism of Mn-doped SnO ₂ . <i>Journal of Applied Physics</i> , 2013, 114, 133707.	2.5	9	
35	Magnetic diversity in stable and metastable structures of CrAs. <i>Physical Review B</i> , 2017, 96, .	3.2	9	
36	Temperature-regulated protein adsorption on a PNIPAm layer. <i>Soft Matter</i> , 2018, 14, 6521-6529.	2.7	9	

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37	Magnetism, half-metallicity and electrical transport properties of V- and Cr-doped semiconductor SnTe: A theoretical study. <i>Journal of Applied Physics</i> , 2013, 114, 213704.	2.5	8
38	Density functional study on the ferromagnetism of alkaline earth doped InN. <i>Journal of Alloys and Compounds</i> , 2015, 625, 101-106.	5.5	8
39	Strain-tunable magnetic order and electronic structure in 2D CrAsS4. <i>Journal of Magnetism and Magnetic Materials</i> , 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. <i>Physica B: Condensed Matter</i> , 2020, 586, 412085.	2.7	8
41	Superconducting $\text{LaP}_{3.2}$ with graphenelike phosphorus layers. <i>Physical Review B</i> , 2022, 105, .	3.2	8
42	Possible ferromagnetism in Cd-doped TiO2: A first-principles study. <i>Physica B: Condensed Matter</i> , 2013, 422, 28-32.	2.7	7
43	Half-metallicity, magnetism and electrical resistivity of $\text{Sn}_{1-x}\text{MnxTe}$ alloys in rock salt and zinc blende structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 375, 15-25.	2.3	7
44	Structural, magnetic and topological properties in rare-earth-adsorbed silicene system. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 492, 165606.	2.3	7
45	Structure and physical properties of quaternary Heusler alloy NiMnCuSb. <i>Journal of Magnetism and Magnetic Materials</i> , 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. <i>Journal of Applied Physics</i> , 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 _{2.1} 784314 rgBT /Overlaid	2.1	6
48	Modulation of heat transport in two-dimensional group-III chalcogenides. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 185102.	2.8	6
49	Diverse magnetism in stable and metastable structures of CrTe. <i>Frontiers of Physics</i> , 2021, 16, 1.	5.0	6
50	Electric dipole and quadrupole properties of the Cd atom for atomic-clock applications. <i>Physical Review A</i> , 2021, 103, .	2.5	6
51	Robust intrinsic half-metallic ferromagnetism in stable 2D single-layer MnAsS ₄ . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 385803.	1.8	6
52	Ferromagnetism of Cd doped SnO2: A first-principles study. <i>Journal of Applied Physics</i> , 2012, 112, 043705.	2.5	5
53	Phase competition mediated by composition and pressure in Zr ₂ Cu _{1-x} Ni system. <i>Journal of Alloys and Compounds</i> , 2015, 618, 73-77.	5.5	5
54	Electronic, magnetic, and optical properties of Mn-doped GaSb: A first-principles study. <i>Physica B: Condensed Matter</i> , 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 $\text{Ge}_{\text{Sn}}\text{TMXTe}_1\tilde{\text{X}}$ (TM = V, Cr, Mn): A first principles study. <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 _{1~X} (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 ₄ . <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 ₂ H under high pressure. <i>Journal of Applied Physics</i> , 2021, 130, 153904.	2.5	3	
71	Theoretical study of the structure and magnetism of Ga _{1~x} V _x 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	

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73	A New Type of Large-gap Quantum Spin Hall Insulator Material ZrSe ₅ . <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2100256.		1.5	2
74	First-principles calculations of magnetic and optical properties of Ga _{1-x} Cr _x Sb (x = 0.25, 0.50, 0.75). <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019, 68, 176301.		0.5	2
75	Superconducting ScP ₄ with a novel phosphorus framework. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.		2.3	2
76	Quantum spin Hall effect in two-dimensional transition-metal chalcogenides MX ₅ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block" id="d1e813" altimg="si33.svg"><mml:msub><mml:mrow>M</mml:mrow><mml:mrow>X</mml:mrow></mml:msub></mml:math> (M = Zr, Hf and X = S, Se,) T _j ETQq0 0 0 rgBT /Overlock		2.7	2
77	Monte Carlo study of the magnetic properties of spin liquid compound NiGa ₂ S ₄ . <i>Chinese Physics B</i> , 2014, 23, 057501.		1.4	1
78	High-performance electronic transport in the plane of 3D type-II Dirac semimetals. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 415701.		1.8	1
79	Giant magnetic anisotropy and robust quantum anomalous Hall effect in boron-doped graphene with Re-adsorption. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 145001.		1.8	1
80	Dynamical Properties of a Diluted Dipolar-Interaction Heisenberg Spin Glass. <i>Communications in Theoretical Physics</i> , 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. <i>Chinese Physics B</i> , 2018, 27, 057501.		1.4	0
82	Robust large-gap topological insulator phase in transition-metal chalcogenide ZrTe ₄ Se. <i>New Journal of Physics</i> , 2021, 23, 093046.		2.9	0