

Wenjian Lu

List of Publications by Year in descending order

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94
papers

3,614
citations

126708

33
h-index

143772

57
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95
all docs

95
docs citations

95
times ranked

5103
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced thermoelectric performance of phosphorene by strain-induced band convergence. Physical Review B, 2014, 90, .	1.1	271
2	Structure and control of charge density waves in two-dimensional 1T-TaS ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15054-15059.	3.3	205
3	Strain-induced enhancement in the thermoelectric performance of a ZrS ₂ monolayer. Journal of Materials Chemistry C, 2016, 4, 4538-4545.	2.7	196
4	Superconductivity induced by Se-doping in layered charge-density-wave system 1T-TaS ₂ xSe _x . Applied Physics Letters, 2013, 102, .	1.5	118
5	Magnetocaloric effect and Griffiths-like phase in La _{0.67} Sr _{0.33} MnO ₃ nanoparticles. Journal of Applied Physics, 2008, 104, .	1.1	111
6	Strain-controlled switch between ferromagnetism and antiferromagnetism in $T\hat{a}S_2$	1.1	111
7	Real-Space Coexistence of the Melted Mott State and Superconductivity in Fe-Substituted $T\hat{a}S_2$	2.9	107
8	Enhanced superconductivity by strain and carrier-doping in borophene: A first principles prediction. Applied Physics Letters, 2016, 109, .	1.5	105
9	Tricritical behavior of the two-dimensional intrinsically ferromagnetic semiconductor $CrGeTe_3$. Physical Review B, 2017, 95, .	1.1	103
10	Extremely large magnetoresistance in the type-II Weyl semimetal $MoTe_2$. Physical Review B, 2016, 94, .	1.1	100
11	Effects of hydrostatic pressure on spin-lattice coupling in two-dimensional ferromagnetic $Cr_2Ge_2Te_6$. Applied Physics Letters, 2018, 112, .	1.5	94
12	Electron-doped phosphorene: A potential monolayer superconductor. Europhysics Letters, 2014, 108, 67004.	0.7	91
13	Atomic lattice disorder in charge-density-wave phases of exfoliated dichalcogenides (1T-TaS) ₂ . Physical Review B, 2017, 95, 11420-11424.	3.3	86
14	Nature of charge density waves and superconductivity in $T\hat{a}S_2$. Physical Review B, 2016, 94, .	1.1	87
15	Fe-doping-induced superconductivity in the charge-density-wave system 1T-TaS ₂ . Europhysics Letters, 2012, 97, 67005.	0.7	75
16	Superconductivity and bandwidth-controlled Mott metal-insulator transition in $T\hat{a}S_2$. Physical Review B, 2016, 94, .	1.1	69
17	Magnetic properties and magnetocaloric effect of La _{0.8} Ca _{0.2} MnO ₃ nanoparticles tuned by particle size. Journal of Applied Physics, 2012, 111, .	1.1	68
18	Manipulation of type-I and type-II Dirac points in $PdTe_2$ superconductor by external pressure. Physical Review B, 2017, 96, .	1.1	62

#	ARTICLE	IF	CITATIONS
19	Planar Hall effect in the type-II Weyl semimetal Pd_2Te . Physical Review B, 2018, 98, .	1.1	54
20	Spin-glass behavior and zero-field-cooled exchange bias in a Cr-based antiperovskite compound PdNCr_3 . Journal of Materials Chemistry C, 2015, 3, 5683-5696.	2.7	53
21	Td-MoTe ₂ : A possible topological superconductor. Applied Physics Letters, 2016, 109, .	1.5	51
22	Manipulating charge density wave order in monolayer TaTe_2 by strain and charge doping: A first-principles investigation. Physical Review B, 2017, 96, .	1.1	49
23	Atomistic origin of an ordered superstructure induced superconductivity in layered chalcogenides. Nature Communications, 2015, 6, 6091.	5.8	47
24	Critical behavior of two-dimensional intrinsically ferromagnetic semiconductor CrI_3 . Applied Physics Letters, 2018, 112, .	1.5	47
25	Tuning the electronic and magnetic properties of borophene by 3d transition-metal atom adsorption. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3928-3931.	0.9	46
26	Manipulating charge density waves in TaTe_2 charge-carrier doping: A first-principles investigation. Physical Review B, 2016, 94, .	1.1	45
27	Direct observation of an optically induced charge density wave transition in TaTe_2 . Physical Review B, 2015, 92, .	1.1	44
28	Distinct surface and bulk charge density waves in ultrathin TaTe_2 . Physical Review B, 2016, 94, .	1.1	41
29	Size-induced changes of structural, magnetic and magnetocaloric properties of $\text{La}_{0.7}\text{Ca}_{0.2}\text{Ba}_{0.1}\text{MnO}_3$. Physica B: Condensed Matter, 2010, 405, 2733-2741.	1.3	40
30	Strain- and carrier-tunable magnetic properties of a two-dimensional intrinsically ferromagnetic semiconductor: CoBr_2 monolayer. Physical Review B, 2019, 99, .	1.1	39
31	Pressure-induced bulk superconductivity in a layered transition-metal dichalcogenide TaTe_2 . Physical Review B, 2017, 95, .	1.1	38
32	Design strategy for p-type transparent conducting oxides. Journal of Applied Physics, 2020, 128, .	1.1	34
33	Temperature-Induced Lifshitz Transition and Possible Excitonic Instability in ZrSiSe . Physical Review Letters, 2020, 124, 236601.	2.9	34
34	Origin of the multiple charge density wave order in TaTe_2 . Physical Review B, 2020, 101, .	1.1	33
35	Charge density wave and pressure-dependent superconductivity in the kagome metal CsV_3Sb_5 : A first-principles study. Physical Review B, 2022, 105, .	1.3	33
36	Low-field magnetoresistance in $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3/\text{ZrO}_2$ composite system. Materials Letters, 2006, 60, 3207-3211.	1.3	31

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37	Achieving Macroscopic $V_4C_3T_x$ MXene by Selectively Etching Al from V_4AlC_3 Single Crystals. <i>Inorganic Chemistry</i> , 2020, 59, 3239-3248.	1.9	30
38	Strong Electron-Phonon Coupling in the Excitonic Insulator Ta_2NiSe_5 . <i>Inorganic Chemistry</i> , 2019, 58, 9036-9042.	1.9	29
39	Anisotropic magnetic entropy change in the hard ferromagnetic semiconductor V_4C_3I . <i>Physical Review B</i> , 2019, 100, .	1.1	29
40	Structural phase transition and superconductivity hierarchy in 1T-TaS ₂ under pressure up to 100 GPa. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	29
41	Colossal and reversible barocaloric effect in liquid-solid-transition materials n-alkanes. <i>Nature Communications</i> , 2022, 13, 596.	5.8	29
42	Dynamic diffraction effects and coherent breathing oscillations in ultrafast electron diffraction in layered 1T-TaSeTe. <i>Structural Dynamics</i> , 2017, 4, 044012.	0.9	28
43	Origin of the turn-on phenomenon in eT_2d_2 . <i>Physical Review B</i> , 2017, 96, .	1.1	27
44	Room-temperature angular-dependent topological Hall effect in chiral antiferromagnetic Weyl semimetal Mn ₃ Sn. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	25
45	Roles of the Narrow Electronic Band near the Fermi Level in T_2O_2 -Related Layered Materials. <i>Physical Review Letters</i> , 2021, 126, 256402.	2.9	24
46	Magnetic and transport properties of the Co-doped manganite $La_{0.7}Sr_{0.3}Mn_{1-x}Co_xO_3$ (0 ≤ x ≤ 0.5). <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 1719-1727.	0.7	22
47	Superconductivity in $CaSn_3$ single crystals with a $AuCu_3$ -type structure. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11432-11438.	2.7	22
48	Origin of the structural phase transition in single-crystal TaT_2 . <i>Physical Review B</i> , 2018, 98, .	1.1	22
49	Photocurrent Imaging of Multi-Memristive Charge Density Wave Switching in Two-Dimensional 1T-TaS ₂ . <i>Nano Letters</i> , 2020, 20, 7200-7206.	4.5	22
50	Superconductivity in $FeTe_{1.05}O$ single crystals. <i>Physical Review B</i> , 2013, 88, .	1.1	21
51	Origin of the extremely large magnetoresistance in topological semimetal PtS_4 . <i>Physical Review B</i> , 2018, 97, .	1.1	21
52	Universal phase diagram of superconductivity and charge density wave versus high hydrostatic pressure in pure and Se-doped 1T-TaS ₂ . <i>Physical Review B</i> , 2018, 97, .	1.1	21
53	Spin-orbit coupling enhanced superconductivity in Bi-rich compounds ABi_3 (A = Sr and Ba). <i>Scientific Reports</i> , 2016, 6, 21484.	1.6	20
54	Manipulating superconductivity of 1T-TiTe ₂ by high pressure. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4167-4173.	2.7	19

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55	Chiral charge density waves induced by Ti-doping in $1T\text{-TaS}_2$. Applied Physics Letters, 2021, 118, .	1.5	19
56	Suppression of superconductivity in layered $\text{Bi}_4\text{O}_4\text{S}_3$ by Ag doping. European Physical Journal B, 2012, 85, 1.	0.6	18
57	Critical behavior in the itinerant ferromagnet AsNC with tetragonal-antiperovskite structure. Physical Review B, 2018, 98, .	1.1	18
58	Observation of the large orbital entropy in Zn-doped orbital-spin-coupled system MnV_2O_4 . Applied Physics Letters, 2010, 96, .	1.5	17
59	Vertical $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ nanorods tailored by high magnetic field assisted pulsed laser deposition. Scientific Reports, 2016, 6, 19483.	1.6	17
60	Unveiling the mechanisms of metal-insulator transitions in V_2O_3 : The role of trigonal distortion. Physical Review B, 2021, 103, .	1.1	17
61	Coexistence of superconductivity and commensurate charge density wave in $4d\text{-Hf-TaS}_2$ single crystals. Journal of Applied Physics, 2014, 115, .	1.1	16
62	Magnetic anisotropy and anomalous Hall effect in monoclinic single crystal Cr_5Te_8 . Physical Review B, 2020, 102, .	1.5	16
63	Superconducting and Topological Properties in Centrosymmetric PbTaS_2 Single Crystals. Journal of Physical Chemistry C, 2020, 124, 6349-6355.	1.5	16
64	CuSe -based layered compound Bi_2YO_4 as a field-induced topological Hall effect in antiferromagnetic axion insulator candidate. Physical Review Research, 2022, 4, .	1.5	15
65	Structural, electrical, and thermoelectric properties of distorted $1T\text{-Ta}_{1-x}\text{Nb}_x\text{Te}_2$ single crystals. Europhysics Letters, 2015, 109, 17003.	0.7	14
66	Two-dimensional charge order stabilized in clean polytype heterostructures. Nature Communications, 2022, 13, 413.	5.8	14
67	Resistivity plateau and large magnetoresistance in the charge density wave system TaTe_4 . Applied Physics Letters, 2017, 110, .	1.5	13
68	Inducing and tuning Kondo screening in a narrow-electronic-band system. Nature Communications, 2022, 13, 2156.	5.8	13
69	Prediction of Superconductivity in 3d Transition-Metal Based Antiperovskites via Magnetic Phase Diagram. Journal of the Physical Society of Japan, 2014, 83, 054704.	0.7	11
70	Thickness and Stacking Sequence Determination of Exfoliated Dichalcogenides ($1T\text{-TaS}_2$, TjETQq1) by XPS and Raman Microanalysis, 2018, 24, 387-395.	0.2	11
71	Role of nitrogen in AlN_xMn_3 : A density functional theory study. Journal of Applied Physics, 2013, 113, 023905.	1.1	10
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73	Exchange bias induced after zero-field cooling in antiperovskite compounds $\text{Ga}_{1-x}\text{NMn}_{3+x}$. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 582-588.	0.7	10
74	Infrared nanoimaging of the metal-insulator transition in the charge-density-wave van der Waals material $1\text{T}\ddot{\text{a}}\text{TaS}_2$. <i>Physical Review B</i> , 2018, 97, .	1.1	9
75	Large Positive Thermal Expansion and Small Band Gap in Double- ReO_3 -Type Compound NaSbF_6 . <i>Inorganic Chemistry</i> , 2017, 56, 4990-4995.	1.9	8
76	Origin of the large magnetoresistance in the candidate chiral superconductor H_xS_2 . <i>Physical Review B</i> , 2020, 102, .	1.1	8
77	Edge-controlled half-metallic ferromagnetism and direct-gap semiconductivity in ZrS_2 nanoribbons. <i>RSC Advances</i> , 2017, 7, 33408-33412.	1.7	7
78	Mobility spectrum analytical approach for the type-II Weyl semimetal Td-MoTe_2 . <i>Applied Physics Letters</i> , 2018, 112, .	1.5	6
79	Complete Strain Mapping of Nanosheets of Tantalum Disulfide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43173-43179.	4.0	6
80	Colossal 3D Electrical Anisotropy of MoAlB Single Crystal. <i>Small</i> , 2022, 18, e2104460.	5.2	6
81	Equal-spin triplet p -wave pairing in Nb/Ni proximity effect bilayers. <i>Physical Review B</i> , 2010, 81, .	1.1	5
82	First-principles prediction of layered antiperovskite superconductors A_2CNi_4 (A = Al, Ga, and Sn). <i>AIP Advances</i> , 2012, 2, .	0.6	5
83	Inversion symmetry breaking induced triply degenerate points in orderly arranged PtSeTe family materials. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 245502.	0.7	5
84	Charge-density-wave tuning in monolayer 1H-TaSe_2 by biaxial strain and charge doping. <i>Europhysics Letters</i> , 2019, 127, 37001.	0.7	5
85	Studies of electrical and thermal transport properties of the electron-doped manganite $\text{Sr}_{0.9}\text{Ce}_{0.1}\text{MnO}_3$. <i>Physica B: Condensed Matter</i> , 2005, 367, 243-248.	1.3	4
86	Pressure controllable phase transition in MoTe_2 by the interlayer band occupancy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 126016.	0.9	4
87	Temperature-dependent electrical transport mechanism in amorphous $\text{Ge}_2\text{Sb}_2\text{Te}_5$ films. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1855-1860.	0.7	3
88	Modulation of electronic state in copper-intercalated 1T-TaS_2 . <i>Nano Research</i> , 2022, 15, 4327-4333.	5.8	3
89	Observation and Manipulation of a Phase Separated State in a Charge Density Wave Material. <i>Nano Letters</i> , 2022, 22, 1929-1936.	4.5	3
90	Long-Range Spin-Triplet Superconductivity Induced by Magnetic Field in d Wave Superconductor/Ferromagnet Hybrid System. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 1741-1746.	0.8	2

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91	Sizeable bandgap modulation in Y ₂ Hf ₂ O ₇ pyrochlore oxide thin films through B-site substitution. Applied Physics Letters, 2021, 118, 141902.	1.5	2
92	Origin and strain tuning of charge density wave in LaTe ₃ . Physica B: Condensed Matter, 2022, 639, 413988.	1.3	2
93	Two-dimensional charge order stabilized in clean polytype heterostructures. Microscopy and Microanalysis, 2021, 27, 896-898.	0.2	1
94	Mapping Periodic Lattice Distortions in Exfoliated Dichalcogenides with Atomic Resolution cryo-STEM. Microscopy and Microanalysis, 2016, 22, 1550-1551.	0.2	0