

Wenjian Lu

List of Publications by Year in descending order

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94
papers

3,614
citations

126708

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all docs

95
docs citations

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times ranked

5103
citing authors

#	ARTICLE	IF	CITATIONS
1	Colossal 3D Electrical Anisotropy of MoAlB Single Crystal. <i>Small</i> , 2022, 18, e2104460.	5.2	6
2	Modulation of electronic state in copper-intercalated 1T-TaS ₂ . <i>Nano Research</i> , 2022, 15, 4327-4333.	5.8	3
3	Charge density wave and pressure-dependent superconductivity in the kagome metal CsV_3Sb_5 : A first-principles study. <i>Physical Review B</i> , 2022, 105, .	1.3	13
4	Two-dimensional charge order stabilized in clean polytype heterostructures. <i>Nature Communications</i> , 2022, 13, 413.	5.8	14
5	Colossal and reversible barocaloric effect in liquid-solid-transition materials n-alkanes. <i>Nature Communications</i> , 2022, 13, 596.	5.8	29
6	Field-induced topological Hall effect in antiferromagnetic axion insulator candidate EuIn_2As_2 . <i>Physical Review Research</i> , 2022, 4, .	1.1	14
7	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
8	Inducing and tuning Kondo screening in a narrow-electronic-band system. <i>Nature Communications</i> , 2022, 13, 2156.	5.8	13
9	Origin and strain tuning of charge density wave in LaTe ₃ . <i>Physica B: Condensed Matter</i> , 2022, 639, 413988.	1.3	2
10	Unveiling the mechanisms of metal-insulator transitions in VO_2 : The role of trigonal distortion. <i>Physical Review B</i> , 2021, 103, .	1.1	17
11	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
12	Sizeable bandgap modulation in Y ₂ Hf ₂ O ₇ pyrochlore oxide thin films through B-site substitution. <i>Applied Physics Letters</i> , 2021, 118, 141902.	1.5	2
13	Chiral charge density waves induced by Ti-doping in 1T-TaS ₂ . <i>Applied Physics Letters</i> , 2021, 118, .	1.5	19
14	Roles of the Narrow Electronic Band near the Fermi Level in 1T-TaS_2 -Related Layered Materials. <i>Physical Review Letters</i> , 2021, 126, 256402.	2.9	24
15	Two-dimensional charge order stabilized in clean polytype heterostructures. <i>Microscopy and Microanalysis</i> , 2021, 27, 896-898.	0.2	1
16	Design strategy for p-type transparent conducting oxides. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	34
17	Magnetic anisotropy and anomalous Hall effect in monoclinic single crystal Cr_5C_4 . <i>Physical Review B</i> , 2020, 102, .	1.1	10
18	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

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19	Complete Strain Mapping of Nanosheets of Tantalum Disulfide. ACS Applied Materials & Interfaces, 2020, 12, 43173-43179.	4.0	6
20	Origin of the large magnetoresistance in the candidate chiral superconductor H_xS_2 . Physical Review B, 2020, 102, .	1.1	8
21	Origin of the multiple charge density wave order in Tq . Physical Review B, 2020, 101, .	0.8	1
22	Temperature-Induced Lifshitz Transition and Possible Excitonic Instability in ZrSiSe. Physical Review Letters, 2020, 124, 236601.	2.9	34
23	Superconducting and Topological Properties in Centrosymmetric $PbTaS_2$ Single Crystals. Journal of Physical Chemistry C, 2020, 124, 6349-6355.	1.5	16
24	Achieving Macroscopic V_4C_3Tx MXene by Selectively Etching Al from V_4AlC_3 Single Crystals. Inorganic Chemistry, 2020, 59, 3239-3248.	1.9	30
25	Strong Electron-Phonon Coupling in the Excitonic Insulator Ta_2NiSe_5 . Inorganic Chemistry, 2019, 58, 9036-9042.	1.9	29
26	Charge-density-wave tuning in monolayer $1H-TaSe_2$ by biaxial strain and charge doping. Europhysics Letters, 2019, 127, 37001.	0.7	5
27	Room-temperature angular-dependent topological Hall effect in chiral antiferromagnetic Weyl semimetal Mn_3Sn . Applied Physics Letters, 2019, 115, .	1.5	25
28	Anisotropic magnetic entropy change in the hard ferromagnetic semiconductor V_3I . Physical Review B, 2019, 100, .	1.1	29
29	Pressure controllable phase transition in $MoTe_2$ by the interlayer band occupancy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 126016.	0.9	4
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	Effects of hydrostatic pressure on spin-lattice coupling in two-dimensional ferromagnetic $Cr_2Ge_2Te_6$. Applied Physics Letters, 2018, 112, .	1.5	94
32	Mobility spectrum analytical approach for the type-II Weyl semimetal $Td-MoTe_2$. Applied Physics Letters, 2018, 112, .	1.5	6
33	Critical behavior of two-dimensional intrinsically ferromagnetic semiconductor CrI_3 . Applied Physics Letters, 2018, 112, .	1.5	47
34	Infrared nanoimaging of the metal-insulator transition in the charge-density-wave van der Waals material $1T\bar{a}TaS_2$. Physical Review B, 2018, 97, .	1.1	9
35	Inversion symmetry breaking induced triply degenerate points in orderly arranged $PtSeTe$ family materials. Journal of Physics Condensed Matter, 2018, 30, 245502.	0.7	5
36	Origin of the structural phase transition in single-crystal TaT_2e . Physical Review B, 2018, 98, .	1.1	22

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37	Thickness and Stacking Sequence Determination of Exfoliated Dichalcogenides (1T-TaS ₂), Tj ETQq1 1 0.784314 rgBT /Over Microanalysis, 2018, 24, 387-395.	0.2	11
38	Origin of the extremely large magnetoresistance in topological semimetal PtS_4 . Physical Review B, 2018, 97, .	1.1	21
39	Universal phase diagram of superconductivity and charge density wave versus high hydrostatic pressure in pure and Se-doped 1T-TaS ₂ . Physical Review B, 2018, 97, .	1.1	21
40	Planar Hall effect in the type-II Weyl semimetal TaTe_3 . Physical Review B, 2018, 98, .	1.1	54
41	Critical behavior in the itinerant ferromagnet AsNCr_3 with tetragonal-antiperovskite structure. Physical Review B, 2018, 98, .	1.1	18
42	Manipulating superconductivity of 1T-TiTe ₂ by high pressure. Journal of Materials Chemistry C, 2017, 5, 4167-4173.	2.7	19
43	Large Positive Thermal Expansion and Small Band Gap in Double-ReO ₃ -Type Compound NaSbF ₆ . Inorganic Chemistry, 2017, 56, 4990-4995.	1.9	8
44	Dynamic diffraction effects and coherent breathing oscillations in ultrafast electron diffraction in layered 1T-TaSeTe. Structural Dynamics, 2017, 4, 044012.	0.9	28
45	Resistivity plateau and large magnetoresistance in the charge density wave system TaTe ₄ . Applied Physics Letters, 2017, 110, .	1.5	13
46	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
47	Edge-controlled half-metallic ferromagnetism and direct-gap semiconductivity in ZrS ₂ nanoribbons. RSC Advances, 2017, 7, 33408-33412.	1.7	7
48	Manipulation of type-I and type-II Dirac points in PdTe_2 superconductor by external pressure. Physical Review B, 2017, 96, .	1.1	12
49	Origin of the turn-on phenomenon in TaTe_3 . Physical Review B, 2017, 96, .	1.1	27
50	Pressure-induced bulk superconductivity in a layered transition-metal dichalcogenide TaTe_2 -tantalum selenium. Physical Review B, 2017, 95, .	1.1	34
51	Tricritical behavior of the two-dimensional intrinsically ferromagnetic semiconductor CrGeTe_3 . Physical Review B, 2017, 95, .	1.1	103
52	Mapping Periodic Lattice Distortions in Exfoliated Dichalcogenides with Atomic Resolution cryo-STEM. Microscopy and Microanalysis, 2016, 22, 1550-1551.	0.2	0
53	Temperature-dependent electrical transport mechanism in amorphous Ge ₂ Sb ₂ Te ₅ films. Physica Status Solidi (B): Basic Research, 2016, 253, 1855-1860.	0.7	3
54	Vertical La _{0.7} Ca _{0.3} MnO ₃ nanorods tailored by high magnetic field assisted pulsed laser deposition. Scientific Reports, 2016, 6, 19483.	1.6	17

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55	Extremely large magnetoresistance in the type-II Weyl semimetal MoTe_2 . Physical Review B, 2016, 94, .	1.1	10
56	Enhanced superconductivity by strain and carrier-doping in borophene: A first principles prediction. Applied Physics Letters, 2016, 109, .	1.5	105
57	Spin-orbit coupling enhanced superconductivity in Bi-rich compounds ABi_3 ($\text{A} = \text{Sr}$ and Ba). Scientific Reports, 2016, 6, 21484.	1.6	20
58	Td-MoTe ₂ : A possible topological superconductor. Applied Physics Letters, 2016, 109, .	1.5	51
59	Strain-induced enhancement in the thermoelectric performance of a ZrS_2 monolayer. Journal of Materials Chemistry C, 2016, 4, 4538-4545.	2.7	196
60	Manipulating charge density waves in TaS_2 by charge-carrier doping: A first-principles investigation. Physical Review B, 2016, 94, .	1.1	41
61	Atomic lattice disorder in charge-density-wave phases of exfoliated dichalcogenides (1T-TaS) ₂ . Physical Review B, 2016, 94, 11420-11424.	3.3	86
62	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
63	Nature of charge density waves and superconductivity in TaS_2 . Physical Review B, 2016, 94, .	1.1	41
64	Distinct surface and bulk charge density waves in ultrathin TaS_2 . Physical Review B, 2016, 94, .	1.1	41
65	Long-Range Spin-Triplet Superconductivity Induced by Magnetic Field in d Wave Superconductor/Ferromagnet Hybrid System. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1741-1746.	0.8	2
66	Strain-controlled switch between ferromagnetism and antiferromagnetism in TaS_2 . Physical Review B, 2016, 94, .	1.1	41
67	Direct observation of an optically induced charge density wave transition in TaS_2 . Physical Review B, 2015, 92, .	1.1	41
68	Exchange bias induced after zero-field cooling in antiperovskite compounds GaNMn_3 . Physica Status Solidi (B): Basic Research, 2015, 252, 582-588.	0.7	10
69	Atomistic origin of an ordered superstructure induced superconductivity in layered chalcogenides. Nature Communications, 2015, 6, 6091.	5.8	47
70	Structural, electrical, and thermoelectric properties of distorted 1T-Ta ₂ NbTe ₂ single crystals. Europhysics Letters, 2015, 109, 17003.	0.7	14
71	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
72	Superconductivity in CaSn_3 single crystals with a AuCu_3 -type structure. Journal of Materials Chemistry C, 2015, 3, 11432-11438.	2.7	22

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73	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
74	Electron-doped phosphorene: A potential monolayer superconductor. Europhysics Letters, 2014, 108, 67004.	0.7	91
75	Coexistence of superconductivity and commensurate charge density wave in 4d Hg _{1-x} Bi _x TaS ₂ single crystals. Journal of Applied Physics, 2014, 115, .	1.1	16
76	CuSe-based layered compound $YO_4Cu_2Se_2$ single crystals. Journal of Applied Physics, 2014, 115, .	1.5	15
77	Enhanced thermoelectric performance of phosphorene by strain-induced band convergence. Physical Review B, 2014, 90, .	1.1	271
78	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
79	Superconductivity induced by Se-doping in layered charge-density-wave system 1T-TaS ₂ . Applied Physics Letters, 2013, 102, .	1.5	118
80	Superconductivity in Fe _{1-x} Te _{0.05} O single crystals. Physical Review B, 2013, 88, .	1.1	21
81	Superconductivity in Fe _{1-x} Te _{0.05} O single crystals. Physical Review B, 2013, 88, .	1.1	69
82	Role of nitrogen in AlN _x Mn ₃ : A density functional theory study. Journal of Applied Physics, 2013, 113, 023905.	1.1	10
83	Real-Space Coexistence of the Melted Mott State and Superconductivity in Fe-Substituted $Bi_{1-x}Fe_xO_4$. Physical Review Letters, 2012, 109, 176403.	2.9	107
84	First-principles prediction of layered antiperovskite superconductors A ₂ CNi ₄ (A = Al, Ga, and Sn). AIP Advances, 2012, 2, .	0.6	5
85	Fe-doping-induced superconductivity in the charge-density-wave system 1T-TaS ₂ . Europhysics Letters, 2012, 97, 67005.	0.7	75
86	Suppression of superconductivity in layered Bi ₄ O ₄ S ₃ by Ag doping. European Physical Journal B, 2012, 85, 1.	0.6	18
87	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
88	Size-induced changes of structural, magnetic and magnetocaloric properties of La _{0.7} Ca _{0.2} Ba _{0.1} MnO ₃ . Physica B: Condensed Matter, 2010, 405, 2733-2741.	1.3	40
89	Observation of the large orbital entropy in Zn-doped orbital-spin-coupled system MnV ₂ O ₄ . Applied Physics Letters, 2010, 96, .	1.5	17
90	Equal-spin triplet p -wave pairing in Nb/Ni proximity effect bilayers. Physical Review B, 2010, 81, .	1.1	5

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91	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
92	Low-field magnetoresistance in La _{0.8} Sr _{0.2} MnO ₃ /ZrO ₂ composite system. Materials Letters, 2006, 60, 3207-3211.	1.3	31
93	Studies of electrical and thermal transport properties of the electron-doped manganite Sr _{0.9} Ce _{0.1} MnO ₃ . Physica B: Condensed Matter, 2005, 367, 243-248.	1.3	4
94	Magnetic and transport properties of the Co-doped manganite La _{0.7} Sr _{0.3} Mn _{1-x} Co _x O ₃ (0 ≤ x ≤ 0.5). Physica Status Solidi (B): Basic Research, 2005, 242, 1719-1727.	0.7	22