

# Nan-Lin Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8418771/publications.pdf>

Version: 2024-02-01

120  
papers

5,114  
citations

109321

35  
h-index

91884

69  
g-index

121  
all docs

121  
docs citations

121  
times ranked

4666  
citing authors

#	ARTICLE	IF	CITATIONS
1	Competing orders and spin-density-wave instability in $\text{La}(\text{O}_{1-x}\text{F}_x)\text{FeAs}$ . <i>Europhysics Letters</i> , 2008, 83, 27006.	2.0	627
2	Origin of the Spin Density Wave Instability in $\text{A}_{1-x}\text{Fe}_2$ as Revealed by Optical Spectroscopy. <i>Physical Review Letters</i> , 2008, 101, 257005.	7.8	255
3	Optical spectroscopy study of the three-dimensional Dirac semimetal $\text{ZrTe}_5$ . <i>Physical Review B</i> , 2015, 92, .	3.2	184
4	Superconductivity in the vicinity of antiferromagnetic order in CrAs. <i>Nature Communications</i> , 2014, 5, 5508.	12.8	195
5	Spin and lattice structures of single-crystalline $\text{SrFe}_2$ . <i>Physical Review B</i> , 2008, 78, .	3.2	175
6	Magnetoinfrared Spectroscopy of Landau Levels and Zeeman Splitting of Three-Dimensional Massless Dirac Fermions in $\text{ZrTe}_5$ . <i>Physical Review Letters</i> , 2015, 115, 176404.	7.8	141
7	Structural and magnetic phase transitions in $\text{NaFe}_3$ . <i>Physical Review B</i> , 2009, 80, .	3.2	135
8	Semimetal-to-Semimetal Charge Density Wave Transition in $\text{TaTiSe}_2$ . <i>Physical Review Letters</i> , 2007, 99, 027404.	7.8	127
9	Momentum dependence of superconducting gap, strong-coupling dispersion kink, and tightly bound Cooper pairs in the high-Tc $\text{(Sr,Ba)}_{1-x}(\text{K,Na})_x\text{Fe}_2\text{As}_2$ superconductors. <i>Physical Review B</i> , 2008, 78, .	3.2	122
10	Magnetic order of the iron spins in $\text{NdFeAsO}$ . <i>Physical Review B</i> , 2008, 78, .	3.2	122
11	Superconducting state coexisting with a phase-separated static magnetic order in $\text{BaFe}_2$ . <i>Physical Review B</i> , 2009, 80, .	3.2	116
12	Optical investigations of the normal and superconducting states reveal two electronic subsystems in iron pnictides. <i>Physical Review B</i> , 2010, 81, .	3.2	113
13	Electronic structure of the $\text{BaFe}_2$ of iron-pnictide superconductors. <i>Physical Review B</i> , 2009, 80, .	3.2	103
14	Structural phase transition in $\text{IrTe}_2$ : A combined study of optical spectroscopy and band structure calculations. <i>Scientific Reports</i> , 2013, 3, 1153.	3.3	95
15	Doping evolution of antiferromagnetic order and structural distortion in $\text{LaFeAsO}$ . <i>Physical Review Letters</i> , 2010, 104, 027003.	3.2	90
16	Ultrafast Pump-Probe Study of Phase Separation and Competing Orders in the Underdoped $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ . <i>Physical Review Letters</i> , 2010, 104, 027003.	7.8	90
17	Electrical Conductivity of an Individual Polyaniline Nanotube Synthesized by a Self-Assembly Method. <i>Macromolecular Rapid Communications</i> , 2003, 24, 938-942.	3.9	89
18	Muon-spin-relaxation studies of magnetic order and superfluid density in antiferromagnetic $\text{NdFeAsO}$ , $\text{BaFe}_2\text{As}_2$ , and superconducting $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ . <i>Physical Review B</i> , 2008, 78, .	3.2	89

#	ARTICLE	IF	CITATIONS
19	Strong-coupling superconductivity in the nickel-based oxypnictide $\text{LaNiAsO}$ . Physical Review B, 2008, 78, .	3.2	85
20	Resistivity and Upper Critical Field in $\text{KFe}_2\text{As}_2$ Single Crystals. Journal of the Physical Society of Japan, 2009, 78, 063702.	1.6	84
21	Spectroscopic evidence for bulk-band inversion and three-dimensional massive Dirac fermions in $\text{ZrTe}_5$ . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 816-821.	7.1	77
22	Two superconducting gaps in $\text{LaFeAsO}$ . Physical Review B, 2009, 79, .	3.2	74
23	Kaman phonons in $\text{FeTe}$ . Physical Review B, 2009, 79, .	3.2	59
24	Spin Glass Behaviour in a 1D Mixed Molybdenum-Vanadium Heteropolyoxometalate-Bridged Coordination Polymer. European Journal of Inorganic Chemistry, 2004, 2004, 4774-4779.	2.0	58
25	Infrared Spectroscopy of the Charge Ordering Transition of $\text{Na}_0.5\text{CoO}_2$ . Physical Review Letters, 2004, 93, 147403.	7.8	57
26	Ultrabroadband photosensitivity from visible to terahertz at room temperature. Science Advances, 2018, 4, eaao3057.	10.3	55
27	Coexistence and competition of multiple charge-density-wave orders in rare-earth tritellurides. Physical Review B, 2014, 90, .	3.2	51
28	Fermi surface and band renormalization of $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ from angle-resolved photoemission spectroscopy. Physical Review B, 2008, 78, .	3.2	49
29	Observation of anomalous temperature dependence of spectrum on small Fermi surfaces in $\text{BiS}_2$ -based superconductor. Physical Review B, 2014, 90, .	3.2	48
30	Unconventional charge density wave and photoinduced lattice symmetry change in the kagome metal $\text{CsV}_3\text{Sb}_5$ probed by time-resolved spectroscopy. Physical Review B, 2021, 104, .	3.2	46
31	$\text{H}\hat{\alpha}$ in $\text{TaS}_2$ . Physical Review B, 2016, 94, .	3.2	45
32	Infrared Probe of the Electronic Structure and Charge Dynamics of $\text{Na}_0.7\text{CoO}_2$ . Physical Review Letters, 2004, 93, 237007.	7.8	42
33	High energy pseudogap and its evolution with doping in Fe-based superconductors as revealed by optical spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 294202.	1.8	38
34	The discovery of dynamic chiral anomaly in a Weyl semimetal $\text{NbAs}$ . Nature Communications, 2020, 11, 1259.	12.8	38
35	Anisotropic transport and optical spectroscopy study on antiferromagnetic triangular lattice $\text{EuCd}_2$ . Physical Review B, 2016, 94, .	3.2	36
36	Origin of the structural phase transition in $\text{BaNi}_2\text{As}_2$ . Physical Review B, 2009, 80, .	2.4	35

#	ARTICLE	IF	CITATIONS
37	From confined spinons to emergent fermions: Observation of elementary magnetic excitations in a transverse-field Ising chain. <i>Physical Review B</i> , 2016, 94, .	3.2	35
38	Thermal Localization Enhanced Fast Photothermoelectric Response in a Quasi-One-Dimensional Flexible NbS <sub>3</sub> Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14165-14173.	8.0	35
39	Unconventional charge-density wave in $\text{SrIr}_4\text{Sn}_{13}$ superconductor revealed by optical spectroscopy study. <i>Physical Review B</i> , 2014, 90, .	3.2	34
40	Dopant clustering, electronic inhomogeneity, and vortex pinning in iron-based superconductors. <i>Physical Review B</i> , 2013, 87, .	3.2	33
41	A Novel Mixed-Valence CuI/CuII Coordination Polymer: Solvothermal Synthesis, Crystal Structure, and Magnetic Properties of $\text{CuI}(\text{Cull}(2\text{-Pyrazinecarboxylate})_2(\text{H}_2\text{O})(\text{ClO}_4))$ . <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 3618-3622.	2.0	32
42	Revealing Extremely Low Energy Amplitude Modes in the Charge-Density-Wave Compound $\text{LaAgSb}_2$ . <i>Physical Review Letters</i> , 2017, 118, 107402.	7.8	32
43	Optical study of the metal-insulator transition in $\text{CuIr}_2\text{S}_4$ crystals. <i>Physical Review B</i> , 2004, 69, .	3.2	29
44	Pressure-induced lattice collapse in the tetragonal phase of single-crystalline $\text{Fe}_2\text{As}_2$ . <i>Physical Review B</i> , 2009, 80, .	3.2	29
45	BaFe <sub>2</sub> As <sub>2</sub> . <i>Physical Review B</i> , 2011, 84, .	3.2	29
46	Granularity and vortex dynamics in $\text{LaFeAsO}_{0.92}\text{F}_{0.08}$ probed by harmonics of the ac magnetic susceptibility. <i>Physical Review B</i> , 2008, 78, .	3.2	27
47	Low temperature properties of pnictide CrAs single crystal. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1207-1211.	5.1	27
48	Revealing multiple charge-density-wave orders in $\text{TbTe}_3$ optical conductivity and ultrafast pump-probe experiments. <i>Physical Review B</i> , 2014, 89, .	3.2	27
49	Marginal Fermi liquid analysis of 300 K reflectance of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8 + \delta$ . <i>Physical Review B</i> , 2004, 69, .	3.2	26
50	Doping evolution of the chemical potential, spin-correlation gap, and charge dynamics of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ . <i>Physical Review B</i> , 2006, 73, .	3.2	25
51	Ultrabroadband, Fast, and Flexible Photodetector Based on $\text{HfTe}_5$ Crystal. <i>Advanced Optical Materials</i> , 2020, 8, 2000833.	7.3	25
52	Field-induced magnon excitation and in-gap absorption in the Kitaev candidate $\text{RuCl}_3$ . <i>Physical Review B</i> , 2018, 98, .	3.2	24
53	Optical evidence for mass enhancement of quasiparticles in pyrochlore $\text{Cd}_2\text{Re}_2\text{O}_7$ . <i>Physical Review B</i> , 2002, 66, .	3.2	23
54	Photoinduced multistage phase transitions in $\text{Ta}_2\text{NiSe}_5$ . <i>Nature Communications</i> , 2021, 12, 2050.	12.8	23

#	ARTICLE	IF	CITATIONS
55	Light-induced new collective modes in the superconductor $\text{La}_{1-x}\text{Ce}_x\text{CuO}_2$ . Physical Review B, 2018, 98, .	2.0	190
56	Infrared properties of $\text{La}_{2-x}(\text{Ca,Sr})_x\text{CuO}_6$ single crystals. Physical Review B, 2003, 67, .	3.2	19
57	Infrared properties of heavy fermions: evolution from weak to strong hybridizations. Reports on Progress in Physics, 2016, 79, 064502.	20.1	19
58	Electrical properties of a single electrochemically template-synthesized polypyrrole nanowire. Applied Physics Letters, 2006, 88, 253106.	3.3	18
59	Optical study of $\text{MgTi}_2\text{O}_4$ : Evidence for an orbital-Peierls state. Physical Review B, 2006, 74, .	3.2	17
60	Evidence for a band broadening across the ferromagnetic transition of $\text{Cr}_2\text{O}_3$ . Physical Review B, 2008, 78, .	3.2	17
61	Evidence for a full energy gap in the nickel pnictide superconductor $\text{LaNiAsO}_{1-x}\text{F}_x$ from $A_{75}$ nuclear quadrupole resonance. Physical Review B, 2010, 81, .	3.2	17
62	Thermal Hall conductivity as a probe of gap structure in multiband superconductors: The case of $\text{BaFe}_{1-x}\text{K}_x\text{As}_2$ . Physical Review B, 2017, 95, .	3.2	17
63	Optical spectroscopy study of $\text{NdFeAsO}_{1-x}\text{F}_x$ single crystals. Physical Review B, 2014, 90, .	3.2	17
64	Magnetic excitations of the field-induced states in $\text{BaCo}_2\text{As}_2$ probed by time-domain terahertz spectroscopy. Physical Review B, 2021, 104, .	3.2	17
65	Intergrain Effects in the AC Susceptibility of Polycrystalline $\text{LaFeAsO}_{0.94}\text{F}_{0.06}$ . Journal of Low Temperature Physics, 2011, 162, 40-51.	1.4	16
66	Hybridization gap versus hidden-order gap in $\text{URuSi}_2$ as revealed by optical spectroscopy. Physical Review B, 2017, 95, .	3.2	16
67	Hybridization gap versus hidden-order gap in $\text{URuTi}_2$ as revealed by optical spectroscopy. Physical Review B, 2017, 95, .	3.2	16
68	Conventional empirical law reverses in the phase transitions of 122-type iron-based superconductors. Scientific Reports, 2014, 4, 7172.	3.3	16
69	Band-selective third-harmonic generation in superconducting $\text{MgB}_2$ : Possible evidence for the Higgs amplitude mode in the dirty limit. Physical Review B, 2021, 104, .	3.2	16
70	Dimensional crossover and anomalous magnetoresistivity of superconducting $\text{Na}_x\text{CoO}_2$ single crystals. Physical Review B, 2005, 71, .	3.2	14
71	Layered semiconductor $\text{EuTe}_4$ with charge density wave order in square tellurium sheets. Physical Review Materials, 2019, 3, .	3.2	14
72	Unconventional Hysteretic Transition in a Charge Density Wave. Physical Review Letters, 2022, 128, 036401.	7.8	14

#	ARTICLE	IF	CITATIONS
73	Optical study of phase transitions in single-crystalline RuP. Physical Review B, 2015, 91, .	3.2	13
74	Optical spectroscopy and ultrafast pump-probe study on $\text{Bi}_2\text{Te}_3$ : Evidence for charge density wave order formation. Physical Review B, 2020, 101, .	3.2	13
75	Anisotropic magnetoresistance in charge-ordered $\text{Na}_0.34(\text{H}_3\text{O})_{0.15}\text{CoO}_2$ : Strong spin-charge coupling and spin ordering. Physical Review B, 2006, 74, .	3.2	12
76	Three-dimensionality of band structure and a large residual quasiparticle population in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2010, 81, .	3.2	11
77	Anomalous Behavior of Low Temperature Specific Heat in $\text{HgCr}_2\text{Se}_4$ . Journal of Low Temperature Physics, 2013, 171, 127-134.	1.4	12
78	Observation of ultrahigh mobility surface states in a topological crystalline insulator by infrared spectroscopy. Nature Communications, 2017, 8, 366.	12.8	12
79	Magnetic form factor of $\text{SrFe}_2\text{As}_2$ : Neutron diffraction measurements. Physical Review B, 2010, 81, .	3.2	11
80	Evidence for nesting-driven charge density wave instabilities in the quasi-two-dimensional material $\text{LaAgSb}_2$ . Physical Review Research, 2021, 3, .	3.6	11
81	Charge density wave in $\text{FeSe}$ . Physical Review B, 2010, 81, .	3.2	10
82	Thermal hysteresis and anisotropy in the magnetoresistance of antiferromagnetic $\text{Nd}_2\text{CeCuO}_4$ . Physical Review B, 2005, 72, .	3.2	9
83	Very high upper critical fields of F-doped Fe-based layered superconductors $\text{NdO}_{0.88}\text{F}_{0.12}\text{FeAs}$ and $\text{CeO}_{0.88}\text{F}_{0.12}\text{FeAs}$ . Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 715-718.	0.2	9
84	Different nature of instabilities in $\text{BaFe}_2\text{As}_2$ and $\text{BaNi}_2\text{As}_2$ as revealed by optical spectroscopy. Physica Status Solidi (B): Basic Research, 2010, 247, 495-499.	1.5	9
85	Charge density wave in $\text{BaTiFe}_2\text{As}_2$ . Physical Review B, 2010, 81, .	3.2	9
86	Optical spectroscopy and ultrafast pump-probe studies on the heavy-fermion compound $\text{CePtIn}_7$ . Physical Review B, 2016, 94, .	3.2	9
87	Optical spectroscopy study of charge density wave order in $\text{Sr}_3\text{Rh}_4\text{Sn}_{13}$ and $(\text{Sr}_{0.5}\text{Ca}_{0.5})_3\text{Rh}_4\text{Sn}_{13}$ . Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	9
88	Dramatic change of photoexcited quasiparticle relaxation dynamics across Yb valence state transition in $\text{YbInCu}_4$ . Physical Review B, 2017, 95, .	3.2	9
89	Low-carrier density and fragile magnetism in a Kondo lattice system. Physical Review B, 2019, 99, .	3.2	9
90	Granularity and Linear Flux Dynamics in Sintered $\text{LaO}_{0.92}\text{F}_{0.08}\text{FeAs}$ . Journal of Superconductivity and Novel Magnetism, 2009, 22, 609-612.	1.8	8



#	ARTICLE	IF	CITATIONS
91	Tunable near- to mid-infrared pump terahertz probe spectroscopy in reflection geometry. <i>Frontiers of Physics</i> , 2017, 12, 1.	5.0	8
92	Optical spectroscopy and ultrafast pump-probe study of a quasi-one-dimensional charge density wave in CuTe. <i>Physical Review B</i> , 2022, 105, .	3.2	8
93	Splitting of the second magnetization peak in the superconductor $Tl_2Ba_2CaCu_2O_{8+x}$ . <i>Physical Review B</i> , 2006, 73, .	3.2	7
94	Revealing multiple density wave orders in nonsuperconducting titanium oxypnictide $Na_2TiAs_2O$ . <i>Physical Review B</i> , 2014, 89, .	3.2	7
95	Photoinduced metastable state with modulated Josephson coupling strengths in $PrO_x$ . <i>Physical Review B</i> , 2018, 98, .	3.2	7
96	Transient Higgs oscillations and high-order nonlinear light-Higgs coupling in a terahertz wave driven $NbN$ superconductor. <i>Physical Review B</i> , 2022, 105, .	3.2	7
97	Continuous magnetic phase transition in frustrated $CaOs_2$ . <i>Physical Review B</i> , 2018, 98, .	3.2	6
98	Effect of disorder in the charge-density-wave compounds $LaTe_{1.95}$ and $CeTe_{1.95-x}S_x$ ( $x=0$ and $0.16$ ) as revealed by optical spectroscopy. <i>Physical Review B</i> , 2012, 86, .	3.2	6
99	Observation of magnetoelastic effects in a quasi-one-dimensional spiral magnet. <i>Physical Review B</i> , 2017, 96, .	3.2	6
100	Revealing correlation effect of Co 3d electrons in $La_3Co_4Sn_{13}$ and $Ce_3Co_4Sn_{13}$ by infrared spectroscopy study. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 405603.	1.8	6
101	Optical spectroscopy and ultrafast pump-probe study of the structural phase transition in $TaTe_2$ . <i>Physical Review B</i> , 2022, 105, .	3.2	6
102	Phonon softening and forbidden mode in $Na_{0.5}CoO_2$ observed by Raman scattering. <i>Physical Review B</i> , 2008, 77, .	3.2	5
103	Low-energy Ce spin excitations in $CeFeAsO$ and $CeFeAsO_{0.84}F_{0.16}$ . <i>Frontiers of Physics in China</i> , 2010, 5, 161-165.	1.0	5
104	Optical spectroscopy study of the collapsed tetragonal phase of $CaFe_2(As_{0.935}P_{0.065})_2$ single crystals. <i>Physical Review B</i> , 2014, 90, .	3.2	5
105	Possible orbital crossover in the ferromagnetic Kondo lattice compound $CeAgSb_2$ . <i>Physical Review B</i> , 2019, 99, .	3.2	5
106	Angular-dependent magnetoresistance oscillations in $Na_{0.48}CoO_2$ single crystals. <i>Physical Review B</i> , 2006, 73, .	3.2	4
107	Deviating band symmetries and many-body interactions in a model hole-doped iron pnictide superconductor. <i>Physical Review B</i> , 2012, 86, .	3.2	4
108	Optical properties of $TlNi_2S_2$ . Observation of pseudogap formation. <i>Physical Review B</i> , 2015, 92, .	3.2	4

#	ARTICLE	IF	CITATIONS
109	Angle-resolved spectroscopy study of Ni-based superconductor $\text{SrNi}_2\text{As}_2$ . Physical Review B, 2016, 94, .	3.2	4
110	Single-crystal growth and physical property characterization of the intermediate-valence compound $\text{YbFe}_2\text{Al}_{10}$ . Physical Review B, 2017, 95, .	5.1	3
111	Ultrafast quasiparticle dynamics in spin-density-wave $\text{LaOFeAs}$ single crystal. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2395-2398.	27.5	3
112	Nano-imaging a photoinduced phase transition. Nature Materials, 2020, 19, 370-372.	1.0	2
113	Optical properties of $\text{FeAs}$ -based parent compound: A comparative study for polycrystalline $\text{EuFe}_2\text{As}_2$ and $\text{LaFeAsO}$ . Frontiers of Physics in China, 2009, 4, 459-463.	0.7	2
114	Robust magnetic order of Ce 4f-electrons coexisting with superconductivity in $\text{CeFeAsO}_{1-x}\text{F}_x$ . Journal of the Korean Physical Society, 2013, 62, 2001-2003.	1.8	0
115	Surface states in lightly hole-doped sodium cobaltate $\text{NaCo}_2\text{O}_7$ . Physical Review B, 2015, 91, .	1.4	0
116	Multiple Superconducting Gaps and Anisotropic Spin Fluctuations in Hole-Doped and Electron-Doped Iron-Pnictides: NMR Studies. Journal of Superconductivity and Novel Magnetism, 2010, 23, 609-612.	1.4	0
117	Optical study on intermediate-valence compounds $\text{Yb}_{1-x}\text{Lu}_x\text{Al}_3$ . Chinese Physics B, 2018, 27, 017803.	3.2	0
118	Magneto optics and time resolved terahertz spectroscopy. Chinese Physics B, 2018, 27, 077501.	0.0	0
119	Magnetic and electronic properties of single-crystalline $\text{BaCoSO}$ . Physical Review B, 2019, 100, .		
120	Infrared and Optical Response of High-Temperature Superconductors. Peking University-World Scientific Advanced Physics Series, 2020, , 51-78.		