J Y Y Lin

List of Publications by Year
in descending order

59 papers	2,181 citations	430874 18 h-index	223800 46 g-index
60 all docs	60 docs citations	60 times ranked	2171 citing authors

#	Article	IF	Citations
1	A super-resolution technique to analyze single-crystal inelastic neutron scattering measurements using direct-geometry chopper spectrometers. Review of Scientific Instruments, 2022, 93, 025101.	1.3	5
2	A concept of a broadband inverted geometry spectrometer for the Second Target Station at the Spallation Neutron Source. Review of Scientific Instruments, 2022, 93, 045101.	1.3	10
3	Damped Dirac magnon in the metallic kagome antiferromagnet FeSn. Physical Review B, 2022, 105, .	3.2	15
4	MENUSâ€"Materials engineering by neutron scattering. Review of Scientific Instruments, 2022, 93, 053911.	1.3	4
5	CHESS: The future direct geometry spectrometer at the second target station. Review of Scientific Instruments, 2022, 93, .	1.3	9
6	Ferrimagnetic spin waves in honeycomb and triangular layers of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Si</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2022, 105, .	3.2	9
7	VERDI: VERsatile DIffractometer with wide-angle polarization analysis for magnetic structure studies in powders and single crystals. Review of Scientific Instruments, 2022, 93, .	1.3	6
8	EWALD: A macromolecular diffractometer for the second target station. Review of Scientific Instruments, 2022, 93, .	1.3	4
9	PIONEER, a high-resolution single-crystal polarized neutron diffractometer. Review of Scientific Instruments, 2022, 93, .	1.3	7
10	CENTAURâ€"The small- and wide-angle neutron scattering diffractometer/spectrometer for the Second Target Station of the Spallation Neutron Source. Review of Scientific Instruments, 2022, 93, .	1.3	9
11	EXPANSE: A time-of-flight EXPanded Angle Neutron Spin Echo spectrometer at the Second Target Station of the Spallation Neutron Source. Review of Scientific Instruments, 2022, 93, .	1.3	4
12	Mutual spin-phonon driving effects and phonon eigenvector renormalization in nickel (II) oxide. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	1
13	Neutron Radiography and Computed Tomography of Biological Systems at the Oak Ridge National Laboratory's High Flux Isotope Reactor. Journal of Visualized Experiments, 2021, , .	0.3	1
14	Neutron thermalization in nuclear graphite: A modern story of a classic moderator. Annals of Nuclear Energy, 2021, 161, 108437.	1.8	4
15	Antichiral spin order, its soft modes, and their hybridization with phonons in the topological semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Mn</mml:mi></mml:mrow><mml:mn>3</m Physical Review B, 2020, 102, .	3.2	29
16	Extended anharmonic collapse of phonon dispersions in SnS and SnSe. Nature Communications, 2020, 11, 4430.	12.8	46
17	Temperature-dependent phonon lifetimes and thermal conductivity of silicon by inelastic neutron scattering and <i>ab initio</i> calculations. Physical Review B, 2020, 102, .	3.2	18
18	Computational optimization of a 3D printed collimator. Journal of Neutron Research, 2020, 22, 155-168.	1.1	4

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19	Vacancy-driven variations in the phonon density of states of fast neutron irradiated nuclear graphite. Carbon, 2020, 168, 42-54.	10.3	13
20	Controlling phonon lifetimes via sublattice disordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ag</mml:mi><mml:mi>Bi</mml:mi><mml:msub><mml:m Physical Review Materials, 2020, 4, .	2.4	8
21	Recent developments of MCViNE and its applications at SNS. Journal of Physics Communications, 2019, 3, 085005.	1.2	27
22	Neutron imaging analysis using jupyter Python notebook. Journal of Physics Communications, 2019, 3, 083001.	1.2	3
23	Design of a radial collimator for the SEQUOIA direct geometry chopper spectrometer. Physica B: Condensed Matter, 2019, 564, 17-21.	2.7	3
24	Energy dependence of the flux and elastic resolution for the ARCS neutron spectrometer. Physica B: Condensed Matter, 2019, 562, 26-30.	2.7	13
25	Super-resolution energy spectra from neutron direct-geometry spectrometers. Review of Scientific Instruments, 2019, 90, 105109.	1.3	9
26	An interactive web-based tool to guide the preparation of neutron imaging experiments at oak ridge national laboratory. Journal of Physics Communications, 2019, 3, 103003.	1.2	6
27	Nuclear quantum effect with pure anharmonicity and the anomalous thermal expansion of silicon. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1992-1997.	7.1	68
28	Conceptual design of CHESS, a new direct-geometry inelastic neutron spectrometer dedicated to studying small samples. Journal of Applied Crystallography, 2018, 51, 282-293.	4.5	13
29	Multiphonon: Phonon Density of States tools for Inelastic Neutron Scattering Powder Data. Journal of Open Source Software, 2018, 3, 440.	4.6	17
30	bem: modeling for neutron Bragg-edge imaging. Journal of Open Source Software, 2018, 3, 973.	4.6	2
31	Separating the configurational and vibrational entropy contributions in metallic glasses. Nature Physics, 2017, 13, 900-905.	16.7	83
32	Design and operating characteristic of a vacuum furnace for time-of-flight inelastic neutron scattering measurements. Review of Scientific Instruments, 2017, 88, 105116.	1.3	13
33	Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. Journal of Imaging, 2017, 3, 65.	3.0	31
34	Momentum and energy dependent resolution function of the ARCS neutron chopper spectrometer at high momentum transfer: Comparing simulation and experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 835, 34-41.	1.6	6
35	Light atom quantum oscillations in UC and US. Physical Review B, 2016, 93, .	3.2	5
36	MCViNE â€“ An object oriented Monte Carlo neutron ray tracing simulation package. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 810, 86-99.	1.6	51

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37	Erosion by an Alpine glacier. Science, 2015, 350, 193-195.	12.6	138
38	Using Monte Carlo ray tracing simulations to model the quantum harmonic oscillator modes observed in uranium nitride. Physical Review B, 2014, 89, .	3.2	18
39	Design and operation of the wide angular-range chopper spectrometer ARCS at the Spallation Neutron Source. Review of Scientific Instruments, 2012, 83, 015114.	1.3	210
40	AtomSim: web-deployed atomistic dynamics simulator. Journal of Applied Crystallography, 2010, 43, 1553-1559.	4.5	1
41	Phonon Density of States of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaFeAsO</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</m mathvariant="normal">F</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:math>. Physical Review Letters, 2008, 101, 157004.	7.8	65
42	Electron-phonon interactions and high-temperature thermodynamics of vanadium and its alloys. Physical Review B, 2008, 77, .	3.2	36
43	Phonons in aluminum at high temperatures studied by inelastic neutron scattering. Physical Review B, 2008, 77, .	3.2	96
44	Neutron scattering measurements of phonons in nickel at elevated temperatures. Physical Review B, 2007, 75, .	3.2	66
45	Characterization of a large-format, fine-pitch CdZnTe pixel detector for the HEFT balloon-Borne experiment. IEEE Transactions on Nuclear Science, 2004, 51, 2472-2477.	2.0	10
46	Spatial periodicities of defect environments in 57Fe3Al studied by MÃ¶ssbauer powder diffractometry. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.8	2
47	Characterization of the HEFT CdZnTe pixel detectors. , 2004, , .		13
48	Site-specific long-range order in57Fe3Al measured by MÃ¶ssbauer diffractometry. Philosophical Magazine, 2003, 83, 2621-2640.	1.6	3
49	MÃ¶ssbauer Diffractometry. , 2003, , 285-295.		0
50	MÃ¶ssbauer diffractometry on polycrystalline57Fe3Al. Physical Review B, 2002, 65, .	3.2	4
51	MÃ¶ssbauer Diffractometry on Chemical Sites of 57Fe in Fe3Al. Hyperfine Interactions, 2002, 141/142, 145-150.	0.5	1
52	Theoretical calculations and predictions of the nonlinear optical coefficients of borate crystals. Journal of Physics Condensed Matter, 2001, 13, R369-R384.	1.8	66
53	Polarization Factors for 57Fe MÃ¶ssbauer Diffractions from Polycrystals. Hyperfine Interactions, 2001, 136/137, 663-672.	0.5	1
54	Intensities of MÃ¶ssbauer diffractions from polycrystalline bcc57Fe. Physical Review B, 2001, 65, .	3.2	4

#	ARTICLE	IF	CITATIONS
55	Determination of the nonlinear optical coefficients of YCa_4O(BO_3)_3 crystal. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 566.	2.1	49
56	Mechanism for linear and nonlinear optical effects inLiB3O5,CsB3O5,andCsLiB6O10crystals. Physical Review B, 2000, 62, 1757-1764.	3.2	101
57	Mechanism for linear and nonlinear optical effects inÎ²âˆ’BaB2O4crystals. Physical Review B, 1999, 60, 13380-13389.	3.2	465
58	Computer-Assisted Search for Nonlinear Optical Crystals. Advanced Materials, 1999, 11, 1071-1078.	21.0	273
59	<title>Computer-assisted design for nonlinear optical crystals</title>. , 1998, , .		3