

J Y Y Lin

List of Publications by Year in descending order

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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	Mechanism for linear and nonlinear optical effects in BaB_2O_4 crystals. <i>Physical Review B</i> , 1999, 60, 13380-13389.	3.2	465
2	Computer-Assisted Search for Nonlinear Optical Crystals. <i>Advanced Materials</i> , 1999, 11, 1071-1078.	21.0	273
3	Design and operation of the wide angular-range chopper spectrometer ARCS at the Spallation Neutron Source. <i>Review of Scientific Instruments</i> , 2012, 83, 015114.	1.3	210
4	Erosion by an Alpine glacier. <i>Science</i> , 2015, 350, 193-195.	12.6	138
5	Mechanism for linear and nonlinear optical effects in LiB_3O_5 , CsB_3O_5 , and $\text{CsLiB}_6\text{O}_{10}$ crystals. <i>Physical Review B</i> , 2000, 62, 1757-1764.	3.2	101
6	Phonons in aluminum at high temperatures studied by inelastic neutron scattering. <i>Physical Review B</i> , 2008, 77, .	3.2	96
7	Separating the configurational and vibrational entropy contributions in metallic glasses. <i>Nature Physics</i> , 2017, 13, 900-905.	16.7	83
8	Nuclear quantum effect with pure anharmonicity and the anomalous thermal expansion of silicon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1992-1997.	7.1	68
9	Theoretical calculations and predictions of the nonlinear optical coefficients of borate crystals. <i>Journal of Physics Condensed Matter</i> , 2001, 13, R369-R384.	1.8	66
10	Neutron scattering measurements of phonons in nickel at elevated temperatures. <i>Physical Review B</i> , 2007, 75, .	3.2	66
11	Phonon Density of States of LaFeAsO . <i>Physical Review Letters</i> , 2008, 101, 157004.	7.8	65
12	MCViNE – An object oriented Monte Carlo neutron ray tracing simulation package. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 810, 86-99.	1.6	51
13	Determination of the nonlinear optical coefficients of $\text{YCa}_4\text{(BO}_3)_3$ crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000, 17, 566.	2.1	49
14	Extended anharmonic collapse of phonon dispersions in SnS and SnSe . <i>Nature Communications</i> , 2020, 11, 4430.	12.8	46
15	Electron-phonon interactions and high-temperature thermodynamics of vanadium and its alloys. <i>Physical Review B</i> , 2008, 77, .	3.2	36
16	Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. <i>Journal of Imaging</i> , 2017, 3, 65.	3.0	31
17	Antichiral spin order, its soft modes, and their hybridization with phonons in the topological semimetal Mn_3Sb_2 . <i>Physical Review B</i> , 2020, 102, .	3.2	29
18	Recent developments of MCViNE and its applications at SNS. <i>Journal of Physics Communications</i> , 2019, 3, 085005.	1.2	27

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19	Using Monte Carlo ray tracing simulations to model the quantum harmonic oscillator modes observed in uranium nitride. <i>Physical Review B</i> , 2014, 89, .	3.2	18
20	Temperature-dependent phonon lifetimes and thermal conductivity of silicon by inelastic neutron scattering and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2020, 102, .	3.2	18
21	Multiphonon: Phonon Density of States tools for Inelastic Neutron Scattering Powder Data. <i>Journal of Open Source Software</i> , 2018, 3, 440.	4.6	17
22	Damped Dirac magnon in the metallic kagome antiferromagnet FeSn. <i>Physical Review B</i> , 2022, 105, .	3.2	15
23	Characterization of the HEFT CdZnTe pixel detectors. , 2004, , .		13
24	Design and operating characteristic of a vacuum furnace for time-of-flight inelastic neutron scattering measurements. <i>Review of Scientific Instruments</i> , 2017, 88, 105116.	1.3	13
25	Conceptual design of CHESSE, a new direct-geometry inelastic neutron spectrometer dedicated to studying small samples. <i>Journal of Applied Crystallography</i> , 2018, 51, 282-293.	4.5	13
26	Energy dependence of the flux and elastic resolution for the ARCS neutron spectrometer. <i>Physica B: Condensed Matter</i> , 2019, 562, 26-30.	2.7	13
27	Vacancy-driven variations in the phonon density of states of fast neutron irradiated nuclear graphite. <i>Carbon</i> , 2020, 168, 42-54.	10.3	13
28	Characterization of a large-format, fine-pitch CdZnTe pixel detector for the HEFT balloon-Borne experiment. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 2472-2477.	2.0	10
29	A concept of a broadband inverted geometry spectrometer for the Second Target Station at the Spallation Neutron Source. <i>Review of Scientific Instruments</i> , 2022, 93, 045101.	1.3	10
30	Super-resolution energy spectra from neutron direct-geometry spectrometers. <i>Review of Scientific Instruments</i> , 2019, 90, 105109.	1.3	9
31	CHESSE: The future direct geometry spectrometer at the second target station. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	9
32	Ferrimagnetic spin waves in honeycomb and triangular layers of $Mn_3Si_2Te_6$. <i>Physical Review B</i> , 2022, 105, .	3.2	9
33	CENTAUR® The small- and wide-angle neutron scattering diffractometer/spectrometer for the Second Target Station of the Spallation Neutron Source. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	9
34	Controlling phonon lifetimes via sublattice disordering in $Ag_2Bi_2S_6$. <i>Physical Review Materials</i> , 2020, 4, .	2.4	8
35	PIONEER, a high-resolution single-crystal polarized neutron diffractometer. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	7
36	Momentum and energy dependent resolution function of the ARCS neutron chopper spectrometer at high momentum transfer: Comparing simulation and experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 835, 34-41.	1.6	6

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37	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
38	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
39	Light atom quantum oscillations in UC and US. Physical Review B, 2016, 93, .	3.2	5
40	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
41	Intensities of Mössbauer diffractions from polycrystalline bcc57Fe. Physical Review B, 2001, 65, .	3.2	4
42	Mössbauer diffractometry on polycrystalline57Fe3Al. Physical Review B, 2002, 65, .	3.2	4
43	Computational optimization of a 3D printed collimator. Journal of Neutron Research, 2020, 22, 155-168.	1.1	4
44	Neutron thermalization in nuclear graphite: A modern story of a classic moderator. Annals of Nuclear Energy, 2021, 161, 108437.	1.8	4
45	MENUSâ€”Materials engineering by neutron scattering. Review of Scientific Instruments, 2022, 93, 053911.	1.3	4
46	EWALD: A macromolecular diffractometer for the second target station. Review of Scientific Instruments, 2022, 93, .	1.3	4
47	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
48	<title>Computer-assisted design for nonlinear optical crystals</title>. , 1998, , .		3
49	Site-specific long-range order in57Fe3Al measured by Mössbauer diffractometry. Philosophical Magazine, 2003, 83, 2621-2640.	1.6	3
50	Neutron imaging analysis using jupyter Python notebook. Journal of Physics Communications, 2019, 3, 083001.	1.2	3
51	Design of a radial collimator for the SEQUOIA direct geometry chopper spectrometer. Physica B: Condensed Matter, 2019, 564, 17-21.	2.7	3
52	Spatial periodicities of defect environments in 57Fe3Al studied by Mössbauer powder diffractometry. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.8	2
53	bem: modeling for neutron Bragg-edge imaging. Journal of Open Source Software, 2018, 3, 973.	4.6	2
54	Polarization Factors for 57Fe Mössbauer Diffractions from Polycrystals. Hyperfine Interactions, 2001, 136/137, 663-672.	0.5	1

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55	Mössbauer Diffraction on Chemical Sites of ^{57}Fe in Fe_3Al . <i>Hyperfine Interactions</i> , 2002, 141/142, 145-150.	0.5	1
56	AtomSim: web-deployed atomistic dynamics simulator. <i>Journal of Applied Crystallography</i> , 2010, 43, 1553-1559.	4.5	1
57	Neutron Radiography and Computed Tomography of Biological Systems at the Oak Ridge National Laboratory's High Flux Isotope Reactor. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	1
58	Mutual spin-phonon driving effects and phonon eigenvector renormalization in nickel (II) oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	1
59	Mössbauer Diffraction. , 2003, , 285-295.		0