

Jennifer L Niedziela

List of Publications by Year in descending order

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61
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citations

331670

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62
all docs

62
docs citations

62
times ranked

3520
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical vibrational spectra and proposed crystal structure of $\hat{\mu}$ -UO ₃ . Journal of Nuclear Materials, 2022, 559, 153386.	2.7	4
2	Inelastic neutron spectra of polyacrylonitrile-based carbon fibers. Physical Review Materials, 2022, 6, .	2.4	3
3	Observation of a Novel Lattice Instability in Ultrafast Photoexcited SnSe. Physical Review X, 2022, 12, .	8.9	10
4	Influence of temperature on accessible pyrolysis pathways of homopolymerized bisphenol A/F epoxies and copolymers. Journal of Analytical and Applied Pyrolysis, 2021, 153, 104978.	5.5	11
5	Magnetoelastic coupling and spin contributions to entropy and thermal transport in biferroic yttrium orthochromite $\langle \sup \rangle^*$. Journal of Physics Condensed Matter, 2021, 33, 125702.	1.8	2
6	Magnetoelastic coupling, negative thermal expansion, and two-dimensional magnetic excitations in FeAs. Physical Review B, 2021, 103, .	3.2	6
7	Antiferromagnetic ordering and possible lattice response to dynamic uranium valence in U ₃ O ₈ . Physical Review B, 2021, 103, .	3.2	3
8	Measurement of the generalized spin polarizabilities of the neutron in the low-Q ₂ region. Nature Physics, 2021, 17, 687-692.	16.7	9
9	Quantitative analysis of Raman spectral parameters for carbon fibers: practical considerations and connection to mechanical properties. Journal of Materials Science, 2021, 56, 15087.	3.7	28
10	Inelastic Neutron Spectra of Uranium Tetrafluoride Hydrate, UF ₄ (H ₂ O) _{2.5} . Journal of Physical Chemistry C, 2021, 125, 25007-25021.	3.1	2
11	Computational investigations of Dienes defect- and vacancy-induced changes in the electronic and vibrational properties of carbon fiber structural units. Physical Chemistry Chemical Physics, 2021, 23, 27385-27396.	2.8	3
12	Characterizing the degradation of [(UO ₂ F ₂)(H ₂ O)] ₇ 4H ₂ O under humid conditions. Journal of Nuclear Materials, 2020, 529, 151889.	2.7	11
13	Structural, Spectroscopic, and Kinetic Insight into the Heating Rate Dependence of Studtite and Metastudtite Dehydration. Journal of Physical Chemistry C, 2020, 124, 26699-26713.	3.1	11
14	Computationally Guided Investigation of the Optical Spectra of Pure $\hat{\mu}$ -UO ₃ . Inorganic Chemistry, 2020, 59, 11481-11492.	4.0	14
15	Extended anharmonic collapse of phonon dispersions in SnS and SnSe. Nature Communications, 2020, 11, 4430.	12.8	46
16	Clathrate BaNi ₂ P ₄ : An Interplay of Heat and Charge Transport Due to Strong Host-Guest Interactions. Chemistry of Materials, 2020, 32, 7932-7940.	6.7	9
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	Anharmonic lattice dynamics and superionic transition in AgCrSe ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3930-3937.	7.1	73

#	ARTICLE	IF	CITATIONS
19	Magnetically driven phonon instability enables the metal-insulator transition in h-FeS. Nature Physics, 2020, 16, 669-675.	16.7	26
20	Structural features of solid-solid phase transitions and lattice dynamics in U_3O_8 . Physical Review Materials, 2020, 4, .	2.4	8
21	Controlling phonon lifetimes via sublattice disordering in $AgBi_2S_4$. Physical Review Materials, 2020, 4, .	2.4	8
22	Plaquette instability competing with bicollinear ground state in detwinned FeTe. Physical Review B, 2019, 100, .	3.2	7
23	Vibrational properties of uranium fluorides. Physica B: Condensed Matter, 2019, 570, 194-205.	2.7	5
24	Analysis of Water Coupling in Inelastic Neutron Spectra of Uranyl Fluoride. Scientific Reports, 2019, 9, 10476.	3.3	5
25	The Impact of Coordination Environment on the Thermodynamic Stability of Uranium Oxides. Journal of Physical Chemistry C, 2019, 123, 15985-15995.	3.1	7
26	Formation of a uranyl hydroxide hydrate via hydration of $[(UO_2)_2F_2(OH)_4] \cdot 4H_2O$. Dalton Transactions, 2019, 48, 13685-13698.	3.3	15
27	Elucidation of the Structure and Vibrational Spectroscopy of Synthetic Metaschoepite and Its Dehydration Product. Inorganic Chemistry, 2019, 58, 7310-7323.	4.0	19
28	Coexistence of Ferromagnetic and Stripe Antiferromagnetic Spin Fluctuations in $SrCo_2$. Physical Review Letters, 2019, 122, 117204.	7.8	23
29	Shining a light on amorphous U ₂ O ₇ : A computational approach to understanding amorphous uranium materials. Optical Materials, 2019, 89, 295-298.	3.6	8
30	Lattice dynamics of the hybrid improper ferroelectrics Ca_2MnO_7 . Physical Review B, 2019, 100, .	3.2	9
31	Selective breakdown of phonon quasiparticles across superionic transition in CuCrSe ₂ . Nature Physics, 2019, 15, 73-78.	16.7	88
32	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
33	Momentum-resolved observations of the phonon instability driving geometric improper ferroelectricity in yttrium manganite. Nature Communications, 2018, 9, 15.	12.8	30
34	Self-compensation induced vacancies for significant phonon scattering in InSb. Nano Energy, 2018, 48, 189-196.	16.0	30
35	Heisenberg model analysis on inelastic powder neutron scattering data using parent and K doped BaMn ₂ As ₂ samples. Physica B: Condensed Matter, 2018, 551, 51-59.	2.7	1
36	Lattice dynamics and thermal transport in multiferroic $CuCrO_2$. Physical Review B, 2017, 95, .	3.2	19

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55	Stripe Antiferromagnetic Spin Fluctuations in SrCoAs_2 . Physical Review Letters, 2013, 111, 157001.	7.8	47
56	Local structural variation as source of magnetic moment reduction in BaFeAs_2 . Physical Review B, 2012, 86, .	3.2	20
57	Spin excitations in BaFeAs_2 observed by inelastic x-ray scattering. Physical Review B, 2011, 84, .	3.2	39
58	Low-energy magnetic excitations in Co/CoO core/shell nanoparticles. Physical Review B, 2011, 83, .	3.2	18
59	The new cold neutron chopper spectrometer at the Spallation Neutron Source: Design and performance. Review of Scientific Instruments, 2011, 82, 085108.	1.3	220
60	Spin excitations in BaFeAs_2 observed by inelastic neutron scattering. Physical Review B, 2009, 80, .	3.2	184
61	Precision Measurement of the Weak Mixing Angle in M \ddot{u} ller Scattering. Physical Review Letters, 2005, 95, 081601.	7.8	212