

Matthew J Krogstad

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,047
citations

759233

12
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

1647
citing authors

#	ARTICLE	IF	CITATIONS
1	<p>Physical Review Letters, 2020, 125, 247002.</p> <p>The relation of local order to material properties in relaxor ferroelectrics. Nature Materials, 2018, 17, 718-724.</p> <p>Double-Q spin-density wave in iron arsenide superconductors. Nature Physics, 2016, 12, 493-498.</p> <p>Two-dimensional overdamped fluctuations of the soft perovskite lattice in CsPbBr₃. Nature Materials, 2021, 20, 977-983.</p> <p>Enhanced superconductivity and ferroelectric quantum criticality in plastically deformed strontium titanate. Nature Materials, 2022, 21, 54-61.</p> <p>Structural and magnetic phase transitions in $\text{Ca}_{1-x}\text{Sr}_x\text{FeAs}_2$ electron-overdoped FeAs layers. Physical Review B, 2016, 93, .</p>	7.8	468
2	Reciprocal space imaging of ionic correlations in intercalation compounds. Nature Materials, 2020, 19, 63-68.	27.5	113
3	Charge Density Wave in the New Polymorphs of $\text{RE}_2\text{Ru}_3\text{Ge}_5$ ($\text{RE} = \text{Pr, Sm, Dy}$). Journal of the American Chemical Society, 2017, 139, 4130-4143.	13.7	33
4	Intertwined density waves in a metallic nickelate. Nature Communications, 2020, 11, 6003.	12.8	24
5	Electrical transport, magnetic, and thermodynamic properties of La-, Pr-, and Nd-doped BaSn_2O_3 single crystals. Physical Review Materials, 2018, 2, .	2.4	20
6	High pO ₂ Floating Zone Crystal Growth of the Perovskite Nickelate PrNiO ₃ . Crystals, 2019, 9, 324.	2.2	15
7	Harnessing interpretable and unsupervised machine learning to address big data from modern X-ray diffraction. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
8	Incommensurate magnetic orders and topological Hall effect in the square-net centrosymmetric EuGa_2 system. Physical Review Materials, 2022, 6, .	2.4	12
9	The Subchalcogenides $\text{Ir}_2\text{In}_8\text{Q}$ (Q = S, Se, Te): Dirac Semimetal Candidates with Re-entrant Structural Modulation. Journal of the American Chemical Society, 2020, 142, 6312-6323.	13.7	11
10	Order-Disorder Transitions in $\text{Ca}_x\text{Fe}_{1-x}\text{As}_2$. Physical Review Letters, 2022, 128, 095701.	7.8	5
11	Oxygen Inhomogeneity and Reversibility in Single Crystal LaNiO_3 . Crystals, 2020, 10, 557.	2.2	6
12	Fragile 3D Order in $\text{Ca}_x\text{Fe}_{1-x}\text{As}_2$. Physical Review B, 2019, 100, .	3.2	4
13	Acoustic phonon dispersion and diffuse scattering across the valence transition of $\text{Ca}_x\text{Fe}_{1-x}\text{As}_2$. Physical Review B, 2019, 100, .	3.2	4

#	ARTICLE	IF	CITATIONS
19	APS: High-Energy X-rays Expediting Applied and Fundamental Research. Synchrotron Radiation News, 2020, 33, 44-50.	0.8	4
20	Competing Charge/Spin-Stripe and Correlated Metal Phases in Trilayer Nickelates (Pr _{1-x} La _x) ₄ Ni ₃ O ₈ . Chemistry of Materials, 2022, 34, 4560-4567.	6.7	4
21	Single Crystal Growth of Relaxor Ferroelectric Ba ₂ PrFeNb ₄ O ₁₅ by the Optical Floating Zone Method. Crystal Growth and Design, 2019, 19, 7249-7256.	3.0	3
22	Geometric Frustration Suppresses Long-Range Structural Distortions in Nb _x V _{1-x} O ₂ . Journal of Physical Chemistry C, 2022, 126, 2049-2061.	3.1	2
23	Making sense of vacancy correlations with single-crystal diffuse scattering data. IUCrJ, 2020, 7, 579-580.	2.2	0