Matthew J Krogstad

List of Publications by Year
in descending order

23	1,047	759233 12	642732 23
papers	citations	h-index	g-index

25	25	25	1647
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced superconductivity and ferroelectric quantum criticality in plastically deformed strontium titanate. Nature Materials, 2022, 21, 54-61.	27.5	41
2	Geometric Frustration Suppresses Long-Range Structural Distortions in Nb_xV_{1â€“x}O₂. Journal of Physical Chemistry C, 2022, 126, 2049-2061.	3.1	2
3	Order-Disorder Transitions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mrow><mml:msub><mml:mrow><mml:mi>Ca</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow><mml:mo stretchy="false">)</mml:mo></mml:mrow></mml:math>MnO3. Physical Review Letters, 2022, 128, 095701.	7.8	7
4	Competing Charge/Spin-Stripe and Correlated Metal Phases in Trilayer Nickelates (Pr_{1â€“x}La_x)₄Ni₃O₈. Chemistry of Materials, 2022, 34, 4560-4567.	6.7	4
5	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
6	Incommensurate magnetic orders and topological Hall effect in the square-net centrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>EuGa</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> system. Physical Review Materials, 2022, 6, .	2.4	12
7	Two-dimensional overdamped fluctuations of the soft perovskite lattice in CsPbBr3. Nature Materials, 2021, 20, 977-983.	27.5	89
8	Fragile 3D Order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">V</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>â€“</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:mrow></mml:math> Physical Review Letters, 2021, 127, 125501.	7.8	5
9	Reciprocal space imaging of ionic correlations in intercalation compounds. Nature Materials, 2020, 19, 63-68.	27.5	34
10	Intertwined density waves in a metallic nickelate. Nature Communications, 2020, 11, 6003.	12.8	24
11	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Cs</mml:mi><mml:msub><mml:mrow><mml:mi mathvariant="normal">V</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:msub><mml:mrow><mml:mi>Sb</mml:mi></mml:mrow><mml:mrow><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:mrow></mml:math> : A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review Letters, 2020, 125, 247002.	7.8	468
12	The Subchalcogenides Ir₂In₈Q (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
13	Oxygen Inhomogeneity and Reversibility in Single Crystal LaNiO3â^Î´. Crystals, 2020, 10, 557.	2.2	6
14	Making sense of vacancy correlations with single-crystal diffuse scattering data. IUCrJ, 2020, 7, 579-580.	2.2	0
15	APS: High-Energy X-rays Expediting Applied and Fundamental Research. Synchrotron Radiation News, 2020, 33, 44-50.	0.8	4
16	Acoustic phonon dispersion and diffuse scattering across the valence transition of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn>	3.2	4
17	Physical Review B, 2019, 100, . High pO2 Floating Zone Crystal Growth of the Perovskite Nickelate PrNiO3. Crystals, 2019, 9, 324.	2.2	15
18	Single Crystal Growth of Relaxor Ferroelectric Ba₂PrFeNb₄O₁₅ by the Optical Floating Zone Method. Crystal Growth and Design, 2019, 19, 7249-7256.	3.0	3

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19	The relation of local order to material properties in relaxor ferroelectrics. Nature Materials, 2018, 17, 718-724.	27.5	113
20	Electrical transport, magnetic, and thermodynamic properties of La-, Pr-, and Nd-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaSn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>â^'</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></ single crystals. Physical Review Materials, 2018, 2, .	2.4	20
21	Charge Density Wave in the New Polymorphs of RE₂Ru₃Ge₅ (RE = Pr, Sm, Dy). Journal of the American Chemical Society, 2017, 139, 4130-4143.	13.7	33
22	Structural and magnetic phase transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mrow><mml:mn>0.73</ electron-overdoped FeAs layers. Physical Review B, 2016, 93, .	3.2	34
23	Double-Q spin-density wave in iron arsenideÂsuperconductors. Nature Physics, 2016, 12, 493-498.	16.7	101