

Katerina P Hilleke

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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citations

1162889

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1281743

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g-index

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docs citations

11
times ranked

169
citing authors

#	ARTICLE	IF	CITATIONS
1	The XtalOpt Evolutionary Algorithm for Crystal Structure Prediction. Journal of Physical Chemistry C, 2021, 125, 1601-1620.	1.5	42
2	Tuning chemical precompression: Theoretical design and crystal chemistry of novel hydrides in the quest for warm and light superconductivity at ambient pressures. Journal of Applied Physics, 2022, 131, .	1.1	33
3	Discerning Chemical Pressure amidst Weak Potentials: Vibrational Modes and Dumbbell/Atom Substitution in Intermetallic Aluminides. Journal of Physical Chemistry A, 2018, 122, 8412-8426.	1.1	31
4	Substitution Patterns Understood through Chemical Pressure Analysis: Atom/Dumbbell and Ru/Co Ordering in Derivatives of YCo ₅ . Crystal Growth and Design, 2017, 17, 1610-1619.	1.4	16
5	Materials under high pressure: a chemical perspective. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	15
6	Principles of weakly ordered domains in intermetallics: the cooperative effects of atomic packing and electronics in Fe ₂ Al ₅ . Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 297-306.	0.0	12
7	RbB ₃ Si ₃ : An Alkali Metal Borosilicide that is Metastable and Superconducting at 1 atm. Journal of Physical Chemistry C, 2020, 124, 14826-14831.	1.5	9
8	Dilute carbon in H3S under pressure. Npj Computational Materials, 2022, 8, .	3.5	9
9	Structural motifs and bonding in two families of boron structures predicted at megabar pressures. Physical Review Materials, 2021, 5, .	0.9	8
10	Pressure-Induced Superconductivity in the Wide-Band-Gap Semiconductor Cu ₂ Br ₂ Se ₆ with a Robust Framework. Chemistry of Materials, 2020, 32, 6237-6246.	3.2	6
11	Structural Plasticity in the Frank-Kasper Realm: Chemical Pressure Roles of the $\frac{1}{4}$ and $\frac{1}{2}$ Phase Units in the Mo [~] Fe [~] Cr System. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 64-74.	0.6	5