

# Katerina P Hilleke

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9251247/publications.pdf>

Version: 2024-02-01

11  
papers

186  
citations

1162889

8  
h-index

1281743

11  
g-index

11  
all docs

11  
docs citations

11  
times ranked

169  
citing authors

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