

# Weizhao Cai

## List of Publications by Year in descending order

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28  
papers

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citations

567144

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526166

27  
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28  
docs citations

28  
times ranked

1138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-induced ferroelectric-like transition creates a polar metal in defect antiperovskites Hg <sub>3</sub> Te <sub>2</sub> X <sub>2</sub> (X = Cl, Br). <i>Nature Communications</i> , 2021, 12, 1509.	5.8	14
2	Fermi surface studies of the low-temperature structure of sodium. <i>Physical Review B</i> , 2020, 101, .	1.1	5
3	Large negative linear compressibility of a porous molecular co-crystal. <i>Chemical Communications</i> , 2020, 56, 4324-4327.	2.2	11
4	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
5	Perovskites with a Twist: Strong In <sup>1+</sup> Off-Centering in the Mixed-Valent CsInX <sub>3</sub> (X = Cl, Br). <i>Chemistry of Materials</i> , 2019, 31, 9554-9566.	3.2	22
6	Pressure-Induced Superconductivity and Flattened Se <sub>6</sub> Rings in the Wide Band Gap Semiconductor Cu <sub>2</sub> I <sub>2</sub> Se <sub>6</sub> . <i>Journal of the American Chemical Society</i> , 2019, 141, 15174-15182.	6.6	9
7	Negative area compressibility of a hydrogen-bonded two-dimensional material. <i>Chemical Science</i> , 2019, 10, 1309-1315.	3.7	24
8	Parallel background subtraction in diamond anvil cells for high pressure X-ray data analysis. <i>High Pressure Research</i> , 2019, 39, 628-639.	0.4	2
9	Jahn-Teller Effect on Framework Flexibility of Hybrid Organic-Inorganic Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 751-755.	2.1	47
10	Piezochromism and structural and electronic properties of benz[a]anthracene under pressure. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6216-6223.	1.3	19
11	Deuterium Isotope Effects in Polymerization of Benzene under Pressure. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1856-1864.	2.1	12
12	Evidence from Fermi surface analysis for the low-temperature structure of lithium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5389-5394.	3.3	22
13	Quantum and isotope effects in lithium metal. <i>Science</i> , 2017, 356, 1254-1259.	6.0	59
14	Reply to Martinez-Canales et al.: The structure(s) of lithium at low temperatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8810-E8811.	3.3	1
15	Effects of Nonhydrostatic Stress on Structural and Optoelectronic Properties of Methylammonium Lead Bromide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3457-3465.	2.1	53
16	High-Pressure Crystallizations of <i>meta</i> -Dichlorobenzene and Dibromobenzene and Their Solid Solutions. <i>Crystal Growth and Design</i> , 2016, 16, 6304-6309.	1.4	8
17	Giant Negative Area Compressibility Tunable in a Soft Porous Framework Material. <i>Journal of the American Chemical Society</i> , 2015, 137, 9296-9301.	6.6	103
18	Boundaries for martensitic transition of 7Li under pressure. <i>Nature Communications</i> , 2015, 6, 8030.	5.8	16

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19	Wallach's Rule Enforced by Pressure in Mandelic Acid. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4309-4313.	1.5	24
20	Anomalous compression of a weakly CH <sub>2</sub> O bonded nonlinear optical molecular crystal. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6471-6476.	2.7	23
21	Giant negative linear compression positively coupled to massive thermal expansion in a metal-organic framework. <i>Nature Communications</i> , 2014, 5, 4337.	5.8	160
22	Pressure Effect on dl-Mandelic Acid Racemate Crystallization. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7279-7285.	1.5	27
23	Structure of the high-pressure phase IV of KH <sub>2</sub> PO <sub>4</sub> (KDP). <i>Dalton Transactions</i> , 2013, 42, 863-866.	1.6	24
24	Conformationally Assisted Negative Area Compression in Methyl Benzoate. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21460-21465.	1.5	17
25	Pressure effects on H-ordering in hydrogen bonds and interactions in benzoic acid. <i>CrystEngComm</i> , 2012, 14, 4420.	1.3	28
26	Enantiomeric crystallization of (±)-trans-1,2-diaminocyclohexane under pressure. <i>CrystEngComm</i> , 2011, 13, 6742.	1.3	13
27	Syntheses, Structure, Physical Properties, and Electronic Structures of DyCuxAl <sub>12-x</sub> (4.0 ≤ x ≤ 6.0). <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3978-3983.	1.0	0
28	Syntheses, Structures, and Theoretical Studies of New Ternary Antimonides $\text{RE}_2\text{CoSb}_3$ (RE = La, Nd, Sm). <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 230-237.	1.0	10