

# Wendy L Mao

## List of Publications by Year in descending order

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31  
papers

1,659  
citations

430874

18  
h-index

477307

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2917  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Pressure Single-Crystal Structures of 3D Lead-Halide Hybrid Perovskites and Pressure Effects on their Electronic and Optical Properties. ACS Central Science, 2016, 2, 201-209.	11.3	357
2	Pressure induced metallization with absence of structural transition in layered molybdenum diselenide. Nature Communications, 2015, 6, 7312.	12.8	193
3	Pressure-Induced Metallization of the Halide Perovskite (CH <sub>3</sub> NH <sub>3</sub> )PbI <sub>3</sub> . Journal of the American Chemical Society, 2017, 139, 4330-4333.	13.7	157
4	Fractal atomic-level percolation in metallic glasses. Science, 2015, 349, 1306-1310.	12.6	114
5	Pressure-Induced Emission (PIE) and Phase Transition of a Two-dimensional Halide Double Perovskite (BA) <sub>4</sub> AgBiBr <sub>8</sub> (BA=CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> NH <sub>3</sub> <sup>+</sup> ). Angewandte Chemie - International Edition, 2019, 58, 15249-15253.	13.8	105
6	Preserving a robust CsPbI <sub>3</sub> perovskite phase via pressure-directed octahedral tilt. Nature Communications, 2021, 12, 461.	12.8	90
7	Sterically controlled mechanochemistry under hydrostatic pressure. Nature, 2018, 554, 505-510.	27.8	71
8	Universal Fractional Noncubic Power Law for Density of Metallic Glasses. Physical Review Letters, 2014, 112, 185502.	7.8	64
9	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. Nature Electronics, 2021, 4, 653-663.	26.0	61
10	General 2.5 power law of metallic glasses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1714-1718.	7.1	50
11	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. Nano Letters, 2017, 17, 7761-7766.	9.1	46
12	Three-Dimensional Coherent X-Ray Diffraction Imaging of Molten Iron in Mantle Olivine at Nanoscale Resolution. Physical Review Letters, 2013, 110, 205501.	7.8	45
13	Evidence for photo-induced monoclinic metallic VO <sub>2</sub> under high pressure. Applied Physics Letters, 2014, 104, .	3.3	42
14	Pressure-Induced Emission (PIE) and Phase Transition of a Two-dimensional Halide Double Perovskite (BA) <sub>4</sub> AgBiBr <sub>8</sub> (BA=CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> NH <sub>3</sub> <sup>+</sup> ). Angewandte Chemie, 2019, 131, 15393-15397.	2.0	36
15	Tuning Optical and Electronic Properties in Low-Toxicity Organic-Inorganic Hybrid (CH <sub>3</sub> NH <sub>3</sub> ) <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> under High Pressure. Journal of Physical Chemistry Letters, 2019, 10, 1676-1683.	4.6	35
16	Tuning the crystal structure and electronic states of Ag <sub>2</sub> Te. Structural transitions and metallization under pressure. Physical Review B, 2014, 89, .	12.4	24
17	High Compression-Induced Conductivity in a Layered CuBr Perovskite. Angewandte Chemie - International Edition, 2020, 59, 4017-4022.	13.8	23
18	High-pressure Raman spectroscopy of phase change materials. Applied Physics Letters, 2013, 103, .	3.3	21

#	ARTICLE	IF	CITATIONS
19	Pressure-induced excimer formation and fluorescence enhancement of an anthracene derivative. <i>Journal of Materials Chemistry C</i> , 2021, 9, 934-938.	5.5	20
20	Five-dimensional visualization of phase transition in BiNiO <sub>3</sub> under high pressure. <i>Applied Physics Letters</i> , 2014, 104, 043108.	3.3	18
21	Novel pressure-induced phase transitions in Co <sub>3</sub> O <sub>4</sub> . <i>Applied Physics Letters</i> , 2013, 102, .	3.3	14
22	Structural transition and amorphization in compressed $\text{Sb}_2\text{O}_3$ . <i>Physical Review B</i> , 2015, 91, .	3.2	14
23	A Novel Phase of $\text{Li}_{15}\text{Si}_4$ Synthesized under Pressure. <i>Advanced Energy Materials</i> , 2015, 5, 1500214.	19.5	14
24	Pressure-induced behavior of the hydrogen-dominant compound $\text{SiH}_4(\text{H}_2)_2$ from first-principles calculations. <i>Physical Review B</i> , 2010, 82, .	3.2	13
25	Revealing Local Disorder in a Silver-Bismuth Halide Perovskite upon Compression. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 532-536.	4.6	11
26	High Compression-Induced Conductivity in a Layered $\text{CuBr}$ Perovskite. <i>Angewandte Chemie</i> , 2020, 132, 4046-4051.	2.0	7
27	High Pressure Raman and X-ray Diffraction Study of [121] Tetramantane. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7683-7689.	3.1	6
28	Compressed hydrogen heats up. <i>Nature Materials</i> , 2015, 14, 466-468.	27.5	4
29	The structure and unconventional dihydrogen bonding of a pressure-stabilized hydrogen-rich $(\text{NH}_3\text{BH}_3)(\text{H}_2)_x$ ( $x = 1.5$ ) compound. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7111-7117.	10.3	4
30	Local Disorder in a Silver-Bismuth Halide Perovskite. , 0, , .		0
31	Elucidation of Structural and Electronic Property Relationships in Hybrid Materials with High Pressure. , 0, , .		0