Yang Ding

List of Publications by Year
in descending order

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40	1,959	304368 22	288905 40
papers	citations	h-index	g-index

40	40	40	2682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solids, liquids, and gases under high pressure. Reviews of Modern Physics, 2018, 90, .	16.4	337
2	Long-Range Topological Order in Metallic Glass. Science, 2011, 332, 1404-1406.	6.0	177
3	Long-Range Ordered Carbon Clusters: A Crystalline Material with Amorphous Building Blocks. Science, 2012, 337, 825-828.	6.0	173
4	Origin of Pressure-Induced Polyamorphism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ce</mml:mi><mml:mn>75</mml:mn></mml:msub><mml:msub><mml:mi>Al</mml:mi><mml:m Glass. Physical Review Letters, 2010, 104, 105702.	2.9	131
5	Structural Phase Transition of Vanadium at 69ÂGPa. Physical Review Letters, 2007, 98, 085502.	2.9	115
6	Size-Dependent Amorphization of Nanoscale<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">Y</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>at High Pressure. Physical Review Letters, 2010, 105, 095701.	2.9	100
7	Novel Pressure-Induced Magnetic Transition in Magnetite (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 517 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>). Physical Review Letters, 2008, 100, 045508.	2.9	86
8	Rhodium dihydride (RhH₂) with high volumetric hydrogen density. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18618-18621.	3.3	78
9	High-pressure induced phase transitions of Y2O3 and Y2O3:Eu3+. Applied Physics Letters, 2009, 94, .	1.5	74
10	Rietveld refinement study of the pressure dependence of the internal structural parameteruin the wurtzite phase of ZnO. Physical Review B, 2005, 71, .	1.1	71
11	Pressure-Induced Magnetic Transition in Manganite (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 352 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ca</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Mn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>). Physical Review Letters, 2008, 100, 236401.	2.9	62
12	Novel High-Pressure Monoclinic Metallic Phase of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">V</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:m mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: Physical Review Letters, 2014, 112, 056401.	2.9	53
13	Unusual lattice dynamics of vanadium under high pressure. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16428-16431.	3.3	46
14	Substitutional alloy of Ce and Al. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2515-2518.	3.3	43
15	Distortions and stabilization of simple-cubic calcium at high pressure and low temperature. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9965-9968.	3.3	38
16	Pressure-Regulated Dynamic Stereochemical Role of Lone-Pair Electrons in Layered Bi₂O₂S. Journal of Physical Chemistry Letters, 2020, 11, 9702-9707.	2.1	37
17	Pressure-Induced Confined Metal from the Mott Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mml:mrow>. Physical Review Letters, 2016, 116, 216402.	2.9	36
18	Pressure-induced phase transition in the AlCoCrFeNi high-entropy alloy. Scripta Materialia, 2019, 161, 88-92.	2.6	33

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19	Nanoprobe measurements of materials at megabar pressures. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6140-6145.	3.3	32
20	Electronic Structure of Crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math>at High Pressures. Physical Review Letters, 2010, 105, 186404.	2.9	26
21	Variable pressure-temperature neutron diffraction of wÃ¼stite (Fe1âˆ’xO): Absence of long-range magnetic order to 20GPa. Applied Physics Letters, 2005, 86, 052505.	1.5	24
22	High-pressure neutron diffraction studies at LANSCE. Applied Physics A: Materials Science and Processing, 2010, 99, 585-599.	1.1	24
23	Calcium with the Â-tin structure at high pressure and low temperature. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16459-16462.	3.3	23
24	Novel Superstructure-Phase Two-Dimensional Material 1T-VSe2 at High Pressure. Journal of Physical Chemistry Letters, 2020, 11, 380-386.	2.1	17
25	Pressure-induced long-range magnetic ordering in cobalt oxide. Physical Review B, 2006, 74, .	1.1	16
26	Electronic dynamics and plasmons of sodium under compression. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20434-20437.	3.3	16
27	Crystallography of low Z material at ultrahigh pressure: Case study on solid hydrogen. Matter and Radiation at Extremes, 2020, 5, .	1.5	15
28	Zone-axis x-ray diffraction of single-crystalFe1âˆ’xOunder pressure. Physical Review B, 2005, 72, .	1.1	13
29	Lattice frustration in spin-orbit Mott insulator Sr3Ir2O7 at high pressure. Npj Quantum Materials, 2019, 4, .	1.8	12
30	Zone-axis diffraction study of pressure-induced inhomogeneity in single-crystal Fe1âˆ’xO. Applied Physics Letters, 2005, 87, 041912.	1.5	10
31	Probing Cerium 4f States across the Volume Collapse Transition by X-ray Raman Scattering. Journal of Physical Chemistry Letters, 2019, 10, 7890-7897.	2.1	8
32	Spin-ordering mediated orbital hybridization in CoO at high pressures. Physical Review B, 2012, 86, .	1.1	6
33	Nanoscale diffraction imaging of the high-pressure transition in Fe1âˆ’xO. Applied Physics Letters, 2012, 100, .	1.5	6
34	Probing the Electronic Band Gap of Solid Hydrogen by Inelastic X-Ray Scattering up to 90ÂGPa. Physical Review Letters, 2021, 126, 036402.	2.9	6
35	Evolution of a Novel Ribbon Phase in Optimally Doped Bi₂Sr₂CaCu₂O_{8+Î´} at High Pressure and Its Implication to High-T_C Superconductivity. Journal of Physical Chemistry Letters, 2018, 9, 4182-4188.	2.1	4
36	Determining thermal diffuse scattering of vanadium with x-ray transmission scattering. Applied Physics Letters, 2006, 88, 061903.	1.5	3

#	Article	IF	Citations
37	Investigation of non-local screening in K-edge XANES for Pr0.67Sr0.33MnO3 under high pressure. Journal of Alloys and Compounds, 2019, 792, 108-115.	2.8	3
38	Studying single nanocrystals under high pressure using an x-ray nanoprobe. Review of Scientific Instruments, 2011, 82, 043903.	0.6	2
39	Pressure-induced and flaring photocatalytic diversity of ZnO particles hallmarked by finely tuned pathways. Journal of Alloys and Compounds, 2022, 894, 162444.	2.8	2
40	Quenchable amorphous glass-like material from VF₃. Dalton Transactions, 2021, 50, 3005-3010.	1.6	1