

Yang Ding

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

1,567
citations

19
h-index

39
g-index

40
ext. papers

1,774
ext. citations

8.4
avg, IF

4.25
L-index

#	Paper	IF	Citations
40	Solids, liquids, and gases under high pressure. <i>Reviews of Modern Physics</i> , 2018 , 90,	40.5	216
39	Long-range topological order in metallic glass. <i>Science</i> , 2011 , 332, 1404-6	33.3	152
38	Long-range ordered carbon clusters: a crystalline material with amorphous building blocks. <i>Science</i> , 2012 , 337, 825-8	33.3	137
37	Origin of pressure-induced polyamorphism in Ce ₇₅ Al ₂₅ metallic glass. <i>Physical Review Letters</i> , 2010 , 104, 105702	7.4	112
36	Structural phase transition of vanadium at 69 GPa. <i>Physical Review Letters</i> , 2007 , 98, 085502	7.4	96
35	Size-dependent amorphization of nanoscale Y ₂ O ₃ at high pressure. <i>Physical Review Letters</i> , 2010 , 105, 095701	7.4	87
34	Rhodium dihydride (RhH ₂) with high volumetric hydrogen density. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18618-21	11.5	72
33	High-pressure induced phase transitions of Y ₂ O ₃ and Y ₂ O ₃ :Eu ³⁺ . <i>Applied Physics Letters</i> , 2009 , 94, 061921	7.4	69
32	Novel pressure-induced magnetic transition in magnetite (Fe ₃ O ₄). <i>Physical Review Letters</i> , 2008 , 100, 045508	7.4	66
31	Rietveld refinement study of the pressure dependence of the internal structural parameter u in the wurtzite phase of ZnO. <i>Physical Review B</i> , 2005 , 71,	3.3	63
30	Pressure-induced magnetic transition in manganite (La _{0.75} Ca _{0.25} MnO ₃). <i>Physical Review Letters</i> , 2009 , 102, 237201	7.4	60
29	Novel high-pressure monoclinic metallic phase of V ₂ O ₃ . <i>Physical Review Letters</i> , 2014 , 112, 056401	7.4	45
28	Substitutional alloy of Ce and Al. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2515-8	11.5	37
27	Unusual lattice dynamics of vanadium under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 16428-31	11.5	37
26	Distortions and stabilization of simple-cubic calcium at high pressure and low temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9965-8	11.5	36
25	Nanoprobe measurements of materials at megabar pressures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6140-5	11.5	29
24	Pressure-Induced Confined Metal from the Mott Insulator Sr ₃ Ir ₂ O ₇ . <i>Physical Review Letters</i> , 2016 , 116, 216402	7.4	28

23	Pressure-induced phase transition in the AlCoCrFeNi high-entropy alloy. <i>Scripta Materialia</i> , 2019 , 161, 88-92	5.6	28
22	High-pressure neutron diffraction studies at LANSCE. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 99, 585-599	2.6	23
21	Variable pressure-temperature neutron diffraction of wüstite (Fe _{1-x} O): Absence of long-range magnetic order to 20GPa. <i>Applied Physics Letters</i> , 2005 , 86, 052505	3.4	19
20	Calcium with the $\sqrt{2}$ structure at high pressure and low temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16459-62	11.5	18
19	Electronic structure of crystalline 4He at high pressures. <i>Physical Review Letters</i> , 2010 , 105, 186404	7.4	17
18	Electronic dynamics and plasmons of sodium under compression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20434-7	11.5	16
17	Pressure-induced long-range magnetic ordering in cobalt oxide. <i>Physical Review B</i> , 2006 , 74,	3.3	15
16	Pressure-Regulated Dynamic Stereochemical Role of Lone-Pair Electrons in Layered BiOS. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9702-9707	6.4	14
15	Crystallography of low Z material at ultrahigh pressure: Case study on solid hydrogen. <i>Matter and Radiation at Extremes</i> , 2020 , 5, 038401	4.7	11
14	Zone-axis x-ray diffraction of single-crystal Fe _{1-x} O under pressure. <i>Physical Review B</i> , 2005 , 72,	3.3	11
13	Novel Superstructure-Phase Two-Dimensional Material 1-VSe at High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 380-386	6.4	11
12	Lattice frustration in spin-orbit Mott insulator Sr ₃ Ir ₂ O ₇ at high pressure. <i>Npj Quantum Materials</i> , 2019 , 4,	5	9
11	Zone-axis diffraction study of pressure-induced inhomogeneity in single-crystal Fe _{1-x} O. <i>Applied Physics Letters</i> , 2005 , 87, 041912	3.4	8
10	Spin-ordering mediated orbital hybridization in CoO at high pressures. <i>Physical Review B</i> , 2012 , 86,	3.3	5
9	Nanoscale diffraction imaging of the high-pressure transition in Fe _{1-x} O. <i>Applied Physics Letters</i> , 2012 , 100, 041903	3.4	5
8	Evolution of a Novel Ribbon Phase in Optimally Doped BiSrCaCuO at High Pressure and Its Implication to High- T Superconductivity. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4182-4188	6.4	3
7	Determining thermal diffuse scattering of vanadium with x-ray transmission scattering. <i>Applied Physics Letters</i> , 2006 , 88, 061903	3.4	3
6	Investigation of non-local screening in K-edge XANES for Pr _{0.67} Sr _{0.33} MnO ₃ under high pressure. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 108-115	5.7	2

5	Studying single nanocrystals under high pressure using an x-ray nanoprobe. <i>Review of Scientific Instruments</i> , 2011 , 82, 043903	1.7	2
4	Probing Cerium 4 States across the Volume Collapse Transition by X-ray Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7890-7897	6.4	2
3	Probing the Electronic Band Gap of Solid Hydrogen by Inelastic X-Ray Scattering up to 90 GPa. <i>Physical Review Letters</i> , 2021 , 126, 036402	7.4	2
2	Quenchable amorphous glass-like material from VF. <i>Dalton Transactions</i> , 2021 , 50, 3005-3010	4.3	1
1	Pressure-induced and flaring photocatalytic diversity of ZnO particles hallmarked by finely tuned pathways. <i>Journal of Alloys and Compounds</i> , 2022 , 894, 162444	5.7	0