

Pei Wang

List of Publications by Year in Descending Order

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Version: 2024-04-24

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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.

29
papers

300
citations

11
h-index

16
g-index

31
ext. papers

379
ext. citations

3.8
avg, IF

2.77
L-index

#	Paper	IF	Citations
29	Concurrent Pressure-Induced Spin-State Transitions and Jahn-Teller Distortions in MnTe. <i>Chemistry of Materials</i> , 2022 , 34, 3931-3940	9.6	1
28	Orientation Dependent Mechanical Responses and Plastic Deformation Mechanisms of ZnSe Nano Films under Nanoindentation. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
27	High-Pressure and High-Temperature Synthesis and In Situ High-Pressure Synchrotron X-ray Diffraction Study of HfSi. <i>Inorganic Chemistry</i> , 2021 , 60, 15215-15222	5.1	0
26	Pressure Controls the Structure and Nonlinear Optical Properties of Piezochromic CdTeMoO6. <i>Chemistry of Materials</i> , 2021 , 33, 2929-2936	9.6	5
25	Novel Nitride Materials Synthesized at High Pressure. <i>Crystals</i> , 2021 , 11, 614	2.3	2
24	Sound Velocities, Elasticity, and Mechanical Properties of Stoichiometric Submicron Polycrystalline EMoN at High Pressure. <i>Inorganic Chemistry</i> , 2021 , 60, 11897-11906	5.1	0
23	Structural and Physical Properties of ZrSi under High Pressure: Experimental Study and First-Principles Calculations. <i>Inorganic Chemistry</i> , 2019 , 58, 405-410	5.1	4
22	Hardness and thermal stability enhancement of polycrystalline diamond compact through additive hexagonal boron nitride. <i>Scripta Materialia</i> , 2018 , 149, 1-5	5.6	20
21	Superstrong micro-grained polycrystalline diamond compact through work hardening under high pressure. <i>Applied Physics Letters</i> , 2018 , 112, 061901	3.4	16
20	Vanadium Diboride (VB) Synthesized at High Pressure: Elastic, Mechanical, Electronic, and Magnetic Properties and Thermal Stability. <i>Inorganic Chemistry</i> , 2018 , 57, 1096-1105	5.1	39
19	Pressure-induced structural and electronic transitions, metallization, and enhanced visible-light responsiveness in layered rhenium disulphide. <i>Physical Review B</i> , 2018 , 97,	3.3	18
18	Anomalous compression behavior of ~12 nm nanocrystalline TiO2. <i>Journal of Applied Physics</i> , 2017 , 121, 215109	2.5	4
17	Elastic, magnetic and electronic properties of iridium phosphide Ir2P. <i>Scientific Reports</i> , 2016 , 6, 21787	4.9	14
16	High pressure infiltration sintering behavior of WC-Co alloys. <i>High Pressure Research</i> , 2016 , 36, 585-594	1.6	4
15	Microstructural and mechanical properties of cBN-Si composites prepared from the high pressure infiltration method. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016 , 61, 1-5	4.1	11
14	Submicron cubic boron nitride as hard as diamond. <i>Applied Physics Letters</i> , 2015 , 106, 121901	3.4	26
13	Diamond-cBN alloy: A universal cutting material. <i>Applied Physics Letters</i> , 2015 , 107, 101901	3.4	23

12	Preparation of ZrO ₂ whiskers through high pressure and high temperature method. <i>Solid State Sciences</i> , 2015 , 41, 52-55	3.4	11
11	High pressure infiltration sintering of cBN/Si composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015 , 50, 247-252	4.1	5
10	Unusual compression behavior of nanocrystalline CeO ₂ . <i>Scientific Reports</i> , 2014 , 4, 4441	4.9	18
9	Pressure transmitting medium-dependent structure stability of nanoanatase TiO ₂ under high pressure. <i>High Pressure Research</i> , 2014 , 34, 259-265	1.6	6
8	Anomalous pressure-induced phase transformation in nano-crystalline erbium sesquioxide (Er ₂ O ₃): partial amorphization under compression. <i>High Pressure Research</i> , 2014 , 34, 70-77	1.6	7
7	Synthesis of novel superhard materials under ultrahigh pressure. <i>Science Bulletin</i> , 2014 , 59, 5251-5257		9
6	Exploring the behavior of molybdenum diboride (MoB ₂): A high pressure x-ray diffraction study. <i>Journal of Applied Physics</i> , 2014 , 115, 163502	2.5	14
5	High-pressure x-ray diffraction study of YBO ₃ /Eu ³⁺ , GdBO ₃ , and EuBO ₃ : Pressure-induced amorphization in GdBO ₃ . <i>Journal of Applied Physics</i> , 2014 , 115, 043507	2.5	7
4	High pressure and high temperature study the phase transitions of BiNbO ₄ . <i>Solid State Communications</i> , 2013 , 156, 21-24	1.6	24
3	The synthesis of ZnP ₄ based on liquid-solid reaction under high pressure and temperature. <i>Solid State Sciences</i> , 2013 , 21, 51-53	3.4	5
2	High-pressure synthesis and in-situ high pressure x-ray diffraction study of cadmium tetraphosphide. <i>Journal of Applied Physics</i> , 2013 , 113, 053507	2.5	5
1	Cadmium phosphide, Cd ₇ P ₁₀ , prepared at high pressures. <i>High Pressure Research</i> , 2012 , 1-7	1.6	1