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List of articles citing

**Superhard materials with low elastic moduli:
Three-dimensional covalent bonding as the origin of
superhardness in B₆O**

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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.

#	Paper	IF	Citations
54	Mechanical properties and hardness of boron and boron-rich solids. <i>Journal of Superhard Materials</i> , 2011 , 33, 409-420	0.9	41
53	Stability and strength of transition-metal tetraborides and triborides. <i>Physical Review Letters</i> , 2012 , 108, 255502	7.4	124
52	A pseudo-tetragonal phase of superhard B8C16(N6CO). <i>Computational Materials Science</i> , 2012 , 62, 55-59	3.2	4
51	First-principles study of hypothetical boron crystals: Bn (n = 3, 14, 15). <i>Solid State Sciences</i> , 2012 , 14, 1636-1642	3.4	12
50	A thermodynamic criterion for designing superhard transition-metal borides with ultimate boron content. <i>Computational Materials Science</i> , 2013 , 68, 222-228	3.2	38
49	Ab initio studies of novel carbon nitride phase C2N2(CH2). <i>Chemical Physics</i> , 2013 , 415, 36-43	2.3	13
48	Phase stability and elastic properties of chromium borides with various stoichiometries. <i>ChemPhysChem</i> , 2013 , 14, 1245-55	3.2	16
47	The structural and elastic properties of TMB4(TM = V, Cr, Mn) under pressure: A first-principles study. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450202	1.1	1
46	Anisotropic elasticity and abnormal Poisson's ratios in super-hard materials. <i>AIP Advances</i> , 2014 , 4, 127116	5.5	3
45	Elastic anisotropy and shear-induced atomistic deformation of tetragonal silicon carbon nitride. <i>Journal of Applied Physics</i> , 2014 , 116, 023509	2.5	0
44	Shear amorphization of boron suboxide. <i>Scripta Materialia</i> , 2014 , 76, 9-12	5.6	36
43	Metallization and softening of B6O at high pressure. <i>Journal of Alloys and Compounds</i> , 2014 , 600, 71-77	5.7	4
42	Comparative nanoindentation of single crystals of hard and superhard oxides. <i>Journal of Superhard Materials</i> , 2014 , 36, 217-230	0.9	17
41	Bond deformation paths and electronic instabilities of ultraincompressible transition metal diborides: Case study of OsB2 and IrB2. <i>Physical Review B</i> , 2014 , 90,	3.3	19
40	Mechanical properties of MgRE (RE = Sc, Y, Gd) solid solutions: first-principles determination. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 055017	2	10
39	Carbon Doping in Boron Suboxide: Structure, Energetics, and Elastic Properties. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2223-2233	3.8	3
38	Structural stability and elastic properties of WB4 under high pressure. <i>International Journal of Modern Physics B</i> , 2015 , 29, 1550103	1.1	4

37	Unraveling Stable Vanadium Tetraboride and Triboride by First-Principles Computations. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21649-21657	3.8	25
36	Crystal Field Splitting is Limiting the Stability and Strength of Ultra-incompressible Orthorhombic Transition Metal Tetraborides. <i>Scientific Reports</i> , 2016 , 6, 23088	4.9	17
35	First-principles study of crystalline and amorphous AlMgB14-based materials. <i>Journal of Applied Physics</i> , 2016 , 119, 205105	2.5	16
34	A Crossover from High Stiffness to High Hardness: The Case of Osmium and Its Borides. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2016 , 71, 831-836	1.4	
33	Effects of configurational disorder on the elastic properties of icosahedral boron-rich alloys based on B ₆ O, B ₁₃ C ₂ , and B ₄ C, and their mixing thermodynamics. <i>Journal of Chemical Physics</i> , 2016 , 144, 134503	3.9	17
32	First-principles study of the structural, elastic, vibrational, thermodynamic and electronic properties of the Mo ₂ B intermetallic under pressure. <i>Journal of Molecular Structure</i> , 2016 , 1125, 350-357	2.4	6
31	Structural stabilities, elastic and electronic properties of chromium tetraboride from first-principles calculations. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650098	1.1	3
30	Structural optimization and physical properties of TcB ₃ and MoB ₃ at high-pressure: First-principles. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650131	1.1	4
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27	AELAS: Automatic ELASTic property derivations via high-throughput first-principles computation. <i>Computer Physics Communications</i> , 2017 , 220, 403-416	4.2	51
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18	Synergetic effects of solute and strain in biocompatible Zn-based and Mg-based alloys. <i>Acta Materialia</i> , 2019 , 181, 423-438	8.4	11
17	Amorphous boron suboxide. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4546-4554	3.8	2
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13	Strain stiffening, high load-invariant hardness, and electronic anomalies of boron phosphide under pressure. <i>Physical Review B</i> , 2020 , 101,	3.3	14
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8	Synergistic Effect of Atomically Dispersed Ni-Zn Pair Sites for Enhanced CO Electroreduction. <i>Advanced Materials</i> , 2021 , 33, e2102212	24	33
7	Unprecedented plastic flow channel in B ₂₈ through ultrasoft bonds: A challenge to superhardness. <i>Physical Review Materials</i> , 2018 , 2,	3.2	8
6	Regulating oxygen covalent electron localization to enhance anionic redox reversibility of lithium-rich layered oxide cathodes. <i>Energy Storage Materials</i> , 2022 , 46, 512-522	19.4	5
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4	Prediction of a superhard high-pressure phase for CN: First-principles.		0
3	First-Principles Calculations to Investigate Effect of X-site Cations Variation on Structural, Mechanical, Electronic and Optical Properties of the XCdCl ₃ Chloroperovskites. 2023 , 289, 116228		0
2	Boron-rich amorphous boron oxides from ab initio simulations. 2023 , 604, 122130		0

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