

B B Karki

List of Publications by Year in descending order

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12
papers

2,058
citations

840776

11
h-index

1199594

12
g-index

12
all docs

12
docs citations

12
times ranked

1494
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and elasticity of MgO at high pressure. American Mineralogist, 1997, 82, 51-60.	1.9	407
2	Elastic instabilities in crystals from ab initio stress - strain relations. Journal of Physics Condensed Matter, 1997, 9, 8579-8589.	1.8	282
3	High-pressure lattice dynamics and thermoelasticity of MgO. Physical Review B, 2000, 61, 8793-8800.	3.2	278
4	First-Principles Determination of Elastic Anisotropy and Wave Velocities of MgO at Lower Mantle Conditions. Science, 1999, 286, 1705-1707.	12.6	236
5	Thermoelastic Properties of MgSiO ₃ -Perovskite: Insights on the Nature of the Earth's Lower Mantle. Physical Review Letters, 2004, 92, 018501.	7.8	210
6	Ab initio studies of high-pressure structural transformations in silica. Physical Review B, 1997, 55, 3465-3471.	3.2	154
7	Elastic properties of orthorhombic MgSiO ₃ perovskite at lower mantle pressures. American Mineralogist, 1997, 82, 635-638.	1.9	143
8	Ab initio lattice dynamics of MgSiO ₃ perovskite at high pressure. Physical Review B, 2000, 62, 14750-14756.	3.2	134
9	Viscosity of MgSiO ₃ Liquid at Earth's Mantle Conditions: Implications for an Early Magma Ocean. Science, 2010, 328, 740-742.	12.6	110
10	First-principles molecular dynamics simulations of MgSiO ₃ glass: Structure, density, and elasticity at high pressure. American Mineralogist, 2014, 99, 1304-1314.	1.9	62
11	Akimotoite to perovskite phase transition in MgSiO ₃ . Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	32
12	Computer simulation and visualization of vacancy defects in MgSiO ₃ perovskite. Modelling and Simulation in Materials Science and Engineering, 2006, 14, 1041-1052.	2.0	10