

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
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docs citations

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times ranked

1494
citing authors

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