Stanimir Bonev

List of Publications by Year
in descending order

14	411	1163117 8	1199594 12
papers	citations	h-index	g-index

14	14	14	477
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon under extreme conditions: Phase boundaries and electronic properties from first-principles theory. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1204-1208.	7.1	196
2	High-pressure phases of calcium and their finite-temperature phase boundaries. Physical Review B, 2008, 78, .	3.2	41
3	Stability of dense liquid carbon dioxide. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14808-14812.	7.1	39
4	High-Pressure Phases of Calcium: Density-Functional Theory and Diffusion Quantum MonteÂCarlo Approach. Physical Review Letters, 2010, 105, 235503.	7.8	37
5	Lattice Dynamics of Dense Lithium. Physical Review Letters, 2012, 108, 055501.	7.8	30
6	Structural and thermodynamic properties of liquid Na-Li and Ca-Li alloys at high pressure. Physical Review B, 2011, 83, .	3.2	18
7	Stability of the high-pressure phases of CaTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>perovskite at finite temperatures. Physical Review B, 2012, 86, .	3.2	15
8	Role of quantum ion dynamics in the melting of lithium. Physical Review B, 2016, 94, .	3.2	13
9	High-pressure lithium as an elemental topological semimetal. Physical Review Materials, 2019, 3, .	2.4	7
10	Comment On â€œStructural Prediction and Phase Transformation Mechanisms in Calcium at High Pressureâ€• Physical Review Letters, 2010, 104, 209601; author reply 209602.	7.8	6
11	Fermi surface studies of the low-temperature structure of sodium. Physical Review B, 2020, 101, .	3.2	5
12	Polymerization of sodium-doped liquid nitrogen under pressure. Physical Review B, 2017, 96, .	3.2	4
13	Diagrammatic quantum field formalism for localized electrons. Physical Review B, 2008, 78, .	3.2	0
14	Energetics of polymeric carbon monoxide. Journal of Chemical Physics, 2021, 155, 054501.	3.0	0