

Zhaoyang Zheng

List of Publications by Year in descending order

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12
papers

109
citations

1684188

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1372567

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all docs

12
docs citations

12
times ranked

149
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibrational energy redistribution in crystalline nitromethane simulated by <i>ab initio</i> molecular dynamics. RSC Advances, 2021, 11, 9557-9567.	3.6	1
2	Thermal properties of energetic materials from quasi-harmonic first-principles calculations. Journal of Physics Condensed Matter, 2021, 33, 275702.	1.8	3
3	Elucidating the Coupling Mechanisms of Rapid Intramolecular Vibrational Energy Redistribution in Nitromethane: Ab Initio Molecular Dynamics Simulation. Journal of Physical Chemistry A, 2020, 124, 8184-8191.	2.5	9
4	Shock-driven electron redistribution studies of triamino trinitrobenzene using time-resolved Raman spectroscopy and first-principle calculation. Journal of Raman Spectroscopy, 2020, 51, 2007-2015.	2.5	6
5	First-Principles Calculations for Stable $\text{Ti}^2\text{-Ti}^4\text{-Mo}$ Alloys Using Cluster-Plus-Glue-Atom Model. Acta Metallurgica Sinica (English Letters), 2020, 33, 968-974.	2.9	5
6	<i>Ab initio</i> molecular dynamics simulation of vibrational energy redistribution of selective excitation of C-H stretching vibrations for solid nitromethane. Physical Chemistry Chemical Physics, 2019, 21, 20822-20828.	2.8	5
7	The pressure effects and vibrational properties of energetic material: Hexahydro-1,3,5-trinitro-1,3,5-triazine (<i>RD</i> X). Journal of Raman Spectroscopy, 2019, 50, 889-898.	2.5	12
8	Pressure dependence on electronic structures, charge distribution and bond orders of solid nitromethane using nonlocal DFT functional. Molecular Simulation, 2018, 44, 1454-1460.	2.0	2
9	Time-resolved Raman spectroscopy for shock-driven intramolecular electron redistribution of cyclotrimethylene trinitramine (RDX). Journal of Raman Spectroscopy, 2018, 49, 1645-1651.	2.5	5
10	Tracking Intramolecular Vibrational Redistribution in Polyatomic Small-Molecule Liquids by Ultrafast Time-Frequency-Resolved CARS. Journal of Physical Chemistry A, 2017, 121, 4948-4952.	2.5	17
11	Visualizing Intramolecular Vibrational Redistribution in Cyclotrimethylene Trinitramine (RDX) Crystals by Multiplex Coherent Anti-Stokes Raman Scattering. Journal of Physical Chemistry A, 2017, 121, 2565-2571.	2.5	23
12	Ionic and superionic phases in ammonia dihydrate $\text{N}_3\text{H}_3\text{O}_2$ under high pressure. Physical Review B,	3.2	21