Zhaoyang Zheng

List of Publications by Year
in descending order

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12 papers	109 citations	1684188 5 h-index	1372567 10 g-index
12 all docs	12 docs citations	12 times ranked	149 citing authors

#	Article	IF	Citations
1	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
2	Ionic and superionic phases in ammonia dihydrate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>Â·</mml:mo><mml:mn>2</mml:mn><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math> under high pressure. Physical Review B,	3.2	21
3	Tracking Intramolecular Vibrational Redistribution in Polyatomic Small-Molecule Liquids by Ultrafast Timeâ€“Frequency-Resolved CARS. Journal of Physical Chemistry A, 2017, 121, 4948-4952.	2.5	17
4	The pressure effects and vibrational properties of energetic material: Hexahydroâ€1,3,5â€trinitroâ€1,3,5â€triazine (Î±â€RDX). Journal of Raman Spectroscopy, 2019, 50, 889-898.	2.5	12
5	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
6	Shockâ€driven electron redistribution studies of triamino trinitrobenzene using timeâ€resolved Raman spectroscopy and firstâ€principle calculation. Journal of Raman Spectroscopy, 2020, 51, 2007-2015.	2.5	6
7	Timeâ€resolved Raman spectroscopy for shockâ€driven intramolecular electron redistribution of cyclotrimethylene trinitramine (RDX). Journal of Raman Spectroscopy, 2018, 49, 1645-1651.	2.5	5
8	Ab initio molecular dynamics simulation of vibrational energy redistribution of selective excitation of Câ€“H stretching vibrations for solid nitromethane. Physical Chemistry Chemical Physics, 2019, 21, 20822-20828.	2.8	5
9	First-Principles Calculations for Stable Î²-Tiâ€“Mo Alloys Using Cluster-Plus-Glue-Atom Model. Acta Metallurgica Sinica (English Letters), 2020, 33, 968-974.	2.9	5
10	Thermal properties of energetic materials from quasi-harmonic first-principles calculations. Journal of Physics Condensed Matter, 2021, 33, 275702.	1.8	3
11	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
12	Vibrational energy redistribution in crystalline nitromethane simulated by ab initio molecular dynamics. RSC Advances, 2021, 11, 9557-9567.	3.6	1