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A high-pressure far- and mid-infrared study of 1,1-diamino-2

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Journal of Applied Physics, 2012, 111, 103534.

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#	Paper	IF	Citations
35	1,1-Diamino-2,2-dinitroethylene under high pressure-temperature. <i>Journal of Chemical Physics</i> , 2012 , 137, 174304	3.9	29
34	DFT study on crystalline 1,1-diamino-2,2-dinitroethylene under high pressures. <i>Journal of Molecular Modeling</i> , 2013 , 19, 4039-47	2	20
33	Hydrazine at high pressure. <i>Chemical Physics Letters</i> , 2013 , 555, 115-118	2.5	29
32	High pressure infrared and X-ray Raman studies of aluminum nitride. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 726-731	1.3	4
31	Polymorphs of 1,1-diamino-2,2-dinitroethene (FOX-7): Isothermal compression versus isobaric heating. <i>Chemical Physics Letters</i> , 2013 , 584, 83-87	2.5	26
30	High pressure investigations of melamine. <i>High Pressure Research</i> , 2013 , 33, 40-54	1.6	3
29	Initial decomposition mechanism for the energy release from electronically excited energetic materials: FOX-7 (1,1-diamino-2,2-dinitroethene, C ₂ H ₄ N ₄ O ₄). <i>Journal of Chemical Physics</i> , 2014 , 140, 074708	3.9	30
28	First-principles study of electric field effects on the structure, decomposition mechanism, and stability of crystalline lead styphnate. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2072	2	13
27	Structural, vibrational, and quasiparticle band structure of 1,1-diamino-2,2-dinitroethene from ab initio calculations. <i>Journal of Chemical Physics</i> , 2014 , 140, 014105	3.9	33
26	Density functional theory calculations of pressure effects on the structure and vibrations of 1,1-diamino-2,2-dinitroethene (FOX-7). <i>Journal of Physical Chemistry A</i> , 2014 , 118, 10002-10	2.8	30
25	High-pressure vibrational and polymorphic response of 1,1-diamino-2,2-dinitroethene single crystals: Raman spectroscopy. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 5002-12	2.8	29
24	Pressure-induced structure and properties of crystalline FOX-7 by LDA and GGA calculations. <i>Structural Chemistry</i> , 2014 , 25, 1625-1633	1.8	4
23	High pressure-temperature polymorphism of 1,1-diamino-2,2-dinitroethylene. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 052005	0.3	7
22	High-Pressure Experimental and DFT-D Structural Studies of the Energetic Material FOX-7. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2322-2334	3.8	55
21	Electric-field-induced structural and electronic changes and decomposition of an energetic complex: a computational study on zinc carbonylhydrazide perchlorate crystals. <i>RSC Advances</i> , 2015 , 5, 22607-22608	3.7	8
20	Electric-Field-Induced Structural and Electronic Changes and Decomposition of Crystalline Lead Azide: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8431-8437	3.8	10
19	High-pressure stability of 1,1-diamino-2,2-dinitroethene (FOX-7): H/D isotope effect. <i>Chemical Physics Letters</i> , 2015 , 624, 59-63	2.5	7

18	High Pressure-Temperature Phase Diagram of 1,1-Diamino-2,2-dinitroethylene (FOX-7). <i>Journal of Physical Chemistry A</i> , 2015 , 119, 9739-47	2.8	24
17	The structural response to pressure of energetic crystal 1,3-Diamino-2,4,6-trinitrobenzene: Density functional theory calculations and Hirshfeld surfaces analysis. <i>Computational and Theoretical Chemistry</i> , 2016 , 1091, 57-63	2	3
16	High pressure structural, elastic and vibrational properties of green energetic oxidizer ammonium dinitramide. <i>Journal of Chemical Physics</i> , 2016 , 145, 064706	3.9	12
15	Structural, vibrational and bonding properties of hydro-nitrogen solids under high pressure: An ab-initio study. <i>Journal of Chemical Sciences</i> , 2016 , 128, 1631-1639	1.8	4
14	Equation of state and thermodynamic Grüneisen parameter of monoclinic 1,1-diamino-2,2-dinitroethylene. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 395402	1.8	2
13	High-Pressure Structural Response of an Insensitive Energetic Crystal: 1,1-Diamino-2,2-dinitroethene (FOX-7). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27600-27607	3.8	14
12	Phase Diagram and Decomposition of 1,1-Diamino-2,2-dinitroethene Single Crystals at High Pressures and Temperatures. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 11092-11098	3.8	18
11	High-Pressure Preference for the Low Z? Polymorph of a Molecular Crystal. <i>Crystal Growth and Design</i> , 2016 , 16, 3947-3953	3.5	20
10	High-Pressure Crystal Structures of an Insensitive Energetic Crystal: 1,1-Diamino-2,2-dinitroethene. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1218-1224	3.8	31
9	High Pressure Effects on Zwitterionic and Thione Mesomeric Contributions in 2-Benzimidazole-2-Thione. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18830-18836	3.8	
8	A DFT-D Study on Structural, Electronic, Thermodynamic, and Mechanical Properties of HMX/MPNO Cocrystal under High Pressure. <i>Journal of Energetic Materials</i> , 2017 , 35, 157-171	1.6	7
7	Pressure-Induced High-to-Low Z? Phase Transition of a Conformationally Disordered Molecular Crystal. <i>Crystal Growth and Design</i> , 2018 , 18, 3187-3192	3.5	6
6	Review of Phase Transformations in Energetic Materials as a Function of Pressure and Temperature. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29067-29085	3.8	12
5	Uniaxial compression behavior and spectroscopic properties of energetic 1,1-diamino-2,2-dinitroethylene (FOX-7) crystals from density functional theory calculations. <i>Progress in Natural Science: Materials International</i> , 2019 , 29, 329-334	3.6	3
4	Structural Transformation and Chemical Stability of a Shock-Compressed Insensitive High Explosive Single Crystal: Time-Resolved Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6521-6527	2.8	5
3	Near-optimal combination of high performance and insensitivity in a shock compressed high explosive single crystal. <i>Journal of Applied Physics</i> , 2021 , 130, 015902	2.5	1
2	Pressure-induced phase transitions and mechanical properties of insensitive high explosive 1,1-diamino-2,2-dinitroethylene. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2022 , 77, 131-140	1	
1	A review of small angle scattering, neutron reflection, and neutron diffraction techniques for microstructural characterization of polymer-bonded explosives. 2023 ,		1

