

Brenden W Hamilton

List of Publications by Year in descending order

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12
papers

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#	ARTICLE	IF	CITATIONS
1	Hotspot formation due to shock-induced pore collapse in 1,3,5,7-tetranitro-1,3,5,7-tetrazoctane (HMX): Role of pore shape and shock strength in collapse mechanism and temperature. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	44
2	Unsupervised Learning-Based Multiscale Model of Thermochemistry in 1,3,5-Trinitro-1,3,5-triazinane (RDX). <i>Journal of Physical Chemistry A</i> , 2020, 124, 9141-9155.	2.5	41
3	Continuum and molecular dynamics simulations of pore collapse in shocked γ -tetramethylene tetranitramine (γ -HMX) single crystals. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	38
4	Sensitivity of the Shock Initiation Threshold of 1,3,5-Triamino-2,4,6-trinitrobenzene (TATB) to Nuclear Quantum Effects. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21969-21981.	3.1	35
5	A Hotspot's Better Half: Non-Equilibrium Intra-Molecular Strain in Shock Physics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2756-2762.	4.6	30
6	Chemistry Under Shock Conditions. <i>Annual Review of Materials Research</i> , 2021, 51, 101-130.	9.3	25
7	Predicted Reaction Mechanisms, Product Speciation, Kinetics, and Detonation Properties of the Insensitive Explosive 2,6-Diamino-3,5-dinitropyrazine-1-oxide (LLM-105). <i>Journal of Physical Chemistry A</i> , 2021, 125, 1766-1777.	2.5	19
8	Fourier-like Thermal Relaxation of Nanoscale Explosive Hot Spots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20570-20582.	3.1	18
9	The Potential Energy Hotspot: Effects of Impact Velocity, Defect Geometry, and Crystallographic Orientation. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3743-3755.	3.1	17
10	Extemporaneous Mechanochemistry: Shock-Wave-Induced Ultrafast Chemical Reactions Due to Intramolecular Strain Energy. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6657-6663.	4.6	15
11	Systematic Builder for All-Atom Simulations of Plastically Bonded Explosives. <i>Propellants, Explosives, Pyrotechnics</i> , 2022, 47, .	1.6	8
12	Deviatoric stress driven transient melting below the glass transition temperature in shocked polymers. <i>Journal of Applied Physics</i> , 2022, 132, .	2.5	3