Brenden W Hamilton

List of Publications by Year
in descending order

12	303	933447 10	1199594 12
papers	citations	h-index	g-index

14	14	14	96
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Potential Energy Hotspot: Effects of Impact Velocity, Defect Geometry, and Crystallographic Orientation. Journal of Physical Chemistry C, 2022, 126, 3743-3755.	3.1	17
2	Systematic Builder for Allâ€Atom Simulations of Plastically Bonded Explosives. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.6	8
3	Deviatoric stress driven transient melting below the glass transition temperature in shocked polymers. Journal of Applied Physics, 2022, 132, .	2.5	3
4	Extemporaneous Mechanochemistry: Shock-Wave-Induced Ultrafast Chemical Reactions Due to Intramolecular Strain Energy. Journal of Physical Chemistry Letters, 2022, 13, 6657-6663.	4.6	15
5	Continuum and molecular dynamics simulations of pore collapse in shocked Î²-tetramethylene tetranitramine (Î²-HMX) single crystals. Journal of Applied Physics, 2021, 129, .	2.5	38
6	Predicted Reaction Mechanisms, Product Speciation, Kinetics, and Detonation Properties of the Insensitive Explosive 2,6-Diamino-3,5-dinitropyrazine-1-oxide (LLM-105). Journal of Physical Chemistry A, 2021, 125, 1766-1777.	2.5	19
7	A Hotspotâ€™s Better Half: Non-Equilibrium Intra-Molecular Strain in Shock Physics. Journal of Physical Chemistry Letters, 2021, 12, 2756-2762.	4.6	30
8	Chemistry Under Shock Conditions. Annual Review of Materials Research, 2021, 51, 101-130.	9.3	25
9	Fourier-like Thermal Relaxation of Nanoscale Explosive Hot Spots. Journal of Physical Chemistry C, 2021, 125, 20570-20582.	3.1	18
10	Unsupervised Learning-Based Multiscale Model of Thermochemistry in 1,3,5-Trinitro-1,3,5-triazinane (RDX). Journal of Physical Chemistry A, 2020, 124, 9141-9155.	2.5	41
11	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. Journal of Applied Physics, 2020, 127, .	2.5	44
12	Sensitivity of the Shock Initiation Threshold of 1,3,5-Triamino-2,4,6-trinitrobenzene (TATB) to Nuclear Quantum Effects. Journal of Physical Chemistry C, 2019, 123, 21969-21981.	3.1	35