

H Keo Springer

List of Publications by Year in descending order

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35
papers

413
citations

1163117

8
h-index

752698

20
g-index

35
all docs

35
docs citations

35
times ranked

275
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the fracture and fragmentation of explosively driven rings and cylinders. International Journal of Impact Engineering, 2008, 35, 1547-1556.	5.0	104
2	Modeling The Effects of Shock Pressure and Pore Morphology on Hot Spot Mechanisms in HMX. Propellants, Explosives, Pyrotechnics, 2018, 43, 805-817.	1.6	68
3	Mesoscale evolution of voids and microstructural changes in HMX-based explosives during heating through the β - γ phase transition. Journal of Applied Physics, 2015, 118, .	2.5	52
4	Investigating short-pulse shock initiation in HMX-based explosives with reactive meso-scale simulations. Journal of Physics: Conference Series, 2014, 500, 052041.	0.4	21
5	Effects of high shock pressures and pore morphology on hot spot mechanisms in HMX. AIP Conference Proceedings, 2017, , .	0.4	20
6	The response of the HMX-based material PBXN-9 to thermal insults: Thermal decomposition kinetics and morphological changes. Thermochimica Acta, 2011, 515, 58-66.	2.7	18
7	Adiabatic shear band formation in explosively driven Fe-Ni-Co alloy cylinders. Scripta Materialia, 2006, 55, 247-250.	5.2	16
8	Hot Spot Formation in Mock Materials in Impact Sensitivity Testing by Drop Hammer. Propellants, Explosives, Pyrotechnics, 2017, 42, 1303-1308.	1.6	10
9	A Computer Model to Study the Response of Energetic Materials to a Range of Dynamic Loads. Propellants, Explosives, Pyrotechnics, 2018, 43, 703-720.	1.6	10
10	Numerical and experimental study of thermal explosions in LX-10 and PBX 9501: Influence of thermal damage on deflagration processes. Journal of Applied Physics, 2013, 114, 043504.	2.5	8
11	Shock initiation experiments with ignition and growth modeling on the HMX-based explosive LX-14. AIP Conference Proceedings, 2018, , .	0.4	8
12	Laser-driven flyer plate impact: Computational studies guided by experiments. Journal of Applied Physics, 2021, 129, .	2.5	8
13	Pre-ignition confinement and deflagration violence in LX-10 and PBX 9501. Journal of Applied Physics, 2014, 116, 054903.	2.5	7
14	Numerical parameter optimizations of the Ignition and Growth model for a HMX plastic bonded explosive. Journal of Applied Physics, 2018, 124, .	2.5	6
15	Modeling Hot Spot Experiments on Shocked Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine. Propellants, Explosives, Pyrotechnics, 2020, 45, 330-337.	1.6	6
16	Drive-pressure optimization in ramp-wave compression experiments through differential evolution. Journal of Applied Physics, 2020, 128, 195903.	2.5	6
17	Mesoscale modeling of deflagration-induced deconsolidation in polymer-bonded explosives. AIP Conference Proceedings, 2012, , .	0.4	5
18	Grain-Scale Simulation of Shock Initiation in Composite High Explosives. Challenges and Advances in Computational Chemistry and Physics, 2017, , 243-270.	0.6	5

#	ARTICLE	IF	CITATIONS
19	TIME-SEQUENCED X-RAY OBSERVATION OF A THERMAL EXPLOSION. AIP Conference Proceedings, 2009, , .	0.4	4
20	Probabilistic effects of porosity and chemical kinetics on the shock initiation of an octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) based explosive. Journal of Applied Physics, 2021, 129, .	2.5	4
21	Predicted Melt Curve and Liquid Shear Viscosity of RDX up to 30â€¦GPa. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.6	4
22	Study of thermal sensitivity and thermal explosion violence of energetic materials in the LLNL ODTX system. Journal of Physics: Conference Series, 2014, 500, 052019.	0.4	3
23	Effect of Sandpaper and Grain Size on Nonâ€ŠShock Initiated Reactions in HMX. Propellants, Explosives, Pyrotechnics, 2017, 42, 1191-1202.	1.6	3
24	Thermal safety characterization and explosion violence of energetic materials. AIP Conference Proceedings, 2017, , .	0.4	3
25	A comparison of deflagration rates at elevated pressures and temperatures with thermal explosion results. AIP Conference Proceedings, 2012, , .	0.4	2
26	Computational studies of the skid test: Evaluation of the non-shock ignition of LX-10 using HERMES. Journal of Physics: Conference Series, 2014, 500, 192021.	0.4	2
27	Entropy maximization and free energy minimization of multiphase mixtures using particle swarm optimization. AIP Conference Proceedings, 2018, , .	0.4	2
28	Numerical parameter optimization of the ignition and growth model for HMX based plastic bonded explosives. AIP Conference Proceedings, 2018, , .	0.4	2
29	THERMAL DAMAGE CHARACTERIZATION OF ENERGETIC MATERIALS. , 2009, , .		1
30	Study of thermal sensitivity and thermal explosion violence of energetic materials in the LLNL ODTX system. , 2012, , .		1
31	Mesoscale simulations of particle reinforced epoxy-based composites. , 2012, , .		1
32	Numerical study on tailoring the shock sensitivity of TATB-based explosives using sub-millimeter features. AIP Conference Proceedings, 2018, , .	0.4	1
33	Determining shock reponse of PETN-based explosives with grain-scale simulations. AIP Conference Proceedings, 2020, , .	0.4	1
34	Hot spot criticality in shocked HMX over a range of pore sizes and pressures. , 2020, , .		1
35	Computational studies of laser-driven flyer impact experiments to probe properties of inert and energetic materials. AIP Conference Proceedings, 2020, , .	0.4	0