Steve F Son

List of Publications by Year
in descending order

248 papers	8,466 citations	41258 49 h-index	58464 82 g-index
256 all docs	256 docs citations	256 times ranked	3852 citing authors

#	Article	IF	Citations
1	The influence of microstructure and polymorphic conformer on the shock sensitivity of 1,3,5,7-tetranitro-1,3,5,7-tetrazoctane (HMX). Journal of Energetic Materials, 2023, 41, 483-509.	1.0	3
2	The inï¬‚uence of microstructure and conformational polymorph on the drop-weight impact sensitivity of Î´-phase HMX. Journal of Energetic Materials, 2022, 40, 445-470.	1.0	2
3	Direct observations of ultrasonically generated hot spots in polymer composite energetic materials. Combustion and Flame, 2022, 235, 111704.	2.8	0
4	Laser Ignition of Solid Propellants Using Energetic nAl-PVDF Optical Sensitizers. , 2022, , .		4
5	Preparation and characterization of multifunctional piezoenergetic polyvinylidene fluoride/aluminum nanocomposite films. Journal of Applied Physics, 2022, 131, .	1.1	8
6	Vibration-assisted printing of highly viscous food. Additive Manufacturing, 2022, 56, 102851.	1.7	1
7	Effects of flexoelectric and piezoelectric properties on the impact-driven ignition sensitivity of P(VDF-TrFE)/nAl films. Combustion and Flame, 2022, 242, 112181.	2.8	12
8	On the Use of Fluorineâ€Containing Nanoâ€Aluminum Composite Particles to Tailor Composite Solid Rocket Propellants. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.0	7
9	Wavelength-modulation spectroscopy in the mid-infrared for temperature and HCl measurements in aluminum-lithium composite-propellant flames. Combustion and Flame, 2022, 242, 112180.	2.8	6
10	Photoflash and laser ignition of Al/PVDF films and additively manufactured igniters for solid propellant. Combustion and Flame, 2022, 244, 112252.	2.8	10
11	The effect of the chosen distribution form on reaction probability estimates from drop-weight impact results. Journal of Energetic Materials, 2021, 39, 377-398.	1.0	3
12	Experimental Study of Factors Affecting Hypergolic Ignition of Ammonia Borane. Journal of Propulsion and Power, 2021, 37, 202-210.	1.3	8
13	The kinetics of thermal decomposition and hot-stage microscopy of selected energetic cocrystals. Journal of Energetic Materials, 2021, 39, 313-332.	1.0	2
14	High-speed multi-spectral imaging of the hypergolic ignition of ammonia borane. Proceedings of the Combustion Institute, 2021, 38, 4433-4440.	2.4	12
15	Tailoring the reactivity of printable Al/PVDF filament. Combustion and Flame, 2021, 223, 110-117.	2.8	30
16	Dynamic X-Ray Imaging of Additively Manufactured Reactive Components in Solid Propellants. Journal of Propulsion and Power, 2021, 37, 362-368.	1.3	5
17	Characterization of the influence of aluminum particle size on the temperature of composite-propellant flames using CO absorption and AlO emission spectroscopy. Proceedings of the Combustion Institute, 2021, 38, 4365-4372.	2.4	21
18	Characterization of an Aluminumâ€“Lithium-Alloy-Based Composite Propellant at Elevated Pressures. Journal of Propulsion and Power, 2021, 37, 332-337.	1.3	13

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19	Characterization of Aluminum-Lithium Composite-Propellant Flames via Laser Absorption Spectroscopy. , 2021, , .		3
20	Modeling of Layered Ammonium Perchlorate Composite Propellant with Different Burning Rates. , 2021, , .		1
21	Structural Energetic Properties of Al/PVDF Composite Materials Prepared Using Fused Filament Fabrication. Propellants, Explosives, Pyrotechnics, 2021, 46, 670-678.	1.0	9
22	Visible emission spectra of thermographic phosphors under x-ray excitation. Measurement Science and Technology, 2021, 32, 094008.	1.4	9
23	Identification of Elusive Keto and Enol Intermediates in the Photolysis of 1,3,5-Trinitro-1,3,5-Triazinane. Journal of Physical Chemistry Letters, 2021, 12, 6062-6069.	2.1	3
24	Extrusion of AP Composite Propellant with Self-aligned Reactive Fibers. , 2021, , .		0
25	Temperature-dependent x-ray fluorescent response from thermographic phosphors under x-ray excitation. Applied Physics Letters, 2021, 119, 034103.	1.5	0
26	Conductive Polymer Spark Gap Igniters. Propellants, Explosives, Pyrotechnics, 2021, 46, 1500.	1.0	0
27	Dynamic Combustion of Functionally Graded Additively Manufactured Composite Solid Propellant. Journal of Propulsion and Power, 2021, 37, 725-732.	1.3	9
28	Photoflash and laser ignition of full density nano-aluminum PVDF films. Combustion and Flame, 2021, 233, 111570.	2.8	22
29	Ultrafast-laser-absorption-spectroscopy measurements of gas temperature in multi-phase, high-pressure combustion gases. , 2021, , .		1
30	Observation of Damage During Dynamic Compression of Production and Low-Defect HMX Crystals in SylgardÂ® Binder Using X-Ray Phase Contrast Imaging. Journal of Dynamic Behavior of Materials, 2020, 6, 34-44.	1.1	5
31	Prediction of Energetic Material Properties from Electronic Structure Using 3D Convolutional Neural Networks. Journal of Chemical Information and Modeling, 2020, 60, 4457-4473.	2.5	42
32	Insight into the Chemistry of PETN Under Shock Compression Through Ultrafast Broadband Mid-Infrared Absorption Spectroscopy. Journal of Physical Chemistry A, 2020, 124, 7031-7046.	1.1	17
33	Investigating the Photochemical Decomposition of Solid 1,3,5-Trinitro-1,3,5-triazinane (RDX). Journal of Physical Chemistry A, 2020, 124, 6801-6823.	1.1	6
34	Shock-induced reactions in metal nitride â€“ Boron nanostructured composites. Scripta Materialia, 2020, 189, 58-62.	2.6	4
35	Burning rate and flame structure of cocrystals of CL-20 and a polycrystalline composite crystal of HMX/AP. Combustion and Flame, 2020, 219, 129-135.	2.8	17
36	Development and Characterization of a Photopolymeric Binder for Additively Manufactured Composite Solid Propellant Using Vibration Assisted Printing. Propellants, Explosives, Pyrotechnics, 2020, 45, 853-863.	1.0	27

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37	The Elusive Ketene (H 2 CCO) Channel in the Infrared Multiphoton Dissociation of Solid 1,3,5â€Trinitroâ€1,3,5â€Triazinane (RDX). ChemPhysChem, 2020, 21, 837-842.	1.0	7
38	Investigation of Additively Manufactured Layered Composite Solid Propellant. , 2020, , .		7
39	Void Collapse in Shocked â€HMX Single Crystals: Simulations and Experiments. Propellants, Explosives, Pyrotechnics, 2020, 45, 243-253.	1.0	19
40	Scanned-Wavelength-Modulation Spectroscopy in the Mid-Infrared for Measurements of Temperature and CO in Aluminized Composite Propellant Flames. , 2020, , .		2
41	Dynamic stress-strain response of high-energy ball milled aluminium powder compacts. Mechanics of Materials, 2020, 143, 103337.	1.7	4
42	Xâ€ray Phase Contrast Imaging of the Impact of Multiple HMX Particles in a Polymeric Matrix. Propellants, Explosives, Pyrotechnics, 2020, 45, 607-614.	1.0	9
43	The role of adhesion and binder stiffness in the impact sensitivity of cast composite energetic materials. Journal of Applied Physics, 2020, 128, .	1.1	9
44	The Effect of Process Parameters on the Structural Energetic Properties of Additively Manufactured Reactive Structures. Journal of Engineering Materials and Technology, Transactions of the ASME, 2020, 142, .	0.8	8
45	Decomposition of Ammonium-Perchlorate-Encapsulated Nanoscale and Micron-Scale Catalyst Particles. Journal of Propulsion and Power, 2020, 36, 862-868.	1.3	4
46	Additive manufacturing of ammonium perchlorate composite propellant with high solids loadings. Proceedings of the Combustion Institute, 2019, 37, 3135-3142.	2.4	93
47	Altering Agglomeration in a Composite Propellant with Aluminumâ€“Silicon Eutectic Alloy. Journal of Propulsion and Power, 2019, 35, 1048-1056.	1.3	9
48	Mesoscale observations of the thermal decomposition of energetic composites under ultrasonic excitation. Journal of Applied Physics, 2019, 125, 215114.	1.1	4
49	Probing the Reaction Mechanisms Involved in the Decomposition of Solid 1,3,5-Trinitro-1,3,5-triazinane by Energetic Electrons. Journal of Physical Chemistry A, 2019, 123, 9479-9497.	1.1	6
50	Investigation of Polymer Matrix Nanoâ€Aluminum Composites with Pulsed Laser Heating by Inâ€Situ TEM. Propellants, Explosives, Pyrotechnics, 2019, 44, 1608-1612.	1.0	6
51	An Experimental Study of Factors Affecting Hypergolic Ignition of Ammonia Borane. , 2019, , .		0
52	A benchtop shock physics laboratory: Ultrafast laser driven shock spectroscopy and interferometry methods. Review of Scientific Instruments, 2019, 90, 063001.	0.6	9
53	The effect of the particle surface and binder properties on the response of polymer bonded explosives at low impact velocities. Computational Materials Science, 2019, 166, 170-178.	1.4	16
54	Xâ€Ray Phase Contrast Imaging of the Impact of a Single HMX Particle in a Polymeric Matrix. Propellants, Explosives, Pyrotechnics, 2019, 44, 447-454.	1.0	11

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55	In-situ X-ray observations of ultrasound-induced explosive decomposition. Applied Materials Today, 2019, 15, 286-294.	2.3	6
56	The Effect of Encapsulated Nanoscale and Micron-scale Catalyst Particles on the Decomposition of Ammonium Perchlorate Crystals. , 2019, , .		0
57	Characterization of the Hypergolic Ignition Delay of Ammonia Borane. Journal of Propulsion and Power, 2019, 35, 182-189.	1.3	27
58	Detonation Velocity Measurement of a Hydrogen Peroxide Solvate of CLâ€20. Propellants, Explosives, Pyrotechnics, 2019, 44, 313-318.	1.0	19
59	The Effects of Confinement on the Fracturing Performance of Printed Nanothermites. Propellants, Explosives, Pyrotechnics, 2019, 44, 47-54.	1.0	17
60	Dynamic imaging of the temperature field within an energetic composite using phosphor thermography. Applied Optics, 2019, 58, 4320.	0.9	8
61	10.1063/1.5088153.3. , 2019, , .		0
62	Agglomerate Sizing in Aluminized Propellants Using Digital Inline Holography and Traditional Diagnostics. Journal of Propulsion and Power, 2018, 34, 1002-1014.	1.3	31
63	Impact Sensitivity and Ignition Mechanisms of Nanoaluminum-poly(perfluorinated methacrylate) Nanocomposites. MRS Advances, 2018, 3, 887-903.	0.5	0
64	Influence of Stoichiometry on the Thrust and Heat Deposition of Onâ€Chip Nanothermites. Propellants, Explosives, Pyrotechnics, 2018, 43, 258-266.	1.0	13
65	Shock-induced reaction synthesis of cubic boron nitride. Applied Physics Letters, 2018, 112, 171903.	1.5	9
66	3D printing of extremely viscous materials using ultrasonic vibrations. Additive Manufacturing, 2018, 22, 98-103.	1.7	55
67	Laser ignition of CL-20 (hexanitrohexaazaisowurtzitane) cocrystals. Combustion and Flame, 2018, 188, 104-115.	2.8	40
68	Detonation Performance Characterization of a Novel CLâ€20 Cocrystal Using Microwave Interferometry. Propellants, Explosives, Pyrotechnics, 2018, 43, 38-47.	1.0	17
69	Relating a small-scale shock sensitivity experiment to large-scale failure diameter in an aluminized ammonium nitrate non-ideal explosive. Combustion and Flame, 2018, 194, 271-277.	2.8	4
70	Innovative scheme for high-repetition-rate imaging of CN radical. Optics Letters, 2018, 43, 443.	1.7	5
71	Selectively-deposited energetic materials: A feasibility study of the piezoelectric inkjet printing of nanothermites. Additive Manufacturing, 2018, 22, 69-74.	1.7	36
72	Ignition and combustion behavior of mechanically activated Alâ€“Mg particles in composite solid propellants. Combustion and Flame, 2018, 194, 410-418.	2.8	66

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73	Localized Heating Near a Rigid Spherical Inclusion in a Viscoelastic Binder Material Under Compressional Plane Wave Excitation. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	1.1	4
74	The effect of decorated graphene addition on the burning rate of ammonium perchlorate composite propellants. Combustion and Flame, 2017, 183, 322-329.	2.8	71
75	Controlled Substrate Destruction Using Nanothermite. Propellants, Explosives, Pyrotechnics, 2017, 42, 579-584.	1.0	16
76	The role of fracture in the impact initiation of Ni-Al intermetallic composite reactives during dynamic loading. Acta Materialia, 2017, 133, 247-257.	3.8	18
77	The Relationship Between Flame Structure and Burning Rate for Ammonium Perchlorate Composite Propellants. Challenges and Advances in Computational Chemistry and Physics, 2017, , 171-211.	0.6	2
78	Additive manufacturing of multifunctional reactive materials. Additive Manufacturing, 2017, 17, 176-182.	1.7	72
79	Two-component additive manufacturing of nanothermite structures via reactive inkjet printing. Journal of Applied Physics, 2017, 122, .	1.1	34
80	Microexplosions and ignition dynamics in engineered aluminum/polymer fuel particles. Combustion and Flame, 2017, 176, 162-171.	2.8	44
81	Tailoring burning rates using reactive wires in composite solid rocket propellants. Proceedings of the Combustion Institute, 2017, 36, 2283-2290.	2.4	34
82	A mechanism for shattering microexplosions and dispersive boiling phenomena in aluminumâ€“lithium alloy based solid propellant. Proceedings of the Combustion Institute, 2017, 36, 2309-2316.	2.4	56
83	The effects of crystal proximity and crystal-binder adhesion on the thermal responses of ultrasonically-excited composite energetic materials. Journal of Applied Physics, 2017, 122, .	1.1	17
84	Phase Changes in Embedded HMX in Response to Periodic Mechanical Excitation. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 79-86.	0.3	3
85	Reactive flow modeling of small scale detonation failure experiments for a baseline non-ideal explosive. Journal of Applied Physics, 2016, 120, .	1.1	13
86	High speed X-ray phase contrast imaging of energetic composites under dynamic compression. Applied Physics Letters, 2016, 109, .	1.5	56
87	High speed OH PLIF applied to multiphase combustion (Review). Combustion, Explosion and Shock Waves, 2016, 52, 1-13.	0.3	13
88	Solid Amineâ€“Boranes as High-Performance and Hypergolic Hybrid Rocket Fuels. Journal of Propulsion and Power, 2016, 32, 23-31.	1.3	33
89	Microscopic two-color infrared imaging of Ni Al reactive particles and pellets. Thin Solid Films, 2016, 620, 48-53.	0.8	4
90	The impact of crystal morphology on the thermal responses of ultrasonically-excited energetic materials. Journal of Applied Physics, 2016, 119, .	1.1	20

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91	Performance and Flame Visualization of Dicyclopentadiene Rocket Propellants with Metal Hydride Additives. Journal of Propulsion and Power, 2016, 32, 869-881.	1.3	14
92	Removing hydrochloric acid exhaust products from high performance solid rocket propellant using aluminum-lithium alloy. Journal of Hazardous Materials, 2016, 317, 259-266.	6.5	51
93	Near-surface flame structure characterization of simplified ammonium perchlorate/hydroxyl-terminated polybutadiene compositions. Combustion and Flame, 2016, 164, 201-211.	2.8	15
94	Graphene Oxide/Ammonium Perchlorate Composite Material for Use in Solid Propellants. Journal of Propulsion and Power, 2016, 32, 682-686.	1.3	44
95	Photoflash and laser ignition of select high-nitrogen materials. Combustion and Flame, 2016, 167, 207-217.	2.8	35
96	Encapsulated Nanoscale Particles and Inclusions in Solid Propellant Ingredients. , 2016, , 323-340.		1
97	Oxidizer coarse-to-fine ratio effect on microscale flame structure in a bimodal composite propellant. Combustion and Flame, 2016, 163, 406-413.	2.8	18
98	10.1063/1.4963137.1. , 2016, , .		0
99	Numerical modeling of self-propagating reactions in Ru/Al nanoscale multilayer foils. Applied Physics Letters, 2015, 107, .	1.5	8
100	Simulations of nanoscale Ni/Al multilayer foils with intermediate Ni2Al3 growth. Journal of Applied Physics, 2015, 117, .	1.1	12
101	The effect of encapsulated nanosized catalysts on the combustion of composite solid propellants. Combustion and Flame, 2015, 162, 1821-1828.	2.8	59
102	Altering combustion of silicon/polytetrafluoroethylene with two-step mechanical activation. Combustion and Flame, 2015, 162, 1350-1357.	2.8	18
103	Combustion of mechanically activated Ni/Al reactive composites with microstructural refinement tailored using two-step milling. Intermetallics, 2015, 66, 88-95.	1.8	23
104	Using time-frequency analysis to determine time-resolved detonation velocity with microwave interferometry. Review of Scientific Instruments, 2015, 86, 044705.	0.6	10
105	Design and Synthesis of a Series of Nitrogen-Rich Energetic Cocrystals of 5,5â€²-Dinitro-2H,2Hâ€²-3,3â€²-bi-1,2,4-triazole (DNBT). Crystal Growth and Design, 2015, 15, 2545-2549.	1.4	88
106	Critical Ignition Criteria for Monomethylhydrazine and Red Fuming Nitric Acid. Journal of Propulsion and Power, 2015, 31, 1184-1192.	1.3	10
107	Characterization of Ethylenediamine Bisborane as a Hypergolic Hybrid Rocket Fuel Additive. Journal of Propulsion and Power, 2015, 31, 365-372.	1.3	29
108	Exploring mechanisms for agglomerate reduction in composite solid propellants with polyethylene inclusion modified aluminum. Combustion and Flame, 2015, 162, 846-854.	2.8	75

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109	Nanoscale Characterization of Mock Explosive Materials Using Advanced Atomic Force Microscopy Methods. Journal of Energetic Materials, 2015, 33, 51-65.	1.0	11
110	Amineâ€“Boranes: Green Hypergolic Fuels with Consistently Low Ignition Delays. Chemistry - A European Journal, 2014, 20, 16869-16872.	1.7	47
111	Influence of Ammonia Borane on the Stability of a Liquid Rocket Combustor. Journal of Propulsion and Power, 2014, 30, 290-298.	1.3	8
112	High-repetition-rate three-dimensional OH imaging using scanned planar laser-induced fluorescence system for multiphase combustion. Applied Optics, 2014, 53, 316.	0.9	55
113	The Effect of Silicon Powder Characteristics on the Combustion of Silicon/Teflon/Viton Nanoenergetics. Propellants, Explosives, Pyrotechnics, 2014, 39, 337-347.	1.0	19
114	Ti/C-3Ni/Al as a Replacement Time Delay Composition. Propellants, Explosives, Pyrotechnics, 2014, 39, 138-147.	1.0	15
115	Heat generation in an elastic binder system with embedded discrete energetic particles due to high-frequency, periodic mechanical excitation. Journal of Applied Physics, 2014, 116, .	1.1	17
116	Performance and Aging of Mn/MnO₂ as an Environmentally Friendly Energetic Time Delay Composition. ACS Sustainable Chemistry and Engineering, 2014, 2, 1312-1317.	3.2	19
117	Preparation and Characterization of Aqueous Nanothermite Inks for Direct Deposition on SCB Initiators. Propellants, Explosives, Pyrotechnics, 2014, 39, 463-470.	1.0	22
118	Formulation and Characterization of a New Nitroglycerinâ€Free Double Base Propellant. Propellants, Explosives, Pyrotechnics, 2014, 39, 205-210.	1.0	29
119	Mechanical, pyrolysis, and combustion characterization of briquetted coal fines with municipal solid waste plastic (MSW) binders. Fuel, 2014, 115, 62-69.	3.4	48
120	Composite Propellant Based on a New Nitrate Ester. Propellants, Explosives, Pyrotechnics, 2014, 39, 684-688.	1.0	12
121	Aluminum agglomeration reduction in a composite propellant using tailored Al/PTFE particles. Combustion and Flame, 2014, 161, 311-321.	2.8	224
122	Solid-Fuel Regression Rates and Flame Characteristics in an Opposed Flow Burner. Journal of Propulsion and Power, 2014, 30, 1675-1682.	1.3	23
123	Detonation Failure Characterization of Homemade Explosives. Propellants, Explosives, Pyrotechnics, 2014, 39, 609-616.	1.0	8
124	Microwave frequency material properties of PBS 9501 and PBX 9501 and small scale heating experiments. Journal of Physics: Conference Series, 2014, 500, 052040.	0.3	1
125	Fate and Toxicity of CuO Nanospheres and Nanorods used in Al/CuO Nanothermites Before and After Combustion. Environmental Science & Technology, 2013, 47, 11258-11267.	4.6	16
126	Effect of Solids Loading on Resonant Mixed Alâ€Bi₂O₃ Nanothermite Powders. Propellants, Explosives, Pyrotechnics, 2013, 38, 605-610.	1.0	48

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127	The role of microstructure refinement on the impact ignition and combustion behavior of mechanically activated Ni/Al reactive composites. Journal of Applied Physics, 2013, 114, 113501.	1.1	41
128	The effect of doping on the combustion and reaction kinetics of silicon reactives. Combustion and Flame, 2013, 160, 1835-1841.	2.8	10
129	Transition from Impact-induced Thermal Runaway to Prompt Mechanochemical Explosion in Nanoscaled Ni/Al Reactive Systems. Propellants, Explosives, Pyrotechnics, 2013, 38, 611-621.	1.0	10
130	Combustion Performance of Several Nanosilicon-Based Nanoenergetics. Journal of Propulsion and Power, 2013, 29, 1435-1444.	1.3	30
131	Micro-RVE modeling of mechanistic response in porous intermetallics subject to weak and moderate impact loading. International Journal of Plasticity, 2013, 51, 1-32.	4.1	10
132	CuO/Al Thermites for Solid Rocket Motor Ignition. Journal of Propulsion and Power, 2013, 29, 1194-1199.	1.3	9
133	Dependence of Nano-Aluminum and Water Propellant Combustion on pH and Rheology. Combustion Science and Technology, 2013, 185, 817-834.	1.2	12
134	Thermal and mechanical response of PBX 9501 under contact excitation. Journal of Applied Physics, 2013, 113, 084904.	1.1	33
135	The diffusion flame structure of an ammonium perchlorate based composite propellant at elevated pressures. Proceedings of the Combustion Institute, 2013, 34, 649-656.	2.4	17
136	Coupling micro and meso-scale combustion models of AP/HTPB propellants. Combustion and Flame, 2013, 160, 982-992.	2.8	59
137	The effect of polymeric binder on composite propellant flame structure investigated with 5 kHz OH PLIF. Combustion and Flame, 2013, 160, 1531-1540.	2.8	18
138	Rheological Characterization of Monomethylhydrazine Gels. Journal of Propulsion and Power, 2013, 29, 313-320.	1.3	28
139	Effects of ammonia borane on the combustion of an ethanol droplet at atmospheric pressure. Combustion and Flame, 2013, 160, 2194-2203.	2.8	19
140	Combustion of Nanoaluminum and Water Propellants: Effect of Equivalence Ratio and Safety/Aging Characterization. Propellants, Explosives, Pyrotechnics, 2013, 38, 56-66.	1.0	35
141	Altering Reactivity of Aluminum with Selective Inclusion of Polytetrafluoroethylene through Mechanical Activation. Propellants, Explosives, Pyrotechnics, 2013, 38, 286-295.	1.0	121
142	Modifying Aluminum Reactivity with Poly(Carbon Monofluoride) via Mechanical Activation. Propellants, Explosives, Pyrotechnics, 2013, 38, 321-326.	1.0	22
143	Oxy-fuel combustion: Laboratory experiments and pilot scale tests. Fuel, 2013, 104, 452-461.	3.4	14
144	An experimental and numerical study of blast induced shock wave mitigation in sandwich structures. Applied Acoustics, 2013, 74, 1-9.	1.7	22

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145	Combustion of micron-aluminum and hydrogen peroxide propellants. Combustion and Flame, 2013, 160, 184-190.	2.8	37
146	Performance of Dicyclopentadiene (DCPD)/Gaseous Oxygen Based Hybrid Rocket Propellants with Pyrophoric Fuel Additives. , 2013, , .		1
147	X-Band Microwave Properties and Ignition Predictions of Neat Explosives. Propellants, Explosives, Pyrotechnics, 2013, 38, 810-817.	1.0	24
148	Performance of Dicyclopentadiene/H2O2-Based Hybrid Rocket Motors with Metal Hydride Additives. Journal of Propulsion and Power, 2013, 29, 1122-1129.	1.3	35
149	Microexplosion Investigation of Monomethylhydrazine Gelled Droplet with OH Planar Laser-Induced Fluorescence. Journal of Propulsion and Power, 2013, 29, 1303-1310.	1.3	24
150	Feasibility Study and Demonstration of an Aluminum and Ice Solid Propellant. International Journal of Aerospace Engineering, 2012, 2012, 1-11.	0.5	34
151	Fluoropolymer and aluminum piezoelectric reactives. AIP Conference Proceedings, 2012, , .	0.3	12
152	Experimental analysis of blast mitigation associated with water sheets. , 2012, , .		0
153	Microstructural effects on ignition sensitivity in Ni/Al systems subjected to high strain rate impacts. AIP Conference Proceedings, 2012, , .	0.3	2
154	Detonation failure characterization of non-ideal explosives. AIP Conference Proceedings, 2012, , .	0.3	4
155	Paraffin Fuel and Additive Combustion in an Opposed Flow Burner Configuration. , 2012, , .		4
156	Critical Ignition Criteria for Monomethylhydrazine and Red Fuming Nitric Acid in an Impinging Jet Apparatus. , 2012, , .		3
157	Preparation and Characterization of Energetic Crystals with Nanoparticle Inclusions. Propellants, Explosives, Pyrotechnics, 2012, 37, 635-638.	1.0	19
158	Tuning azolium azolate ionic liquids to promote surface interactions with titanium nanoparticles leading to increased passivation and colloidal stability. Physical Chemistry Chemical Physics, 2012, 14, 13194.	1.3	8
159	Hypergolic ionic liquids to mill, suspend, and ignite boron nanoparticles. Chemical Communications, 2012, 48, 4311.	2.2	72
160	Tailored Reactivity of Ni+Al Nanocomposites: Microstructural Correlations. Journal of Physical Chemistry C, 2012, 116, 21027-21038.	1.5	97
161	Experimental observation of the flame structure of a bimodal ammonium perchlorate composite propellant using 5 kHz PLIF. Combustion and Flame, 2012, 159, 427-437.	2.8	29
162	An experimental study of the effects of catalysts on an ammonium perchlorate based composite propellant using 5kHz PLIF. Combustion and Flame, 2012, 159, 1748-1758.	2.8	49

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163	COMBUSTION OF BIMODAL ALUMINUM PARTICLES AND ICE MIXTURES. International Journal of Energetic Materials and Chemical Propulsion, 2012, 11, 259-273.	0.2	9
164	Intermetallic Compounds as Fuels for Composite Rocket Propellants. , 2011, , .		12
165	Experimental modeling of explosive blast-related traumatic brain injuries. NeuroImage, 2011, 54, S45-S54.	2.1	50
166	Ignition of Gelled Monomethylhydrazine and Red Fuming Nitric Acid in an Impinging Jet Apparatus. , 2011, , .		11
167	Burning Rates of Nano-Aluminum/ FC-2175/ Nickel Oxide Composites as a Function of Doping, Pressure and Magnetic Field. , 2011, , .		0
168	Mechanical activation and gasless explosion: Nanostructural aspects. Chemical Engineering Journal, 2011, 174, 677-686.	6.6	59
169	Nano Aluminum Energetics: The Effect of Synthesis Method on Morphology and Combustion Performance. Propellants, Explosives, Pyrotechnics, 2011, 36, 551-557.	1.0	23
170	Development of a Novel Thermoelectric Propellant Temperature Controller for Stand Burning Studies. , 2011, , .		0
171	Further Development of an Aluminum and Water Solid Rocket Propellant. , 2011, , .		6
172	Validation of Numerical Simulations for Nano-Aluminum Composite Solid Propellants. Journal of Propulsion and Power, 2011, 27, 1280-1287.	1.3	12
173	Dynamics of phase transformation during thermal explosion in the Alâ€“Ni system: Influence of mechanical activation. Physica B: Condensed Matter, 2010, 405, 778-784.	1.3	91
174	Combustion of Silicon/Teflon/Viton and Aluminum/Teflon/Viton Energetic Composites. Journal of Propulsion and Power, 2010, 26, 734-743.	1.3	66
175	Kinetics of High Temperature Reaction in Ni-Al System: Influence of Mechanical Activation. Journal of Physical Chemistry A, 2010, 114, 6111-6116.	1.1	81
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