

Alexander S Tappan

List of Publications by Year in descending order

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papers

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1478505

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#	ARTICLE	IF	CITATIONS
1	Non-Contact Mass Density and Thermal Conductivity Measurements of Organic Thin Films Using Frequency-Domain Thermoreflectance. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	4
2	Reactive burn model calibration using high-throughput initiation experiments at sub-millimeter length scales. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	2
3	Investigating growth to detonation in vapor-deposited hexanitrostilbene and pentaerythritol tetranitrate films using high-throughput methods. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	3
4	Refractive Imaging of Air Shock Above Microscale Defects in Pentaerythritol Tetranitrate (PETN) Films. <i>Propellants, Explosives, Pyrotechnics</i> , 2021, 46, 39-45.	1.6	1
5	Engineering the Microstructure and Morphology of Explosive Films <i>via</i> Control of Interfacial Energy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1670-1681.	8.0	5
6	Shock interactions in multilayer explosive films. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
7	Observations of shock-induced chemistry with subnanosecond resolution. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	4
8	Ultrafast Shock-Induced Reactions in Pentaerythritol Tetranitrate Thin Films. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8101-8106.	2.5	7
9	Effect of microstructure on the detonation behavior of vapor-deposited pentaerythritol tetranitrate (PETN) films. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	9
10	Near-failure detonation behavior of vapor-deposited hexanitrostilbene (HNS) films. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	10
11	Characterizing the growth to detonation in HNS with small-scale PDV <i>cutback</i> experiments. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
12	There's plenty of room in the middle - microenergetics, the mesoscale, and interfaces. <i>Propellants, Explosives, Pyrotechnics</i> , 2013, 38, 475-475.	1.6	5
13	Critical detonation thickness in vapor-deposited pentaerythritol tetranitrate (PETN) films. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	16
14	Microstructure Evolution during Crystallization of Vapor-Deposited Hexanitroazobenzene Films. <i>Propellants, Explosives, Pyrotechnics</i> , 2012, 37, 459-467.	1.6	18
15	Controlling the microstructure of vapor-deposited pentaerythritol tetranitrate films. <i>Journal of Materials Research</i> , 2011, 26, 1605-1613.	2.6	31