Alexander S Tappan

List of Publications by Year
in descending order

15	120	1478505 6	1281871 11
papers	citations	h-index	g-index

15	15	15	84
all docs	docs citations	times ranked	citing authors

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