James E Hammerberg

List of Publications by Year
in descending order

31 papers	922 citations	623734 14 h-index	501196 28 g-index
32 all docs	32 docs citations	32 times ranked	254 citing authors

#	Article	IF	Citations
1	Effects of shock-breakout pressure on ejection of micron-scale material from shocked tin surfaces. Journal of Applied Physics, 2007, 102, 013522.	2.5	132
2	Probing the underlying physics of ejecta production from shocked Sn samples. Journal of Applied Physics, 2008, 103, .	2.5	117
3	Piezoelectric characterization of ejecta from shocked tin surfaces. Journal of Applied Physics, 2005, 98, 113508.	2.5	109
4	Unlubricated Sliding Behavior of Metals. MRS Bulletin, 1998, 23, 32-36.	3.5	92
5	Experimental observations on the links between surface perturbation parameters and shock-induced mass ejection. Journal of Applied Physics, 2014, 116, .	2.5	75
6	Dynamic comparisons of piezoelectric ejecta diagnostics. Journal of Applied Physics, 2007, 101, 063547.	2.5	69
7	On shock driven jetting of liquid from non-sinusoidal surfaces into a vacuum. Journal of Applied Physics, 2015, 118, .	2.5	67
8	INFLUENCE OF SHOCKWAVE PROFILE ON EJECTA. AIP Conference Proceedings, 2009, , .	0.4	39
9	Ejecta Transport, Breakup and Conversion. Journal of Dynamic Behavior of Materials, 2017, 3, 334-345.	1.7	30
10	A Source Model for Ejecta. Journal of Dynamic Behavior of Materials, 2017, 3, 316-320.	1.7	23
11	Nonequilibrium molecular dynamics simulations of metallic friction at Ta/Al and Cu/Ag interfaces. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 2741-2745.	2.2	22
12	A numerical study of bubble and spike velocities in shock-driven liquid metals. Journal of Applied Physics, 2018, 123, .	2.5	20
13	The birth of dislocations in shock waves and high-speed friction. Journal of Computer-Aided Materials Design, 1998, 5, 207-224.	0.7	19
14	Influence of shockwave profile on ejection of micron-scale material from shocked Sn surfaces: An experimental study. , 2009, , .		19
15	Ejecta Production from Second Shock: Numerical Simulations and Experiments. Journal of Dynamic Behavior of Materials, 2017, 3, 265-279.	1.7	16
16	Large-scale molecular dynamics simulations of particulate ejection and Richtmyer-Meshkov instability development in shocked copper. , 2009, , .		14
17	Proton radiography measurements and models of ejecta structure in shocked Sn. AIP Conference Proceedings, 2018, , .	0.4	11
18	Understanding the transport and break up of reactive ejecta. Physica D: Nonlinear Phenomena, 2021, 415, 132787.	2.8	10

#	Article	IF	Citations
19	Frictional interactions at high velocity ductile metal interfaces. Journal of Physics: Conference Series, 2014, 500, 172003.	0.4	5
20	Grain dynamics in compressed polycrystalline Al interfaces sliding at high velocities. AIP Conference Proceedings, 2017, , .	0.4	3
21	Density functional theory study of cerium deuterides. AIP Conference Proceedings, 2018, , .	0.4	3
22	Large-scale molecular dynamics studies of sliding friction in nanocrystalline aluminum. AIP Conference Proceedings, 2018, , .	0.4	3
23	Studies of reactive and nonreactive metalsâ€“ejectaâ€“transporting nonreactive and reactive gases and vacuum. AIP Conference Proceedings, 2020, , .	0.4	3
24	Large-scale atomistic studies of sliding friction in polycrystalline aluminum interfaces. Journal of Applied Physics, 2022, 131, .	2.5	3
25	Nanoscale Structure and High Velocity Sliding at Cu/Ag Interfaces. Materials Research Society Symposia Proceedings, 2004, 821, 216.	0.1	2
26	The temperatures of ejecta transporting in vacuum and gases. Journal of Applied Physics, 2022, 131, 195104.	2.5	2
27	Friction in high-speed impact experiments. AIP Conference Proceedings, 2000, , .	0.4	1
28	A Novel Experimental Technique for the Study of High-Speed Friction under Elastic Loading Conditions. AIP Conference Proceedings, 2004, , .	0.4	1
29	Sliding Friction at Compressed Ta/Al Interfaces. AIP Conference Proceedings, 2004, , .	0.4	1
30	An analytic solution to a driven interface problem. , 1998, , .		0
31	Time dependent boundary conditions for large scale atomistic simulations of Richtmyer-Meshkov instabilities. AIP Conference Proceedings, 2020, , .	0.4	0