

James E Hammerberg

List of Publications by Year in descending order

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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	Large-scale atomistic studies of sliding friction in polycrystalline aluminum interfaces. Journal of Applied Physics, 2022, 131, .	2.5	3
2	The temperatures of ejecta transporting in vacuum and gases. Journal of Applied Physics, 2022, 131, 195104.	2.5	2
3	Understanding the transport and break up of reactive ejecta. Physica D: Nonlinear Phenomena, 2021, 415, 132787.	2.8	10
4	Studies of reactive and nonreactive metalsâ€™ejectaâ€™transporting nonreactive and reactive gases and vacuum. AIP Conference Proceedings, 2020, , .	0.4	3
5	Time dependent boundary conditions for large scale atomistic simulations of Richtmyer-Meshkov instabilities. AIP Conference Proceedings, 2020, , .	0.4	0
6	A numerical study of bubble and spike velocities in shock-driven liquid metals. Journal of Applied Physics, 2018, 123, .	2.5	20
7	Density functional theory study of cerium deuterides. AIP Conference Proceedings, 2018, , .	0.4	3
8	Large-scale molecular dynamics studies of sliding friction in nanocrystalline aluminum. AIP Conference Proceedings, 2018, , .	0.4	3
9	Proton radiography measurements and models of ejecta structure in shocked Sn. AIP Conference Proceedings, 2018, , .	0.4	11
10	Ejecta Production from Second Shock: Numerical Simulations and Experiments. Journal of Dynamic Behavior of Materials, 2017, 3, 265-279.	1.7	16
11	A Source Model for Ejecta. Journal of Dynamic Behavior of Materials, 2017, 3, 316-320.	1.7	23
12	Ejecta Transport, Breakup and Conversion. Journal of Dynamic Behavior of Materials, 2017, 3, 334-345.	1.7	30
13	Grain dynamics in compressed polycrystalline Al interfaces sliding at high velocities. AIP Conference Proceedings, 2017, , .	0.4	3
14	On shock driven jetting of liquid from non-sinusoidal surfaces into a vacuum. Journal of Applied Physics, 2015, 118, .	2.5	67
15	Experimental observations on the links between surface perturbation parameters and shock-induced mass ejection. Journal of Applied Physics, 2014, 116, .	2.5	75
16	Frictional interactions at high velocity ductile metal interfaces. Journal of Physics: Conference Series, 2014, 500, 172003.	0.4	5
17	INFLUENCE OF SHOCKWAVE PROFILE ON EJECTA. AIP Conference Proceedings, 2009, , .	0.4	39
18	Influence of shockwave profile on ejection of micron-scale material from shocked Sn surfaces: An experimental study. , 2009, , .		19

#	ARTICLE	IF	CITATIONS
19	Large-scale molecular dynamics simulations of particulate ejection and Richtmyer-Meshkov instability development in shocked copper. , 2009, , .		14
20	Probing the underlying physics of ejecta production from shocked Sn samples. Journal of Applied Physics, 2008, 103, .	2.5	117
21	Dynamic comparisons of piezoelectric ejecta diagnostics. Journal of Applied Physics, 2007, 101, 063547.	2.5	69
22	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
23	Piezoelectric characterization of ejecta from shocked tin surfaces. Journal of Applied Physics, 2005, 98, 113508.	2.5	109
24	A Novel Experimental Technique for the Study of High-Speed Friction under Elastic Loading Conditions. AIP Conference Proceedings, 2004, , .	0.4	1
25	Nanoscale Structure and High Velocity Sliding at Cu/Ag Interfaces. Materials Research Society Symposia Proceedings, 2004, 821, 216.	0.1	2
26	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
27	Sliding Friction at Compressed Ta/Al Interfaces. AIP Conference Proceedings, 2004, , .	0.4	1
28	Friction in high-speed impact experiments. AIP Conference Proceedings, 2000, , .	0.4	1
29	The birth of dislocations in shock waves and high-speed friction. Journal of Computer-Aided Materials Design, 1998, 5, 207-224.	0.7	19
30	Unlubricated Sliding Behavior of Metals. MRS Bulletin, 1998, 23, 32-36.	3.5	92
31	An analytic solution to a driven interface problem. , 1998, , .		0