

Mostafa Hassani-Gangaraj

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,008
citations

567281

15
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

512
citing authors

#	ARTICLE	IF	CITATIONS
1	Adiabatic shear instability is not necessary for adhesion in cold spray. <i>Acta Materialia</i> , 2018, 158, 430-439.	7.9	213
2	In-situ observations of single micro-particle impact bonding. <i>Scripta Materialia</i> , 2018, 145, 9-13.	5.2	162
3	Melt-driven erosion in microparticle impact. <i>Nature Communications</i> , 2018, 9, 5077.	12.8	71
4	A Review of the Mechanical and Tribological Behavior of Cold Spray Metal Matrix Composites. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 1565-1608.	3.1	65
5	Melting Can Hinder Impact-Induced Adhesion. <i>Physical Review Letters</i> , 2017, 119, 175701.	7.8	64
6	Impact-bonding with aluminum, silver, and gold microparticles: Toward understanding the role of native oxide layer. <i>Applied Surface Science</i> , 2019, 476, 528-532.	6.1	60
7	Response to Comment on "Adiabatic shear instability is not necessary for adhesion in cold spray". <i>Scripta Materialia</i> , 2019, 162, 515-519.	5.2	54
8	High-velocity micro-projectile impact testing. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	46
9	Material hardness at strain rates beyond 10^6 s^{-1} via high velocity microparticle impact indentation. <i>Scripta Materialia</i> , 2020, 177, 198-202.	5.2	44
10	Particle size effects in metallic microparticle impact-bonding. <i>Acta Materialia</i> , 2020, 194, 40-48.	7.9	42
11	Surface oxide and hydroxide effects on aluminum microparticle impact bonding. <i>Acta Materialia</i> , 2020, 197, 28-39.	7.9	32
12	Microparticle impact-bonding modes for mismatched metals: From co-deformation to splatting and penetration. <i>Acta Materialia</i> , 2020, 199, 480-494.	7.9	31
13	CoCrNi matrix high-temperature wear resistant composites with micro- and nano- Al_2O_3 reinforcement. <i>Composites Communications</i> , 2020, 22, 100461.	6.3	22
14	Granular shape memory ceramic packings. <i>Acta Materialia</i> , 2017, 132, 455-466.	7.9	20
15	Unravelling the deposition mechanism of brittle particles in metal matrix composites fabricated via cold spray additive manufacturing. <i>Scripta Materialia</i> , 2021, 194, 113614.	5.2	20
16	Effect of Ni, W and Mo on the microstructure, phases and high-temperature sliding wear performance of CoCr matrix alloys. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 229-241.	6.1	16
17	Ultra-High Strain Rate Constitutive Modeling of Pure Titanium Using Particle Impact Test. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	2.2	14
18	Glass fracture by focusing of laser-generated nanosecond surface acoustic waves. <i>Scripta Materialia</i> , 2019, 158, 42-45.	5.2	10

#	ARTICLE	IF	CITATIONS
19	High-Temperature Wear Behavior of Cobalt Matrix Composites Reinforced by LaF ₃ and CeO ₂ . Tribology Letters, 2021, 69, 1.	2.6	10
20	Synchrotron X-ray diffraction studies of the phase-specific deformation in additively manufactured Niâ€“CrC composites. Composites Part B: Engineering, 2021, 222, 109086.	12.0	6
21	Impact and bonding behavior of core-shell powder particles. Surface and Coatings Technology, 2022, 441, 128591.	4.8	6