

Hamid Assadi

List of Publications by Year in descending order

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69
papers

6,659
citations

147726

31
h-index

98753

67
g-index

70
all docs

70
docs citations

70
times ranked

3079
citing authors

#	ARTICLE	IF	CITATIONS
1	Features of ceramic nanoparticle deformation in aerosol deposition explored by molecular dynamics simulation. <i>Surface and Coatings Technology</i> , 2022, 429, 127886.	2.2	16
2	Numerical and Experimental Analysis of the Deformation Behavior of CoCrFeNiMn High Entropy Alloy Particles onto Various Substrates During Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 1085-1111.	1.6	7
3	Intermetallic Phase Evolution of Cold-Sprayed Ni-Ti Composite Coatings: Influence of As-Sprayed Chemical Composition. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 119-130.	1.6	14
4	Bonding and microstructure evolution in electromagnetic pulse welding of hardenable Al alloys. <i>Journal of Materials Processing Technology</i> , 2021, 290, 116965.	3.1	9
5	Size Effects of Brittle Particles in Aerosol Deposition—Molecular Dynamics Simulation. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 503-522.	1.6	19
6	Modelling of Microstructure Evolution during Laser Processing of Intermetallic Containing Ni-Al Alloys. <i>Metals</i> , 2021, 11, 1051.	1.0	5
7	Dynamic microstructure evolution in cold sprayed Ni Ti composite coatings. <i>Surface and Coatings Technology</i> , 2021, 421, 127456.	2.2	10
8	Cold spray deformation and deposition of blended feedstock powders not necessarily obey the rule of mixture. <i>Surface and Coatings Technology</i> , 2021, 424, 127644.	2.2	19
9	Numerical modelling of melt-conditioned direct-chill casting. <i>Applied Mathematical Modelling</i> , 2020, 77, 1310-1330.	2.2	29
10	Effect of substrate on the properties of cold sprayed coating of WC-10Ni. <i>Advances in Materials and Processing Technologies</i> , 2020, , 1-14.	0.8	1
11	Solid-state additive manufacturing of porous Ti-6Al-4V by supersonic impact. <i>Applied Materials Today</i> , 2020, 21, 100865.	2.3	15
12	Particle Compression Test: A Key Step towards Tailoring of Feedstock Powder for Cold Spraying. <i>Coatings</i> , 2020, 10, 458.	1.2	20
13	Comparison of Stellite coatings on low carbon steel produced by CGS and HVOF spraying. <i>Surface and Coatings Technology</i> , 2019, 372, 299-311.	2.2	13
14	The effect of traverse speed on deposition efficiency of cold sprayed Stellite 21. <i>Surface and Coatings Technology</i> , 2019, 366, 24-34.	2.2	26
15	The role of deposition sequence in cold spraying of dissimilar materials. <i>Surface and Coatings Technology</i> , 2019, 367, 75-85.	2.2	27
16	Comment on “Adiabatic shear instability is not necessary for adhesion in cold spray”. <i>Scripta Materialia</i> , 2019, 162, 512-514.	2.6	59
17	A Review of Advanced Composite and Nanostructured Coatings by Solid-State Cold Spraying Process. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2019, 44, 109-156.	6.8	50
18	Asymmetrical bonding in cold spraying of dissimilar materials. <i>Applied Surface Science</i> , 2018, 444, 621-632.	3.1	37

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19	Effect of Feedstock Powder Morphology on Cold-Sprayed Titanium Dioxide Coatings. Journal of Thermal Spray Technology, 2018, 27, 1542-1550.	1.6	7
20	Influence of thermal properties and temperature of substrate on the quality of cold-sprayed deposits. Acta Materialia, 2017, 127, 287-301.	3.8	79
21	Cold spraying " A materials perspective. Acta Materialia, 2016, 116, 382-407.	3.8	607
22	Strain-Induced Phase Transformation of MCrAlY. Advanced Engineering Materials, 2015, 17, 723-731.	1.6	16
23	Determination of plastic constitutive properties of microparticles through single particle compression. Advanced Powder Technology, 2015, 26, 1544-1554.	2.0	31
24	Microstructure and mechanical properties of friction stir processed AISI 316L stainless steel. Materials & Design, 2015, 67, 82-94.	5.1	132
25	Prediction of solidification cracking in pulsed laser welding of 2024 aluminum alloy. Acta Materialia, 2015, 82, 491-502.	3.8	107
26	Cold Spraying of Amorphous Cu50Zr50 Alloys. Journal of Thermal Spray Technology, 2014, 24, 108.	1.6	10
27	Analysis of Thermal History and Residual Stress in Cold-Sprayed Coatings. Journal of Thermal Spray Technology, 2014, 23, 84-90.	1.6	60
28	Impact Behavior of Intrinsically Brittle Nanoparticles: A Molecular Dynamics Perspective. Journal of Thermal Spray Technology, 2014, 23, 541-550.	1.6	40
29	Improvement in cavitation erosion resistance of AISI 316L stainless steel by friction stir processing. Applied Surface Science, 2014, 308, 184-192.	3.1	89
30	Solidification crack initiation and propagation in pulsed laser welding of wrought heat treatable aluminium alloy. Science and Technology of Welding and Joining, 2014, 19, 250-255.	1.5	33
31	Effect of applied load on the dry sliding wear behaviour and the subsurface deformation on hybrid metal matrix composite. Wear, 2013, 305, 291-298.	1.5	130
32	Modeling of Grain Structure and Heat-Affected Zone in Laser Surface Melting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 1041-1048.	1.0	8
33	Segregation engineering enables nanoscale martensite to austenite phase transformation at grain boundaries: A pathway to ductile martensite. Acta Materialia, 2013, 61, 6132-6152.	3.8	264
34	Microstructure and Mechanical Properties of a Dissimilar Friction Stir Weld between Austenitic Stainless Steel and Low Carbon Steel. Journal of Materials Science and Technology, 2013, 29, 367-372.	5.6	71
35	Intelligent driving in traffic systems with partial lane discipline. European Physical Journal B, 2013, 86, 1.	0.6	1
36	Modelling of electroreduction of porous oxides in molten salt. Computational Materials Science, 2012, 53, 1-5.	1.4	10

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37	Microstructural characterization in dissimilar friction stir welding between 304 stainless steel and st37 steel. <i>Materials Characterization</i> , 2012, 74, 28-41.	1.9	81
38	Phase-field modelling of self-propagating high-temperature synthesis of NiAl. <i>Acta Materialia</i> , 2012, 60, 4041-4053.	3.8	14
39	Evaluation of microstructure and wear behavior of friction stir processed cast aluminum alloy. <i>Materials Characterization</i> , 2012, 63, 90-97.	1.9	105
40	On Parameter Selection in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2011, 20, 1161-1176.	1.6	300
41	Microstructure and tribological performance of an aluminium alloy based hybrid composite produced by friction stir processing. <i>Materials & Design</i> , 2011, 32, 2727-2733.	5.1	211
42	On the formation of grain structure during friction stir welding of duplex stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 6484-6488.	2.6	99
43	Modelling of microstructure evolution in transient-liquid-phase diffusion bonding under temperature gradient. <i>Scripta Materialia</i> , 2009, 60, 780-782.	2.6	23
44	From Particle Acceleration to Impact and Bonding in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2009, 18, 794.	1.6	460
45	Influence of ordering kinetics on dendritic growth morphology. <i>Acta Materialia</i> , 2009, 57, 1639-1647.	3.8	27
46	Mechanical behavior of CrMo steel with tempered martensite and ferriteâ€“bainiteâ€“martensite microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 483-484, 325-328.	2.6	39
47	A study on fracture properties of multiphase microstructures of a CrMo steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 492, 45-48.	2.6	20
48	Effect of friction stir welding speed on the microstructure and mechanical properties of a duplex stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 496, 262-268.	2.6	205
49	Effects of Induction and Convection Aging on Growth Kinetics and Distribution of Nanometric γ' Precipitates in an Ni-Based Superalloy. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
50	A phase-field model for non-equilibrium solidification of intermetallics. <i>Acta Materialia</i> , 2007, 55, 5225-5235.	3.8	20
51	Phase-field modelling of electro-deoxidation in molten salt. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2006, 14, 963-974.	0.8	19
52	Development of a generalized parameter window for cold spray deposition. <i>Acta Materialia</i> , 2006, 54, 729-742.	3.8	930
53	Kinetics of solidification of B2 intermetallic phase in the Niâ€“Al system. <i>Acta Materialia</i> , 2006, 54, 2793-2800.	3.8	53
54	Bonding mechanism in cold gas spraying. <i>Acta Materialia</i> , 2003, 51, 4379-4394.	3.8	1,388

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55	Microstructural and macroscopic properties of cold sprayed copper coatings. Journal of Applied Physics, 2003, 93, 10064-10070.	1.1	213
56	Crystal nucleation in deeply undercooled melts of bulk metallic glass forming systems. Acta Materialia, 2002, 50, 89-100.	3.8	58
57	Deformation Microstructure of Cold Gas Sprayed Coatings. Materials Research Society Symposia Proceedings, 2001, 673, 1.	0.1	8
58	Transient liquid phase diffusion bonding under a temperature gradient: modelling of the interface morphology. Acta Materialia, 2001, 49, 31-39.	3.8	65
59	Interface evolution and bond strength when diffusion bonding materials with stable oxide films. Surface and Interface Analysis, 2001, 31, 609-618.	0.8	94
60	Kinetics of solidification of intermetallic compounds in the Ni-Al system. Acta Materialia, 1998, 46, 491-500.	3.8	41
61	Modelling of kinetics of solidification of intermetallic compounds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 70-74.	2.6	8
62	Rapid solidification of intermetallic compounds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 133-141.	2.6	32
63	The interfacial undercooling in solidification. Journal of Crystal Growth, 1997, 172, 249-258.	0.7	18
64	Site-ordering effects on element partitioning during rapid solidification of alloys. Nature, 1996, 383, 150-152.	13.7	27
65	Development of Microstructure in Rapidly Solidified Intermetallics. Materials Research Society Symposia Proceedings, 1995, 398, 75.	0.1	1
66	Solidification of Intermetallic Compounds. Materials Research Society Symposia Proceedings, 1995, 400, 173.	0.1	1
67	Application of Disorder Trapping Theory to the Solidification of Ni ₃ Al. ISIJ International, 1995, 35, 574-579.	0.6	20
68	Competitive Phase Selection in Fe-Ni Alloy Droplets. Materials Research Society Symposia Proceedings, 1995, 398, 51.	0.1	1
69	Modelling of Microstructure Evolution during Thermal Processes - A Hybrid Deterministic-Probabilistic Approach. Materials Science Forum, 0, 704-705, 63-70.	0.3	0