

Hamid Garmestani

List of Publications by Year in descending order

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53
papers

1,404
citations

279487

23
h-index

344852

36
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55
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55
docs citations

55
times ranked

1664
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Yield Strength of Selective Laser Melted Ti-6Al-4V Alloy Using Melt Pool Geometry. Journal of Engineering Materials and Technology, Transactions of the ASME, 2022, 144, .	0.8	0
2	Prediction of molten pool size and vapor depression depth in keyhole melting mode of laser powder bed fusion. International Journal of Advanced Manufacturing Technology, 2022, 119, 6215-6223.	1.5	4
3	Prediction of Upper Surface Roughness in Laser Powder Bed Fusion. Metals, 2022, 12, 11.	1.0	14
4	Influence of nitrogen concentration on electrical, mechanical, and structural properties of tantalum nitride thin films prepared via DC magnetron sputtering. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	33
5	Microstructure affected residual stress prediction based on mechanical threshold stress in direct metal deposition of Ti-6Al-4 V. International Journal of Advanced Manufacturing Technology, 2021, 112, 1705-1712.	1.5	2
6	Study on Wear Model and Adhesive Wear Mechanism of Brass under Boundary Lubrication. Protection of Metals and Physical Chemistry of Surfaces, 2021, 57, 367-373.	0.3	8
7	Residual stress modeling considering microstructure evolution in metal additive manufacturing. Journal of Manufacturing Processes, 2021, 68, 383-397.	2.8	27
8	Evaluation of the influence of B and Nb microalloying on the microstructure and strength of 18% Ni maraging steels (C350) using hardness, spherical indentation and tensile tests. Acta Materialia, 2021, 215, 117071.	3.8	7
9	Investigation of Effects of Copper, Zinc, and Strontium Doping on Electrochemical Properties of Titania Nanotube Arrays for Neural Interface Applications. Processes, 2021, 9, 2099.	1.3	1
10	Opposite Sensing Response of Heterojunction Gas Sensors Based on SnO ₂ -Cr ₂ O ₃ Nanocomposites to H ₂ against CO and Its Selectivity Mechanism. Langmuir, 2021, 37, 13548-13558.	1.6	42
11	Inhibition of stress corrosion cracking in 304 stainless steel through titanium ion implantation. Materials Science and Technology, 2020, 36, 284-292.	0.8	24
12	Analytical modeling of part porosity in metal additive manufacturing. International Journal of Mechanical Sciences, 2020, 172, 105428.	3.6	67
13	Analytical modeling of in-process temperature in powder feed metal additive manufacturing considering heat transfer boundary condition. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 585-593.	2.7	28
14	Analytical Modeling of Residual Stress in Laser Powder Bed Fusion Considering Volume Conservation in Plastic Deformation. Modelling, 2020, 1, 242-259.	0.8	6
15	Prediction of the deformation behavior of a selective laser-melted Ti-6Al-4V alloy as a function of process parameters. International Journal of Advanced Manufacturing Technology, 2020, 107, 4069-4076.	1.5	3
16	High-Throughput Exploration of the Process Space in 18% Ni (350) Maraging Steels via Spherical Indentation Stress-Strain Protocols and Gaussian Process Models. Integrating Materials and Manufacturing Innovation, 2020, 9, 199-212.	1.2	10
17	Thermo-mechanical modeling of thermal stress in metal additive manufacturing considering elastoplastic hardening. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 52-67.	2.3	38
18	Analytical Thermal Modeling of Powder Bed Metal Additive Manufacturing Considering Powder Size Variation and Packing. Materials, 2020, 13, 1988.	1.3	13

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19	Three-dimensional semi-elliptical modeling of melt pool geometry considering hatch spacing and time spacing in metal additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2019, 45, 532-543.	2.8	30
20	Tin dioxide nanoparticles with high sensitivity and selectivity for gas sensors at sub-ppm level of hydrogen gas detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14687-14694.	1.1	72
21	Analytical modeling of transient temperature in powder feed metal additive manufacturing during heating and cooling stages. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	36
22	Analytical modeling of 3D temperature distribution in selective laser melting of Ti-6Al-4V considering part boundary conditions. <i>Journal of Manufacturing Processes</i> , 2019, 44, 319-326.	2.8	68
23	Heat Source Modeling in Selective Laser Melting. <i>Materials</i> , 2019, 12, 2052.	1.3	65
24	Analytical Thermal Modeling of Metal Additive Manufacturing by Heat Sink Solution. <i>Materials</i> , 2019, 12, 2568.	1.3	28
25	Statistical, morphological, and corrosion behavior of PECVD derived cobalt oxide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 21185-21198.	1.1	51
26	Through-Thickness Strain Gradient in a Hot-Rolled Al-Mg Alloy Obtained by Nanoindentation and Glancing Angle X-Ray Diffraction. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6897-6903.	1.2	1
27	Grain size sensitive MTS model for Ti-6Al-4V machining force and residual stress prediction. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 2173-2181.	1.5	4
28	Analytical Modeling of In-Process Temperature in Powder Bed Additive Manufacturing Considering Laser Power Absorption, Latent Heat, Scanning Strategy, and Powder Packing. <i>Materials</i> , 2019, 12, 808.	1.3	92
29	Modeling of texture development in additive manufacturing of Ni-based superalloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 1057-1066.	1.5	20
30	Residual stress prediction based on MTS model during machining of Ti-6Al-4V. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 3743-3750.	1.1	8
31	Residual stress prediction for turning of Ti-6Al-4V considering the microstructure evolution. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019, 233, 109-117.	1.5	22
32	Finite element simulation of residual stress in machining of Ti-6Al-4V with a microstructural consideration. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019, 233, 1103-1111.	1.5	34
33	A screen printed carbon electrode modified with carbon nanotubes and gold nanoparticles as a sensitive electrochemical sensor for determination of thiamphenicol residue in milk. <i>RSC Advances</i> , 2018, 8, 2714-2722.	1.7	54
34	The effects of dynamic evolution of microstructure on machining forces. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 2677-2681.	1.5	15
35	Biomimetic synthesis of two different types of renewable cellulosic nanomaterials for scaffolding in tissue engineering. <i>Green Processing and Synthesis</i> , 2018, 7, 181-190.	1.3	4
36	Modeling of Ti-6Al-4V machining force considering material microstructure evolution. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2673-2680.	1.5	33

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37	MTS model based force prediction for machining of Ti-6Al-4V. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2017, 11, JAMDSM0033-JAMDSM0033.	0.3	5
38	Efficient three-phase reconstruction of heterogeneous material from 2D cross-sections via phase-recovery algorithm. Journal of Microscopy, 2016, 264, 384-393.	0.8	20
39	Prediction of machining-induced phase transformation and grain growth of Ti-6Al-4V alloy. International Journal of Advanced Manufacturing Technology, 2016, 87, 859-866.	1.5	75
40	Nanotubes: An Experimental Insight into the Structural and Electronic Characteristics of Strontium-Doped Titanium Dioxide Nanotube Arrays (Adv. Funct. Mater. 43/2014). Advanced Functional Materials, 2014, 24, 6782-6782.	7.8	1
41	An Experimental Insight into the Structural and Electronic Characteristics of Strontium-Doped Titanium Dioxide Nanotube Arrays. Advanced Functional Materials, 2014, 24, 6783-6796.	7.8	49
42	Comparison of chemical vapor deposition and chemical grafting for improving the mechanical properties of carbon fiber/epoxy composites with multi-wall carbon nanotubes. Journal of Materials Science, 2013, 48, 4834-4842.	1.7	64
43	Effect of Moderate Magnetic Annealing on the Microstructure, Quasi-Static, and Viscoelastic Mechanical Behavior of a Structural Epoxy. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	0.8	1
44	Qualitative Equivalence Between Electrical Percolation Threshold and Effective Thermal Conductivity in Polymer/Carbon Nanocomposites. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	0.8	2
45	A modified strong-contrast expansion for estimating the effective thermal conductivity of multiphase heterogeneous materials. Journal of Applied Physics, 2012, 112, .	1.1	25
46	Anodically Fabricated Sr-doped TiO ₂ Nanotube Arrays for Photoelectrochemical Water Splitting Applications. Materials Research Society Symposia Proceedings, 2011, 1352, 151.	0.1	0
47	Magnetic alignment of cellulose nanowhiskers in an all-cellulose composite. Polymer Bulletin, 2010, 65, 635-642.	1.7	53
48	Modeling of Biologically Inspired Adhesive Pads Using Monte Carlo Analysis. Journal of Adhesion Science and Technology, 2010, 24, 1207-1220.	1.4	1
49	Stress Corrosion Cracking Behavior of Peened Friction Stir Welded 2195 Aluminum Alloy Joints. Journal of Materials Engineering and Performance, 2009, 18, 406-413.	1.2	25
50	Hydroxyapatite Modified with Carbon Nanotube Reinforced Poly(methyl methacrylate): A Nanocomposite Material for Biomedical Applications. Advanced Functional Materials, 2008, 18, 694-700.	7.8	109
51	Surfactant Effects on the Particle Size and Formation of Iron Oxides via a Sol-Gel Process. ACS Symposium Series, 2008, , 124-138.	0.5	2
52	Controlling Residual Stress in Metal Matrix Ceramic Fiber Composite. Materials Research Society Symposia Proceedings, 2006, 977, 1.	0.1	0
53	FeCo nanoalloy formation by decomposition of their carbonyl precursors. Journal of Materials Chemistry, 2005, , .	6.7	7