

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
all docs

55
docs citations

55
times ranked

1664
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydroxyapatite Modified with Carbon Nanotube Reinforced Poly(methyl methacrylate): A Nanocomposite Material for Biomedical Applications. <i>Advanced Functional Materials</i> , 2008, 18, 694-700.	7.8	109
2	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
3	Prediction of machining-induced phase transformation and grain growth of Ti-6Al-4V alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 859-866.	1.5	75
4	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
5	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
6	Analytical modeling of part porosity in metal additive manufacturing. <i>International Journal of Mechanical Sciences</i> , 2020, 172, 105428.	3.6	67
7	Heat Source Modeling in Selective Laser Melting. <i>Materials</i> , 2019, 12, 2052.	1.3	65
8	Comparison of chemical vapor deposition and chemical grafting for improving the mechanical properties of carbon fiber/epoxy composites with multi-wall carbon nanotubes. <i>Journal of Materials Science</i> , 2013, 48, 4834-4842.	1.7	64
9	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
10	Magnetic alignment of cellulose nanowhiskers in an all-cellulose composite. <i>Polymer Bulletin</i> , 2010, 65, 635-642.	1.7	53
11	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
12	An Experimental Insight into the Structural and Electronic Characteristics of Strontium Doped Titanium Dioxide Nanotube Arrays. <i>Advanced Functional Materials</i> , 2014, 24, 6783-6796.	7.8	49
13	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. <i>Langmuir</i> , 2021, 37, 13548-13558.	1.6	42
14	Thermo-mechanical modeling of thermal stress in metal additive manufacturing considering elastoplastic hardening. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020, 28, 52-67.	2.3	38
15	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
16	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
17	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
18	Influence of nitrogen concentration on electrical, mechanical, and structural properties of tantalum nitride thin films prepared via DC magnetron sputtering. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	1.1	33

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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	Analytical Thermal Modeling of Metal Additive Manufacturing by Heat Sink Solution. <i>Materials</i> , 2019, 12, 2568.	1.3	28
21	Analytical modeling of in-process temperature in powder feed metal additive manufacturing considering heat transfer boundary condition. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 7, 585-593.	2.7	28
22	Residual stress modeling considering microstructure evolution in metal additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2021, 68, 383-397.	2.8	27
23	Stress Corrosion Cracking Behavior of Peened Friction Stir Welded 2195 Aluminum Alloy Joints. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 406-413.	1.2	25
24	A modified strong-contrast expansion for estimating the effective thermal conductivity of multiphase heterogeneous materials. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	25
25	Inhibition of stress corrosion cracking in 304 stainless steel through titanium ion implantation. <i>Materials Science and Technology</i> , 2020, 36, 284-292.	0.8	24
26	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
27	Efficient three-phase reconstruction of heterogeneous material from 2D cross-sections via phase-recovery algorithm. <i>Journal of Microscopy</i> , 2016, 264, 384-393.	0.8	20
28	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
29	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
30	Prediction of Upper Surface Roughness in Laser Powder Bed Fusion. <i>Metals</i> , 2022, 12, 11.	1.0	14
31	Analytical Thermal Modeling of Powder Bed Metal Additive Manufacturing Considering Powder Size Variation and Packing. <i>Materials</i> , 2020, 13, 1988.	1.3	13
32	High-Throughput Exploration of the Process Space in 18% Ni (350) Maraging Steels via Spherical Indentation Stress-Strain Protocols and Gaussian Process Models. <i>Integrating Materials and Manufacturing Innovation</i> , 2020, 9, 199-212.	1.2	10
33	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
34	Study on Wear Model and Adhesive Wear Mechanism of Brass under Boundary Lubrication. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021, 57, 367-373.	0.3	8
35	FeCo nanoalloy formation by decomposition of their carbonyl precursors. <i>Journal of Materials Chemistry</i> , 2005, .	6.7	7
36	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. <i>Acta Materialia</i> , 2021, 215, 117071.	3.8	7

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37	Analytical Modeling of Residual Stress in Laser Powder Bed Fusion Considering Volume Conservation in Plastic Deformation. <i>Modelling</i> , 2020, 1, 242-259.	0.8	6
38	MTS model based force prediction for machining of Ti-6Al-4V. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2017, 11, JAMDSM0033-JAMDSM0033.	0.3	5
39	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
40	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
41	Prediction of molten pool size and vapor depression depth in keyhole melting mode of laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 6215-6223.	1.5	4
42	Prediction of the deformation behavior of a selective laser-melted Ti-6Al-4V alloy as a function of process parameters. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 4069-4076.	1.5	3
43	Surfactant Effects on the Particle Size and Formation of Iron Oxides via a Sol-Gel Process. <i>ACS Symposium Series</i> , 2008, , 124-138.	0.5	2
44	Qualitative Equivalence Between Electrical Percolation Threshold and Effective Thermal Conductivity in Polymer/Carbon Nanocomposites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012, 134, .	0.8	2
45	Microstructure affected residual stress prediction based on mechanical threshold stress in direct metal deposition of Ti-6Al-4 V. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 1705-1712.	1.5	2
46	Modeling of Biologically Inspired Adhesive Pads Using Monte Carlo Analysis. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1207-1220.	1.4	1
47	Effect of Moderate Magnetic Annealing on the Microstructure, Quasi-Static, and Viscoelastic Mechanical Behavior of a Structural Epoxy. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012, 134, .	0.8	1
48	Nanotubes: An Experimental Insight into the Structural and Electronic Characteristics of Strontium-Doped Titanium Dioxide Nanotube Arrays (<i>Adv. Funct. Mater.</i> 43/2014). <i>Advanced Functional Materials</i> , 2014, 24, 6782-6782.	7.8	1
49	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
50	Investigation of Effects of Copper, Zinc, and Strontium Doping on Electrochemical Properties of Titania Nanotube Arrays for Neural Interface Applications. <i>Processes</i> , 2021, 9, 2099.	1.3	1
51	Controlling Residual Stress in Metal Matrix Ceramic Fiber Composite. <i>Materials Research Society Symposia Proceedings</i> , 2006, 977, 1.	0.1	0
52	Anodically Fabricated Sr-doped TiO ₂ Nanotube Arrays for Photoelectrochemical Water Splitting Applications. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1352, 151.	0.1	0
53	Prediction of Yield Strength of Selective Laser Melted Ti-6Al-4V Alloy Using Melt Pool Geometry. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2022, 144, .	0.8	0