

# Sagar H Nikam

## List of Publications by Year in descending order

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13  
papers

152  
citations

1163117

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1199594

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docs citations

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times ranked

137  
citing authors

#	ARTICLE	IF	CITATIONS
1	Powder Reuse in Laser-Based Powder Bed Fusion of Ti6Al4V – Changes in Mechanical Properties during a Powder Top-Up Regime. <i>Materials</i> , 2022, 15, 2238.	2.9	9
2	Analysis of Spatter Removal by Sieving during a Powder-Bed Fusion Manufacturing Campaign in Grade 23 Titanium Alloy. <i>Metals</i> , 2021, 11, 399.	2.3	6
3	A simplified thermal approximation method to include the effects of Marangoni convection in the melt pools of processes that involve moving point heat sources. <i>Numerical Heat Transfer; Part A: Applications</i> , 2021, 79, 537-552.	2.1	8
4	Optimization of parameters of micro-plasma transferred arc additive manufacturing process using real coded genetic algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 1239-1252.	3.0	15
5	Reuse of Grade 23 Ti6Al4V Powder during the Laser-Based Powder Bed Fusion Process. <i>Metals</i> , 2020, 10, 1700.	2.3	20
6	Code-to-code verification for thermal models of melting and solidification in a metal alloy: comparisons between a Finite Volume Method and a Finite Element Method. <i>Mechanical Sciences</i> , 2020, 11, 125-135.	1.0	1
7	Theoretical modeling and finite element simulation of dilution in micro-plasma transferred arc additive manufacturing of metallic materials. <i>International Journal of Mechanical Sciences</i> , 2019, 164, 105166.	6.7	15
8	Modeling and Prediction of Residual Stresses in Additive Layer Manufacturing by Microplasma Transferred Arc Process Using Finite Element Simulation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, .	2.2	14
9	3D-finite element simulation and image processing based prediction of width and height of single-layer deposition by micro-plasma-transferred arc process. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 3679-3691.	3.0	12
10	Finite Element Simulation of Pre-Heating Effect on Melt Pool Size During Micro-Plasma Transferred Arc Deposition Process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 389, 012006.	0.6	2
11	Laser-Based Repair of Damaged Dies, Molds, and Gears. <i>Materials Forming, Machining and Tribology</i> , 2017, , 137-159.	1.1	4
12	Three-dimensional thermal analysis of multi-layer metallic deposition by micro-plasma transferred arc process using finite element simulation. <i>Journal of Materials Processing Technology</i> , 2017, 249, 264-273.	6.3	23
13	Thermal modeling of geometry of single-track deposition in micro-plasma transferred arc deposition process. <i>Journal of Materials Processing Technology</i> , 2016, 230, 121-130.	6.3	23