Dariusz Grzesiak

List of Publications by Year
in descending order

35 papers	2,434 citations	430874 18 h-index	454955 30 g-index
35 all docs	35 docs citations	35 times ranked	1546 citing authors

#	Article	IF	Citations
1	Selective laser melting of TiC reinforced 316L stainless steel matrix nanocomposites: Influence of starting TiC particle size and volume content. Materials and Design, 2016, 104, 141-151.	7.0	214
2	Rapid fabrication of bulk-form TiB2/316L stainless steel nanocomposites with novel reinforcement architecture and improved performance by selective laser melting. Journal of Alloys and Compounds, 2016, 680, 480-493.	5.5	208
3	In-situ formation of novel TiC-particle-reinforced 316L stainless steel bulk-form composites by selective laser melting. Journal of Alloys and Compounds, 2017, 706, 409-418.	5.5	193
4	Scanning strategies for texture and anisotropy tailoring during selective laser melting of TiC/316L stainless steel nanocomposites. Journal of Alloys and Compounds, 2017, 728, 424-435.	5.5	190
5	Novel TiB2-reinforced 316L stainless steel nanocomposites with excellent room- and high-temperature yield strength developed by additive manufacturing. Composites Part B: Engineering, 2019, 156, 51-63.	12.0	185
6	Densification behavior, microstructural evolution, and mechanical properties of TiC/316L stainless steel nanocomposites fabricated by selective laser melting. Materials and Design, 2018, 138, 119-128.	7.0	182
7	Effect of energy density and scanning strategy on densification, microstructure and mechanical properties of 316L stainless steel processed via selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 770, 138455.	5.6	157
8	Nanocrystalline TiC-reinforced H13 steel matrix nanocomposites fabricated by selective laser melting. Materials and Design, 2016, 96, 150-161.	7.0	149
9	Strengthening of stainless steel by titanium carbide addition and grain refinement during selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 812-818.	5.6	149
10	Selective laser melting of TiB2/316L stainless steel composites: The roles of powder preparation and hot isostatic pressing post-treatment. Powder Technology, 2017, 309, 37-48.	4.2	134
11	Thermal behavior of the molten pool, microstructural evolution, and tribological performance during selective laser melting of TiC/316L stainless steel nanocomposites: Experimental and simulation methods. Journal of Materials Processing Technology, 2018, 257, 288-301.	6.3	133
12	Heat treatment and properties of a hot work tool steel fabricated by additive manufacturing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 753, 109-121.	5.6	129
13	Selective laser melting of TiB 2 /H13 steel nanocomposites: Influence of hot isostatic pressing post-treatment. Journal of Materials Processing Technology, 2017, 244, 344-353.	6.3	94
14	In situ formation of TiC-particle-reinforced stainless steel matrix nanocomposites during ball milling: Feedstock powder preparation for selective laser melting at various energy densities. Powder Technology, 2018, 326, 467-478.	4.2	89
15	Effect of processing parameters on the microstructure and mechanical properties of Coâ€“Crâ€“Mo alloy fabricated by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 792, 139456.	5.6	36
16	Effects of building direction and defect sensitivity on the fatigue behavior of additively manufactured H13 tool steel. Theoretical and Applied Fracture Mechanics, 2020, 108, 102634.	4.7	32
17	Effect of Laser Spot Size, Scanning Strategy, Scanning Speed, and Laser Power on Microstructure and Mechanical Behavior of 316L Stainless Steel Fabricated via Selective Laser Melting. Journal of Materials Engineering and Performance, 2022, 31, 2205-2224.	2.5	26
18	H13â€“partially stabilized zirconia nanocomposites fabricated by high-energy mechanical milling and selective laser melting. Materials and Design, 2018, 146, 286-297.	7.0	25

#	Article	IF	Citations
19	Superior Wear Resistance in EBM-Processed TC4 Alloy Compared with SLM and Forged Samples. Materials, 2019, 12, 782.	2.9	23
20	Compressive deformation behavior and energy absorption characteristic of additively manufactured sheet CoCrMo triply periodic minimal surface lattices. Journal of Materials Research and Technology, 2022, 18, 171-184.	5.8	14
21	Selective laser melting of TiC reinforced stainless steel nanocomposites: Mechanical behaviour at elevated temperatures. Materials Letters, 2019, 256, 126633.	2.6	11
22	Effect of milling time on thermal treatment of TiC, TiB2/steel powders. Journal of Thermal Analysis and Calorimetry, 2013, 113, 379-383.	3.6	10
23	Selective laser melting of TiC/H13 steel bulk-form nanocomposites with variations in processing parameters. MRS Communications, 2017, 7, 84-89.	1.8	10
24	Fracture Toughness of a Hot Work Tool Steel Fabricated by Laserâ€Powder Bed Fusion Additive Manufacturing. Steel Research International, 2020, 91, 1900449.	1.8	9
25	Application of thermal analysis in nanotechnology. Journal of Thermal Analysis and Calorimetry, 2010, 101, 701-706.	3.6	7
26	A New Approach for Manufacturing Stochastic Pure Magnesium Foam by Laser Powder Bed Fusion: Fabrication, Geometrical Characteristics, and Compressive Mechanical Properties. Advanced Engineering Materials, 2021, 23, 2100483.	3.5	7
27	Oxidation process of the steel/nc-TiC nanocomposites. Journal of Thermal Analysis and Calorimetry, 2012, 108, 979-983.	3.6	6
28	Mechanical Properties of Metal Matrix Nanocomposites Synthesized by Selective Laser Melting Measured by Depth Sensing Indentation Technique. Key Engineering Materials, 2013, 586, 83-86.	0.4	4
29	Microstructure and Tribocorrosion Properties of Titanium Matrix Nanocomposites Manufactured by Selective Laser Sintering/Melting Method. Solid State Phenomena, 0, 227, 247-250.	0.3	3
30	Technological Restrictions of Lightweight Lattice Structures Manufactured by Selective Laser Melting of Metals. Advances in Manufacturing Science and Technology, 2014, 38, 75-82.	0.3	2
31	Topology Optimisation Aimed at Additiveâ€"SLM Manufacturing of Metal Parts of ExoArm 7-DOF. Lecture Notes in Mechanical Engineering, 2018, , 533-541.	0.4	2
32	The role of the additive manufacturing process parameters in the shaping of the surface geometric structure during micro-milling. Journal of Machine Engineering, 2020, 20, 86-93.	1.8	1
33	Selective Laser Melting of TiB₂/H13 Steel Bulk Nanocomposites: Influence of Nanoscale Reinforcment. , 0, , 167-176.		0
34	Selective Laser Melting of TiB2/H13 Steel Bulk Nanocomposites: Influence of Nanoscale Reinforcment. , 2016, , 171-176.		0
35	Technical and Economic Implications of the Combination of Machining and Additive Manufacturing in the Production of Metal Parts on the Example of a Disc Type Element. Lecture Notes in Mechanical Engineering, 2020, , 128-137.	0.4	0