Edward Chlebus

List of Publications by Year
in descending order

36 papers	1,740 citations	471061 17 h-index	414034 32 g-index
37 all docs	37 docs citations	37 times ranked	1947 citing authors

#	Article	IF	Citations
1	Microstructure and mechanical properties of Tiâ€“Re alloys manufactured by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138290.	2.6	26
2	Effect of Scanning and Support Strategies on Relative Density of SLM-ed H13 Steel in Relation to Specimen Size. Materials, 2019, 12, 239.	1.3	48
3	The Use of Selective Laser Melting as a Method of New Materials Development. Lecture Notes in Mechanical Engineering, 2019, , 403-410.	0.3	2
4	Processing of Magnesium Alloy by Selective Laser Melting. Lecture Notes in Mechanical Engineering, 2019, , 411-418.	0.3	1
5	Selective laser melting of magnesium AZ31B alloy powder. Rapid Prototyping Journal, 2019, 26, 249-258.	1.6	25
6	Comparison of electropolished 316L steel samples manufactured by SLM and traditional technology. Rapid Prototyping Journal, 2019, 25, 566-580.	1.6	36
7	FEM Analysis of Mini-Plate for Osteosynthesis of Mandibular Fractures Dedicated for Future Manufacturing with Additive Technologies (AM). Lecture Notes in Mechanical Engineering, 2019, , 806-813.	0.3	0
8	Correlation between process parameters, microstructure and properties of 316â€L stainless steel processed by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 64-73.	2.6	337
9	Hot Corrosion of Tiâ€“Re Alloys Fabricated by Selective Laser Melting. Oxidation of Metals, 2018, 90, 83-96.	1.0	12
10	The Effect of Rhenium Addition on Microstructure and Corrosion Resistance of Inconel 718 Processed by Selective Laser Melting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6479-6489.	1.1	14
11	Application of Ti6Al7Nb Alloy for the Manufacture of Biomechanical Functional Structures (BFS) for Custom-Made Bone Implants. Materials, 2018, 11, 971.	1.3	22
12	Laser cutting of composite sandwich structures. Archives of Civil and Mechanical Engineering, 2017, 17, 545-554.	1.9	10
13	A hybrid spares demand forecasting method dedicated to mining industry. Applied Mathematical Modelling, 2017, 49, 87-107.	2.2	19
14	Fatigue crack growth rate and tensile strength of Re modified Inconel 718 produced by means of selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 698, 289-301.	2.6	25
15	Wear and corrosion behaviour of Inconel 718 laser surface alloyed with rhenium. Materials and Design, 2017, 132, 349-359.	3.3	46
16	Design of experiments approach in AZ31 powder selective laser melting process optimization. Archives of Civil and Mechanical Engineering, 2017, 17, 9-18.	1.9	65
17	Influence of laser power on the penetration depth and geometry of scanning tracks in selective laser melting. , 2016, , .		1
18	System for laser microsurfacing of metal powders. Welding International, 2016, 30, 98-102.	0.3	6

#	Article	IF	Citations
19	The chemical digestion of Ti6Al7Nb scaffolds produced by Selective Laser Melting reduces significantly ability of Pseudomonas aeruginosa to form biofilm. Acta of Bioengineering and Biomechanics, 2016, 18, 115-20.	0.2	3
20	Composite Laser-Clad Coating on Titanium Substrate Using Pure Hydroxyapatite Powder. Powder Metallurgy and Metal Ceramics, 2015, 54, 318-323.	0.4	7
21	Effect of heat treatment on the microstructure and mechanical properties of Inconel 718 processed by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 647-655.	2.6	520
22	Fabrication of microscaffolds from Ti-6Al-7Nb alloy by SLM. Rapid Prototyping Journal, 2015, 21, 393-401.	1.6	21
23	Microbial Biofilms Are Able to Destroy Hydroxyapatite in the Absence of Host Immunity InÂVitro. Journal of Oral and Maxillofacial Surgery, 2015, 73, 451-464.	0.5	17
24	Titanium alloyed with rhenium by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 155-163.	2.6	43
25	System laserowego mikronapawania proszkÃ³w metali. PrzeglÄ…d Spawalnictwa, 2015, 83, .	0.5	5
26	Examples of Laser Processing Control with Machine Vision Feedback. Solid State Phenomena, 2014, 223, 325-332.	0.3	2
27	The ability of S.aureus to form biofilm on the Ti-6Al-7Nb scaffolds produced by Selective Laser Melting and subjected to the different types of surface modifications. Acta of Bioengineering and Biomechanics, 2013, 15, 69-76.	0.2	16
28	Parameters in selective laser melting for processing metallic powders. Proceedings of SPIE, 2012, , .	0.8	33
29	Titanium Scaffolds for Custom CMF Restorations. , 2012, , .		1
30	Intelligent Data Processing in Recycling of Household Appliances. Lecture Notes in Computer Science, 2012, , 241-249.	1.0	0
31	Microstructure and mechanical behaviour of Tiâ€•6Alâ€•7Nb alloy produced by selective laser melting. Materials Characterization, 2011, 62, 488-495.	1.9	333
32	Concept of a Data Exchange Agent System for Automatic Construction of Simulation Models of Manufacturing Processes. Lecture Notes in Computer Science, 2011, , 381-388.	1.0	3
33	Rule-Based Expert System Dedicated for Technological Applications. Lecture Notes in Computer Science, 2011, , 373-380.	1.0	2
34	Variant simulation in design and risk estimation of manufacturing system. Journal of Manufacturing Technology Management, 2006, 17, 448-459.	3.3	4
35	Modelling and calculation of properties of sliding guideways. International Journal of Machine Tools and Manufacture, 1999, 39, 1823-1839.	6.2	30
36	Fatigue Crack Growth Rates and Tensile Strength of Titanium Produced by Means of Selective Laser Melting. Key Engineering Materials, 0, 627, 305-308.	0.4	4