Igor Polozov

List of Publications by Year in descending order

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38 papers	1,029 citations	566801 15 h-index	500791 28 g-index
40 all docs	40 docs citations	40 times ranked	865 citing authors

#	Article	IF	Citations
1	Microstructure and Mechanical Properties of NiTi-Based Eutectic Shape Memory Alloy Produced via Selective Laser Melting In-Situ Alloying by Nb. Materials, 2021, 14, 2696.	1.3	7
2	In situ synthesized Ti2AlNb-based composites produced by selective laser melting by addition of SiC-whiskers. Materials Letters, 2021, 297, 129956.	1.3	10
3	Mitigating Inhomogeneity and Tailoring the Microstructure of Selective Laser Melted Titanium Orthorhombic Alloy by Heat Treatment, Hot Isostatic Pressing, and Multiple Laser Exposures. Materials, 2021, 14, 4946.	1.3	6
4	Structure and Properties of Ti/Ti64 Graded Material Manufactured by Laser Powder Bed Fusion. Materials, 2021, 14, 6140.	1.3	11
5	Additive Manufacturing of Ti-48Al-2Cr-2Nb Alloy Using Gas Atomized and Mechanically Alloyed Plasma Spheroidized Powders. Materials, 2020, 13, 3952.	1.3	15
6	Microstructure, densification, and mechanical properties of titanium intermetallic alloy manufactured by laser powder bed fusion additive manufacturing with high-temperature preheating using gas atomized and mechanically alloyed plasma spheroidized powders. Additive Manufacturing, 2020, 34, 101374.	1.7	22
7	Tailoring microstructure and properties of graded Ti-22Al-25Nb/SiC and Ti-22Al-25Nb/Ti-6Al-4V alloys by in-situ synthesis during selective laser melting. Materials Today: Proceedings, 2020, 30, 672-678.	0.9	2
8	Fabrication of Silicon Carbide Fiber-Reinforced Silicon Carbide Matrix Composites Using Binder Jetting Additive Manufacturing from Irregularly-Shaped and Spherical Powders. Materials, 2020, 13, 1766.	1.3	34
9	Gamma-Titanium Intermetallic Alloy Produced by Selective Laser Melting Using Mechanically Alloyed and Plasma Spheroidized Powders. Minerals, Metals and Materials Series, 2020, , 375-383.	0.3	2
10	Binder jetting additive manufacturing of 420 stainless steel: Densification during sintering and effect of heat treatment on microstructure and hardness. Materials Today: Proceedings, 2020, 30, 592-595.	0.9	14
11	Selective Laser Melting of Ti2AlNb-based intermetallic alloy using elemental powders: Effect of process parameters and post-treatment on microstructure, composition, and properties. Intermetallics, 2019, 112, 106554.	1.8	49
12	Synthesis of titanium orthorhombic alloy spherical powders by mechanical alloying and plasma spheroidization processes. Materials Letters, 2019, 256, 126615.	1.3	19
13	Selective Laser Melting of the Intermetallic Titanium Alloy. Russian Journal of Non-Ferrous Metals, 2019, 60, 186-193.	0.2	6
14	Synthesis of titanium orthorhombic alloy using binder jetting additive manufacturing. Materials Letters, 2019, 243, 88-91.	1.3	32
15	Numerical simulation of the inelastic behavior of a structurally graded material. Letters on Materials, 2019, 9, 97-102.	0.2	7
16	INVESTIGATION OF MICROSTRUCRE AND MECHANICAL PROPERTIES OF VT6 TITANIUM ALLOY LATTICE STRUCTURES PRODUCED BY SELECTIVE LASER MELTING. Tekhnologiya Metallov, 2019, .	0.1	0
17	Fabrication of titanium orthorhombic alloy spherical powders by mechanical alloying and plasma spheroidization for application in additive manufacturing processes. , 2019, , .		0
18	DEVELOPMENT OF SELECTIVE LASER MELTING PARAMETERS FOR EPITAXIAL CRYSTAL GROWTH. , 2019, , .		0

#	Article	IF	Citations
19	Effect of heat treatment on microstructure and properties of Ti-22Al-25Nb alloy fabricated by Selective Laser Melting. , 2019, , .		1
20	FUNCTIONALLY GRADED LATTICE STRUCTURES MADE FROM TITANIUM ALLOY BY SELECTIVE LASER MELTING. , 2019, , .		0
21	THE BINDER JETTING OF Nb-BASED IN-SITU COMPOSITE. , 2019, , .		0
22	Synthesis of Ti48Al2Cr2Nb intermetallic alloy powder for Additive Manufacturing by mechanical alloying and plasma spheroidization. , 2019, , .		0
23	Synthesis of Ti-5Al, Ti-6Al-7Nb, and Ti-22Al-25Nb alloys from elemental powders using powder-bed fusion additive manufacturing. Journal of Alloys and Compounds, 2018, 763, 436-445.	2.8	81
24	The Effect of Layer Thickness at Selective Laser Melting. Procedia Engineering, 2017, 174, 126-134.	1.2	132
25	In-situ synthesis of Ti2AlNb-based intermetallic alloy by selective laser melting. Journal of Alloys and Compounds, 2017, 704, 434-442.	2.8	74
26	Anisotropy of mechanical properties of products manufactured using selective laser melting of powdered materials. Russian Journal of Non-Ferrous Metals, 2017, 58, 389-395.	0.2	51
27	Evolution of structure and properties of heat-resistant nickel alloy after selective laser melting, hot isostatic pressing and heat treatment. Tsvetnye Metally, 2017, , 77-82.	0.1	13
28	Microstructure and mechanical properties of additive manufactured copper alloy. Materials Letters, 2016, 179, 38-41.	1.3	154
29	Use of Additive Techniques for Preparing Individual Components of Titanium Alloy Joint Endoprostheses. Bio-Medical Engineering, 2016, 50, 202-205.	0.3	34
30	A laser ultrasonic technique for studying the properties of products manufactured by additive technologies. Russian Journal of Nondestructive Testing, 2016, 52, 303-309.	0.3	23
31	Layer thickness influence on the Inconel 718 alloy microstructure and properties under selective laser melting. Tsvetnye Metally, 2016, , 81-86.	0.1	12
32	Producing hip implants of titanium alloys by additive manufacturing. International Journal of Bioprinting, 2016, 2, .	1.7	45
33	Selective laser melting of heat-resistant Ni-based alloy. Non-ferrous Metals, 2015, , 32-35.	0.4	25
34	Selective laser melting of titanium alloy and manufacturing of gas-turbine engine part blanks. Tsvetnye Metally, 2015, , 76-80.	0.1	21
35	Microstructure and Mechanical Properties of Inconel 718 Produced by SLM and Subsequent Heat Treatment. Key Engineering Materials, 0, 651-653, 665-670.	0.4	57
36	Microstructure and Mechanical Properties of Ti-6Al-4V Manufactured by SLM. Key Engineering Materials, 0, 651-653, 677-682.	0.4	56

#	Article	IF	Citations
37	Formation of Structure in Titanium Lightweight Structures Made by Selective Laser Melting. Materials Science Forum, 0, 946, 990-995.	0.3	4
38	Investigation of Ti-6Al-4V Alloy <i>In Situ</i> Manufactured Using Selective Laser Melting from Elemental Powder Mixture. Solid State Phenomena, 0, 299, 646-651.	0.3	3