

Dmytro Lesyk

List of Publications by Year in descending order

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25
papers

579
citations

840776

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docs citations

30
times ranked

297
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Effects of Laser, Ultrasonic, and Combined Laser-Ultrasonic Hardening Treatments on Surface Properties of AISI 1045 Steel Parts. Lecture Notes in Mechanical Engineering, 2022, , 313-322.	0.4	5
2	Porosity and surface defects characterization of hot isostatically pressed Inconel 718 alloy turbine blades printed by 3D laser metal fusion technology. MRS Advances, 2022, 7, 197-201.	0.9	8
3	Optimization of Ultrasonic Impact Treatment for Surface Finishing and Hardening of AISI 52100 Tool Steel by Experimental Design. Journal of Materials Engineering and Performance, 2022, 31, 8567-8584.	2.5	9
4	Ultrasonic surface post-processing of hot isostatic pressed and heat treated superalloy parts manufactured by laser powder bed fusion. Additive Manufacturing Letters, 2022, 3, 100063.	2.1	4
5	Enhancing hardness in overlapping scanner-based laser area of carbon and tool steel by multi-pin ultrasonic impact peening. Lasers in Manufacturing and Materials Processing, 2022, 9, 292-311.	2.2	1
6	Surface Characterization of the Cobalt-Based Alloy Stents Fabricated by 3D Laser Metal Fusion Technology. Lecture Notes in Networks and Systems, 2021, , 357-364.	0.7	5
7	Surface Shot Peening Post-processing of Inconel 718 Alloy Parts Printed by Laser Powder Bed Fusion Additive Manufacturing. Journal of Materials Engineering and Performance, 2021, 30, 6982-6995.	2.5	31
8	Nanostructured Surface Modification of AISI 304 Stainless Steel by Laser Shock Peening Followed by Ultrasonic Impact Peening. , 2021, , .		0
9	Increasing wear and corrosion resistance of steel products by combined laser thermomechanical treatment. Eastern-European Journal of Enterprise Technologies, 2021, 6, 72-80.	0.5	1
10	Effects of the Combined Laser-Ultrasonic Surface Hardening Induced Microstructure and Phase State on Mechanical Properties of AISI D2 Tool Steel. Lecture Notes in Mechanical Engineering, 2020, , 188-198.	0.4	9
11	Post-processing of the Inconel 718 alloy parts fabricated by selective laser melting: Effects of mechanical surface treatments on surface topography, porosity, hardness and residual stress. Surface and Coatings Technology, 2020, 381, 125136.	4.8	144
12	Influence of combined laser heat treatment and ultrasonic impact treatment on microstructure and corrosion behavior of AISI 1045 steel. Surface and Coatings Technology, 2020, 401, 126275.	4.8	37
13	Surface Finishing of Complexly Shaped Parts Fabricated by Selective Laser Melting. Lecture Notes in Mechanical Engineering, 2020, , 186-195.	0.4	21
14	Combined Thermo-Mechanical Techniques for Post-processing of the SLM-Printed Ni-Cr-Fe Alloy Parts. Lecture Notes in Mechanical Engineering, 2020, , 295-304.	0.4	10
15	Surface Polishing of Laser Powder Bed Fused Superalloy Components by Magnetic Post-treatment. , 2020, , .		6
16	INCREASING THE EFFICIENCY OF SURFACE STRENGTHENING OF METAL PRODUCTS BY COMBINED THERMODEFORMATION PROCESSING. Vibrations in Engineering and Technology, 2020, , 103-110.	0.1	0
17	Mechanical Surface Treatments of AISI 304 Stainless Steel: Effects on Surface Microrelief, Residual Stress, and Microstructure. Journal of Materials Engineering and Performance, 2019, 28, 5307-5322.	2.5	37
18	Effects of laser heat treatment combined with ultrasonic impact treatment on the surface topography and hardness of carbon steel AISI 1045. Optics and Laser Technology, 2019, 111, 424-438.	4.6	50

#	ARTICLE	IF	CITATIONS
19	Laser-Hardened and Ultrasonically Peened Surface Layers on Tool Steel AISI D2: Correlation of the Bearing Curvesâ€™ Parameters, Hardness and Wear. Journal of Materials Engineering and Performance, 2018, 27, 764-776.	2.5	29
20	Laser Sintering of Abrasive Layers with Inclusions of Cubic Boron Nitride Grains. Lasers in Manufacturing and Materials Processing, 2018, 5, 298-316.	2.2	3
21	Surface hardening and finishing of metallic products by hybrid laserâ€™ultrasonic treatment. Eastern-European Journal of Enterprise Technologies, 2018, 1, 35-42.	0.5	17
22	Microstructure related enhancement in wear resistance of tool steel AISI D2 by applying laser heat treatment followed by ultrasonic impact treatment. Surface and Coatings Technology, 2017, 328, 344-354.	4.8	56
23	Hardness Simulation of over-tempered Area During Laser Hardening Treatment. Physics Procedia, 2016, 83, 1357-1366.	1.2	18
24	Surface microrelief and hardness of laser hardened and ultrasonically peened AISI D2 tool steel. Surface and Coatings Technology, 2015, 278, 108-120.	4.8	41
25	Nickel Superalloy Turbine Blade Parts Printed by Laser Powder Bed Fusion: Thermo-Mechanical Post-processing for Enhanced Surface Integrity and Precipitation Strengthening. Journal of Materials Engineering and Performance, 0, , 1.	2.5	10