

# Dmytro Lesyk

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

579  
citations

840776

11  
h-index

642732

23  
g-index

30  
all docs

30  
docs citations

30  
times ranked

297  
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Surface and Coatings Technology</i> , 2020, 381, 125136.	4.8	144
2	Microstructure related enhancement in wear resistance of tool steel AISI D2 by applying laser heat treatment followed by ultrasonic impact treatment. <i>Surface and Coatings Technology</i> , 2017, 328, 344-354.	4.8	56
3	Effects of laser heat treatment combined with ultrasonic impact treatment on the surface topography and hardness of carbon steel AISI 1045. <i>Optics and Laser Technology</i> , 2019, 111, 424-438.	4.6	50
4	Surface microrelief and hardness of laser hardened and ultrasonically peened AISI D2 tool steel. <i>Surface and Coatings Technology</i> , 2015, 278, 108-120.	4.8	41
5	Mechanical Surface Treatments of AISI 304 Stainless Steel: Effects on Surface Microrelief, Residual Stress, and Microstructure. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 5307-5322.	2.5	37
6	Influence of combined laser heat treatment and ultrasonic impact treatment on microstructure and corrosion behavior of AISI 1045 steel. <i>Surface and Coatings Technology</i> , 2020, 401, 126275.	4.8	37
7	Surface Shot Peening Post-processing of Inconel 718 Alloy Parts Printed by Laser Powder Bed Fusion Additive Manufacturing. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 6982-6995.	2.5	31
8	Laser-Hardened and Ultrasonically Peened Surface Layers on Tool Steel AISI D2: Correlation of the Bearing Curvesâ€™ Parameters, Hardness and Wear. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 764-776.	2.5	29
9	Surface Finishing of Complexly Shaped Parts Fabricated by Selective Laser Melting. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 186-195.	0.4	21
10	Hardness Simulation of over-tempered Area During Laser Hardening Treatment. <i>Physics Procedia</i> , 2016, 83, 1357-1366.	1.2	18
11	Surface hardening and finishing of metallic products by hybrid laser-Ultrasonic treatment. <i>Eastern-European Journal of Enterprise Technologies</i> , 2018, 1, 35-42.	0.5	17
12	Combined Thermo-Mechanical Techniques for Post-processing of the SLM-Printed Ni-Cr-Fe Alloy Parts. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 295-304.	0.4	10
13	Nickel Superalloy Turbine Blade Parts Printed by Laser Powder Bed Fusion: Thermo-Mechanical Post-processing for Enhanced Surface Integrity and Precipitation Strengthening. <i>Journal of Materials Engineering and Performance</i> , 0, , 1.	2.5	10
14	Effects of the Combined Laser-Ultrasonic Surface Hardening Induced Microstructure and Phase State on Mechanical Properties of AISI D2 Tool Steel. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 188-198.	0.4	9
15	Optimization of Ultrasonic Impact Treatment for Surface Finishing and Hardening of AISI D2 Tool Steel by Experimental Design. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 8567-8584.	2.5	9
16	Porosity and surface defects characterization of hot isostatically pressed Inconel 718 alloy turbine blades printed by 3D laser metal fusion technology. <i>MRS Advances</i> , 2022, 7, 197-201.	0.9	8
17	Surface Polishing of Laser Powder Bed Fused Superalloy Components by Magnetic Post-treatment. , 2020, , .		6
18	Surface Characterization of the Cobalt-Based Alloy Stents Fabricated by 3D Laser Metal Fusion Technology. <i>Lecture Notes in Networks and Systems</i> , 2021, , 357-364.	0.7	5

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	Nanostructured Surface Modification of AISI 304 Stainless Steel by Laser Shock Peening Followed by Ultrasonic Impact Peening. , 2021, , .		0
25	INCREASING THE EFFICIENCY OF SURFACE STRENGTHENING OF METAL PRODUCTS BY COMBINED THERMODEFORMATION PROCESSING. Vibrations in Engineering and Technology, 2020, , 103-110.	0.1	0