Anatolii Orishich

List of Publications by Year in descending order

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687363 752698 73 494 13 20 citations h-index g-index papers 73 73 73 224 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	The development of heterogeneous materials based on Ni and B ₄ C powders using a cold spray and stratified selective laser melting technologies. Journal of Physics: Conference Series, 2018, 946, 012005.	0.4	5
2	Beam polarization effect on the surface quality during steel cutting by a CO2 laser. Journal of Laser Applications, $2018, 30, .$	1.7	3
3	Laser welding of the high-strength Al–Cu–Li alloy. International Journal of Advanced Manufacturing Technology, 2018, 94, 2217-2227.	3.0	15
4	The influence of the thermal wake due to pulsating optical discharge on the aerodynamic-drag force. Thermophysics and Aeromechanics, 2018, 25, 257-264.	0.5	8
5	Microcraters and surface quality in laser oxygen cutting of thick steel sheets. Journal of Laser Applications, 2018, 30, 022003.	1.7	o
6	Effect of Heat Treatment on Mechanical and Microstructural Properties of the Welded Joint of the Al–Mg–Li Alloy Obtained by Laser Welding. Journal of Applied Mechanics and Technical Physics, 2018, 59, 561-568.	0.5	16
7	Investigation of the Microstructure of High-Strength Laser Welded Joints of Aluminum-Lithium Aeronautical Alloys. Metal Working and Material Science, 2018, 20, 50-62.	0.3	1
8	Properties of welded joints in laser welding of aeronautic aluminum-lithium alloys. Proceedings of SPIE, $2017, \ldots$	0.8	O
9	Experimental investigation of the effect of the laser beam polarization state on the quality of steel sheet cutting. AIP Conference Proceedings, 2017, , .	0.4	o
10	Acoustic-emission inspection of flaws during laser bonding of articles made of VT20 titanium alloy. Russian Journal of Nondestructive Testing, 2017, 53, 430-435.	0.9	2
11	Optimization of laser cladding on the base of additive technologies of metal-ceramic powders. AIP Conference Proceedings, 2017, , .	0.4	1
12	Investigation of the microstructure of Ni and B4C ceramic-metal mixtures obtained by cold spray coating and followed by laser cladding. AIP Conference Proceedings, 2017, , .	0.4	4
13	Energy balance in high-quality cutting of steel by fiber and CO2 lasers. Journal of Applied Mechanics and Technical Physics, 2017, 58, 371-378.	0.5	19
14	Laser welding of stainless steel to titanium using explosively welded composite inserts. International Journal of Advanced Manufacturing Technology, 2017, 90, 3037-3043.	3.0	22
15	Effect of Mg and Cu on mechanical properties of high-strength welded joints of aluminum alloys obtained by laser welding. Journal of Applied Mechanics and Technical Physics, 2017, 58, 939-946.	0.5	13
16	Optimization of laser cladding of cold spray coatings with B4C and Ni powders. AIP Conference Proceedings, $2017, \ldots$	0.4	1
17	Influence of nanomodification additives on the properties of multilayer composite coating obtained in laser surfacing. , 2017, , .		0
18	Craterlike structures on the laser cut surface. AIP Conference Proceedings, 2017, , .	0.4	0

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19	Investigation of the structure and properties of a composite insert applied at laser welding of steel with titanium. AIP Conference Proceedings, 2017 , , .	0.4	О
20	Creation of heterogeneous materials on the basis of B4C and Ni powders by the method of cold spraying with subsequent layer-by-layer laser treatment. Journal of Applied Mechanics and Technical Physics, 2017, 58, 947-955.	0.5	35
21	Investigation of the effect of an optical pulsating discharge on the model's aerodynamic drag in supersonic air flow. AIP Conference Proceedings, 2017, , .	0.4	O
22	Cold spraying of aluminum bronze on profiled submillimeter cermet structures formed by laser cladding. AIP Conference Proceedings, 2017 , , .	0.4	3
23	EFFECT OF LASER RADIATION ON THE STRUCTURE OF METAL–CERAMIC MIXTURES BASED ON BORON CARBIDE. International Journal of Nanomechanics Science and Technology, 2017, 8, 55-66.	0.5	4
24	The structure and mechanical properties of VT23 laser-welded joints. AIP Conference Proceedings, $2016, \ldots$	0.4	5
25	The investigation of ultrasonic mechanical forging influence on the structure and mechanical properties of VT23 welded joints by methods of laser and electron beam welding. AIP Conference Proceedings, 2016, , .	0.4	3
26	The Utmost Thickness of the Cut Sheet for the Qualitative Oxygen-assisted Laser Cutting of Low-carbon Steel. Physics Procedia, 2016, 83, 296-301.	1.2	7
27	Craterlike structures on the cut surface after oxygen-assisted laser cutting of steel. Journal of Laser Applications, 2016, 28, 012007.	1.7	5
28	Creation of heterogeneous materials by laser cladding of heterogeneous powder compositions on the base of steel and nickel. AIP Conference Proceedings, 2016 , , .	0.4	0
29	Optimal choice of the technology of thick steel sheets laser cutting. Metal Working and Material Science, 2016, , 15-22.	0.3	0
30	Mechanical characteristics of high-quality laser cutting of steel by fiber and CO2 lasers. Journal of Applied Mechanics and Technical Physics, 2015, 56, 726-735.	0.5	19
31	Experimental comparison of laser energy losses in high-quality laser-oxygen cutting of low-carbon steel using radiation from fibre and CO ₂ lasers. Quantum Electronics, 2015, 45, 873-878.	1.0	9
32	Microstructure of WC–Co hard alloy surface after laser treatment. Surface Engineering, 2015, 31, 74-77.	2.2	25
33	Investigation of the technology of laser welding of aluminum alloy 1424. Doklady Physics, 2015, 60, 533-538.	0.7	11
34	Development of a technology for laser welding of the 1424 aluminum alloy with a high strength of the welded joint. Journal of Applied Mechanics and Technical Physics, 2015, 56, 945-950.	0.5	7
35	Investigation of the structure and properties of titanium-stainless steel permanent joints obtained by laser welding with the use of intermediate inserts and nanopowders. Thermophysics and Aeromechanics, 2015, 22, 135-142.	0.5	26
36	Study of spectral characteristics of radiation from a thermal wake of a pulsating optical discharge in a supersonic air flow. Quantum Electronics, 2015, 45, 973-978.	1.0	3

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37	Experimental study of laser-oxygen cutting of low-carbon steel using fibre and CO ₂ lasers under conditions of minimal roughness. Quantum Electronics, 2014, 44, 970-974.	1.0	14
38	Experimental comparison of the oxygen-assist laser cutting with a fiber and CO2-laser under the condition of minimal roughness. , 2014, , .		0
39	Experimental comparison of the cutting speed and quality for mild and stainless steel sheets with fiber and CO ₂ lasers. Proceedings of SPIE, 2014, , .	0.8	O
40	High-quality laser cutting of stainless steel in inert gas atmosphere by ytterbium fibre and CO2lasers. Quantum Electronics, 2014, 44, 233-238.	1.0	13
41	Laser welding of stainless steel with a titanium alloy with the use of a multilayer insert obtained in an explosion. Combustion, Explosion and Shock Waves, 2014, 50, 483-487.	0.8	12
42	Influence of an optical pulsed discharge on the structure of a supersonic air flow. Quantum Electronics, 2014, 44, 83-88.	1.0	2
43	Optical discharge with absorption of repetitive CO ₂ laser pulses in supersonic air flow: wave structure and condition of a quasi-steady state. Quantum Electronics, 2014, 44, 836-840.	1.0	10
44	Ultimate energy characteristics of a mechanically Q-switched CO2 LASER. Technical Physics Letters, 2014, 40, 170-173.	0.7	6
45	Energy characteristics of the CO ₂ laser cutting of thick steel sheets. Proceedings of SPIE, 2013, , .	0.8	1
46	Energy characteristics of cutting of thick steel sheets by a CO2and fiber laser. , 2013, , .		0
47	Formation of an optical pulsed discharge in a supersonic air flow by radiation of a repetitively pulsed CO ₂ laser. Quantum Electronics, 2012, 42, 843-847.	1.0	9
48	Investigation of laser-welded titanium and stainless steel specimens using digital radiography methods. Russian Journal of Nondestructive Testing, 2012, 48, 238-244.	0.9	8
49	Energy characteristics of laser-oxygen cutting of steel by CO2-laser radiation. Quantum Electronics, 2012, 42, 640-644.	1.0	7
50	Optimum power consumption at high-quality laser-oxygen cutting. Proceedings of SPIE, 2012, , .	0.8	1
51	Optical breakdown in supersonic air jet. Technical Physics Letters, 2012, 38, 70-73.	0.7	3
52	Energy conditions of gas laser cutting of thick steel sheets. Journal of Applied Mechanics and Technical Physics, 2011, 52, 340-346.	0.5	1
53	High-power repetitively pulsed CO ₂ laser with mechanical Q-switching and its application to studies in aerodynamic installations. Quantum Electronics, 2011, 41, 1027-1032.	1.0	14
54	Flow fluctuation measurement in the flow-through path of continuous electric-discharge CO2-laser contour. Thermophysics and Aeromechanics, 2011, 18, 65-71.	0.5	2

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55	Similarity of heat fluxes upon laser oxygen cutting of steel. Doklady Physics, 2011, 56, 12-15.	0.7	o
56	<title>Optical breakdown and absorption of radiation of powerful pulse-periodic CO<formula><inf><roman>2</roman></inf></formula> laser in a supersonic air stream</title> ., 2010, ,.		O
57	Energy conditions of high quality laser-oxygen cutting of mild steel. Proceedings of SPIE, 2010, , .	0.8	1
58	Scaling laws for the laser-oxygen cutting of thick-sheet mild steel. International Journal of Machine Tools and Manufacture, 2009, 49, 1152-1154.	13.4	21
59	The effect of vortex gas flow on the surface quality for the oxygen-laser cutting of mild steel. Doklady Physics, 2009, 54, 72-76.	0.7	2
60	On similarity laws for gas-laser cutting of thick steel sheets. Doklady Physics, 2009, 54, 413-417.	0.7	1
61	Experimental optimisation of the gas-assisted laser cutting of thick steel sheets. Quantum Electronics, 2009, 39, 547-551.	1.0	20
62	Metal cutting by radiation from a CO2laser with a self-filtering cavity. Quantum Electronics, 2009, 39, 191-196.	1.0	1
63	Operation features of the diametrical disc fan at low pressures. Thermophysics and Aeromechanics, 2008, 15, 159-165.	0.5	0
64	High-power repetition rate Q-switched CO 2 laser and its application to study the optical breakdown in a supersonic air stream. , $2008, , .$		1
65	Experimental search of similarity criteria for the high-quality cutting of mild steel. , 2008, , .		0
66	Laser cutting of thick steel sheets using supersonic oxygen jets. Quantum Electronics, 2007, 37, 891-892.	1.0	5
67	Development of resonators for high-power CO 2 lasers. , 2007, , .		1
68	Formation of a two-phase vortex structure in paraffin melt subjected to an air jet in a narrow channel. Doklady Physics, 2007, 52, 346-350.	0.7	0
69	Mathematical modelling of striation formation in oxygen laser cutting of mild steel. Journal Physics D: Applied Physics, 2006, 39, 4236-4244.	2.8	45
70	Space-saving electric-discharge CO 2 laser of high (up to $14kW$) radiation power with convective cooling of the working medium and gas pumping by an extended disc fan., $2006,$		1
71	Crisis of consumption in diametrical disc pumps at low pressure. Doklady Physics, 2006, 51, 617-620.	0.7	0
72	Technological continuous electric-discharge CO 2 laser of 8-KW power with cross gas pumping and high-quality radiation. , 2005, , .		0

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73	Numerical analysis of the effect of the TEM00radiation mode polarisation on the cut shape in laser cutting of thick metal sheets. Quantum Electronics, 2005, 35, 200-204.	1.0	20