

Evgeniy V Karpov

List of Publications by Year in descending order

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30
papers

195
citations

1163117

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docs citations

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times ranked

93
citing authors

#	ARTICLE	IF	CITATIONS
1	Manufacturing of high-strength laser welded joints of an industrial aluminum alloy of system Al-Cu-Li by means of post heat treatment. <i>Journal of Manufacturing Processes</i> , 2019, 41, 101-110.	5.9	34
2	Effect of post heat treatment on the phase composition and strength of laser welded joints of an Al-Mg-Li alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 765, 138302.	5.6	20
3	Effect of the aluminum alloy composition (Al-Cu-Li or Al-Mg-Li) on structure and mechanical properties of dissimilar laser welds with the Ti-Al-V alloy. <i>Optics and Laser Technology</i> , 2020, 126, 106135.	4.6	20
4	Effect of Heat Treatment on Mechanical and Microstructural Properties of the Welded Joint of the Al-Mg-Li Alloy Obtained by Laser Welding. <i>Journal of Applied Mechanics and Technical Physics</i> , 2018, 59, 561-568.	0.5	16
5	Effect of Mg and Cu on mechanical properties of high-strength welded joints of aluminum alloys obtained by laser welding. <i>Journal of Applied Mechanics and Technical Physics</i> , 2017, 58, 939-946.	0.5	13
6	Effect of post-heat treatment on microstructure and mechanical properties of laser welded Al-Cu-Mg alloy. <i>Journal of Manufacturing Processes</i> , 2021, 64, 620-632.	5.9	13
7	Investigation of the technology of laser welding of aluminum alloy 1424. <i>Doklady Physics</i> , 2015, 60, 533-538.	0.7	11
8	Effect of the structure and the phase composition on the mechanical properties of Al-Cu-Li alloy laser welds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 809, 140947.	5.6	10
9	Development of a technology for laser welding of the 1424 aluminum alloy with a high strength of the welded joint. <i>Journal of Applied Mechanics and Technical Physics</i> , 2015, 56, 945-950.	0.5	7
10	Temperature Effect on the Fracture of Laser Welded Joints of Aviation Aluminum Alloys. <i>Journal of Applied Mechanics and Technical Physics</i> , 2018, 59, 934-940.	0.5	7
11	Effect of temperature on the fracture behaviour of heat-treated Al-Cu-Li alloy laser welds under low-cycle fatigue loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 1250-1261.	3.4	7
12	Damage accumulation in the pre-fracture zone under low-cyclic loading of specimens with the edge crack. <i>Procedia Engineering</i> , 2010, 2, 465-474.	1.2	6
13	Laser Welding of Dissimilar Materials Based on VT20 Titanium and V-1461 Aluminum Alloys. <i>Journal of Applied Mechanics and Technical Physics</i> , 2020, 61, 307-317.	0.5	5
14	Strain and Fracture of Glass-Fiber Laminate Containing Metal Layers. <i>Journal of Applied Mechanics and Technical Physics</i> , 2018, 59, 699-705.	0.5	4
15	Experimental determination of the elastic characteristics of filled polymers using mechanical tests for constrained compression. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	4
16	Deformation and fracture of a spheroplast under low-cycle loading at various temperatures. <i>Journal of Applied Mechanics and Technical Physics</i> , 2009, 50, 163-169.	0.5	2
17	Damage accumulation in specimens with edge crack in the prefracture region under nonstationary few-cycle loading. <i>Mechanics of Solids</i> , 2011, 46, 610-621.	0.7	2
18	Obtaining metal-based composites with hardening by titanium diboride nanoparticles. <i>Journal of Applied Mechanics and Technical Physics</i> , 2014, 55, 30-43.	0.5	2

#	ARTICLE	IF	CITATIONS
19	Deformation and Fracture of Zirconium Alloy at Low Temperatures. Journal of Applied Mechanics and Technical Physics, 2017, 58, 1130-1137.	0.5	2
20	Low-Cycle tensile tests of laser welded joints of aluminum-lithium alloys at increased and reduced temperatures. AIP Conference Proceedings, 2018, , .	0.4	2
21	Analysis of the effect of the thermomechanical processing on the laser weld joint of aluminum alloys of Al-Mg-Li and Al-Cu-Li. Procedia CIRP, 2018, 74, 442-445.	1.9	2
22	Influence of Heat Treatment on the Fracture of a Welded Joint of an Al-Cu-Li Aircraft Alloy at Different Temperatures. Journal of Applied Mechanics and Technical Physics, 2020, 61, 78-86.	0.5	2
23	Modeling the deformation of rock with rough surfaces of block contact under quasistatic and dynamic loading conditions. Journal of Applied Mechanics and Technical Physics, 2007, 48, 445-449.	0.5	1
24	Impact of axial compression and torque on strain localization and fracture under complex cyclic loading of Plexiglas rods. Journal of Applied Mechanics and Technical Physics, 2014, 55, 95-104.	0.5	1
25	Obtaining high-quality welded joints of aluminum alloys 1420 and 1424 made by laser welding and post heat treatment. AIP Conference Proceedings, 2018, , .	0.4	1
26	Damage to a Multilayer Woven Composite by Low-Velocity Indentation with a Rigid Spherical Indenter. Doklady Physics, 2018, 63, 8-12.	0.7	1
27	Bonds between metals and nanocomposites created by explosion welding. Journal of Applied Mechanics and Technical Physics, 2016, 57, 777-783.	0.5	0
28	Investigation of the influence of thermal processing on the structure and mechanical properties of a permanent joint of alloy 1420 obtained by laser welding. AIP Conference Proceedings, 2018, , .	0.4	0
29	Analysis of Mg effect on the strength characteristics of welded joints for aluminum alloys. AIP Conference Proceedings, 2018, , .	0.4	0
30	Increase of the Elasticity and Strength of the Welded Joints for the Al-Mg-Li Alloy Made by the Laser Welding by Means of the Thermal Mechanical Processing. Defect and Diffusion Forum, 0, 385, 385-390.	0.4	0