

# Alexander Zaitsev

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

430  
citations

840776

11  
h-index

888059

17  
g-index

19  
all docs

19  
docs citations

19  
times ranked

286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical and Experimental Investigation of Gas Flows, Powder Transport and Heating in Coaxial Laser Direct Metal Deposition (DMD) Process. <i>Journal of Thermal Spray Technology</i> , 2011, 20, 465-478.	3.1	67
2	Comprehensive analysis of laser cladding by means of optical diagnostics and numerical simulation. <i>Surface and Coatings Technology</i> , 2013, 220, 112-121.	4.8	64
3	Numerical simulation of transport phenomena, formation the bead and thermal behavior in application to industrial DMD technology. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 902-912.	4.8	57
4	Development and application of laser cladding modeling technique: From coaxial powder feeding to surface deposition and bead formation. <i>Applied Mathematical Modelling</i> , 2018, 57, 339-359.	4.2	51
5	Modeling of flow separation of assist gas as applied to laser cutting of thick sheet metal. <i>Applied Mathematical Modelling</i> , 2009, 33, 3730-3745.	4.2	36
6	Fundamental study of CO <sub>2</sub> - and fiber laser cutting of steel plates with high speed visualization technique. <i>Journal of Laser Applications</i> , 2014, 26, .	1.7	23
7	Numerical Simulation and Comparison of Powder Jet Profiles for Different Types of Coaxial Nozzles in Direct Material Deposition. <i>Physics Procedia</i> , 2013, 41, 870-872.	1.2	22
8	Numerical analysis of the effect of the TEM <sub>00</sub> radiation mode polarisation on the cut shape in laser cutting of thick metal sheets. <i>Quantum Electronics</i> , 2005, 35, 200-204.	1.0	20
9	Modeling of the free-surface shape in laser cutting of metals. 2. Model of multiple reflection and absorption of radiation. <i>Journal of Applied Mechanics and Technical Physics</i> , 2005, 46, 9-13.	0.5	17
10	Formation of a vortex flow at the laser cutting of sheet metal with low pressure of assisting gas. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 155112.	2.8	16
11	Complex Analysis of Laser Cladding based on Comprehensive Optical Diagnostics and Numerical Simulation. <i>Physics Procedia</i> , 2012, 39, 743-752.	1.2	16
12	Modeling and Numerical Study of Light-propulsion Phenomena of Particles Acceleration in Coaxial Laser Powder Cladding. <i>Physics Procedia</i> , 2014, 56, 439-449.	1.2	10
13	Diffusion Model of Combustion of Large Boron Particles. <i>Combustion, Explosion and Shock Waves</i> , 2018, 54, 442-449.	0.8	10
14	Parameterization of hybrid laser-assisted oxygen cutting of thick steel plates. <i>Optics and Laser Technology</i> , 2013, 47, 95-101.	4.6	8
15	Combustion Effects in Laser-oxygen Cutting: Basic Assumptions, Numerical Simulation and High Speed Visualization. <i>Physics Procedia</i> , 2014, 56, 865-874.	1.2	6
16	Laser cutting of thick steel sheets using supersonic oxygen jets. <i>Quantum Electronics</i> , 2007, 37, 891-892.	1.0	5
17	The effect of vortex gas flow on the surface quality for the oxygen-laser cutting of mild steel. <i>Doklady Physics</i> , 2009, 54, 72-76.	0.7	2
18	Mass and momentum transfer of oxygen jet to the melt in laser cutting of mild steel. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
19	The model of large boron particles combustion. AIP Conference Proceedings, 2017, , .	0.4	0