

Alexander Zaitsev

List of Publications by Year in descending order

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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	Development and application of laser cladding modeling technique: From coaxial powder feeding to surface deposition and bead formation. Applied Mathematical Modelling, 2018, 57, 339-359.	4.2	51
2	Diffusion Model of Combustion of Large Boron Particles. Combustion, Explosion and Shock Waves, 2018, 54, 442-449.	0.8	10
3	The model of large boron particles combustion. AIP Conference Proceedings, 2017, , .	0.4	0
4	Numerical simulation of transport phenomena, formation the bead and thermal behavior in application to industrial DMD technology. International Journal of Heat and Mass Transfer, 2016, 95, 902-912.	4.8	57
5	Modeling and Numerical Study of Light-propulsion Phenomena of Particles Acceleration in Coaxial Laser Powder Cladding. Physics Procedia, 2014, 56, 439-449.	1.2	10
6	Combustion Effects in Laser-oxygen Cutting: Basic Assumptions, Numerical Simulation and High Speed Visualization. Physics Procedia, 2014, 56, 865-874.	1.2	6
7	Fundamental study of CO ₂ - and fiber laser cutting of steel plates with high speed visualization technique. Journal of Laser Applications, 2014, 26, .	1.7	23
8	Numerical Simulation and Comparison of Powder Jet Profiles for Different Types of Coaxial Nozzles in Direct Material Deposition. Physics Procedia, 2013, 41, 870-872.	1.2	22
9	Comprehensive analysis of laser cladding by means of optical diagnostics and numerical simulation. Surface and Coatings Technology, 2013, 220, 112-121.	4.8	64
10	Parameterization of hybrid laser-assisted oxygen cutting of thick steel plates. Optics and Laser Technology, 2013, 47, 95-101.	4.6	8
11	Complex Analysis of Laser Cladding based on Comprehensive Optical Diagnostics and Numerical Simulation. Physics Procedia, 2012, 39, 743-752.	1.2	16
12	Mass and momentum transfer of oxygen jet to the melt in laser cutting of mild steel. , 2012, , .		0
13	Theoretical and Experimental Investigation of Gas Flows, Powder Transport and Heating in Coaxial Laser Direct Metal Deposition (DMD) Process. Journal of Thermal Spray Technology, 2011, 20, 465-478.	3.1	67
14	Modeling of flow separation of assist gas as applied to laser cutting of thick sheet metal. Applied Mathematical Modelling, 2009, 33, 3730-3745.	4.2	36
15	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
16	Formation of a vortex flow at the laser cutting of sheet metal with low pressure of assisting gas. Journal Physics D: Applied Physics, 2008, 41, 155112.	2.8	16
17	Laser cutting of thick steel sheets using supersonic oxygen jets. Quantum Electronics, 2007, 37, 891-892.	1.0	5
18	Modeling of the free-surface shape in laser cutting of metals. 2. Model of multiple reflection and absorption of radiation. Journal of Applied Mechanics and Technical Physics, 2005, 46, 9-13.	0.5	17

#	ARTICLE	IF	CITATIONS
19	Numerical analysis of the effect of the TEM ₀₀ radiation mode polarisation on the cut shape in laser cutting of thick metal sheets. Quantum Electronics, 2005, 35, 200-204.	1.0	20