Volodymyr Sydorets

List of Publications by Year
in descending order

36 papers	235 citations	1478505 6 h-index	1474206 9 g-index
36 all docs	36 docs citations	36 times ranked	75 citing authors

#	Article	IF	Citations
1	Effect of the structure on the mechanical properties and cracking resistance of welded joints of low-alloyed high-strength steels. Procedia Structural Integrity, 2019, 16, 89-96.	0.8	21
2	Multi-Pass Laser and Hybrid Laser-Arc Narrow-Gap Welding of Steel Butt Joints. Materials Science Forum, 0, 927, 64-71.	0.3	18
3	Welding Technology in Additive Manufacturing Processes of 3D Objects. Materials Science Forum, 0, 906, 121-130.	0.3	14
4	Physical and mechanical properties of high-strength steel joints produced by laser welding. , 2017, , .		14
5	Nanostructures in Welded Joints and Their Interconnection with Operation Properties. Lecture Notes in Mechanical Engineering, 2019, , 119-128.	0.4	14
6	Structure and Properties of Laser-Welded Joints from High-Strength Steels. Applied Mechanics and Materials, 0, 682, 240-245.	0.2	13
7	Crack Resistance of 14KhGN2MDAFB High-Strength Steel Joints Manufactured by Laser Welding. IOP Conference Series: Earth and Environmental Science, 0, 224, 012013.	0.3	12
8	Direct energy and energy storage circuit topologies of DC power supplies for micro resistance welding. , 2014, , .		11
9	Energy parameters in a mathematical model of a dynamic welding arc. Welding International, 1990, 4, 272-275.	0.7	10
10	Complicated travelling wave solutions of a modelling system describing media with memory and spatial nonlocality. Reports on Mathematical Physics, 1999, 44, 275-282.	0.8	9
11	Current and force control in micro resistance welding machines Review and development. , 2013, , .		9
12	On the Thermal and Electrical Characteristics of the Hybrid Plasma-MIG Welding Process. Materials Science Forum, 2017, 906, 63-71.	0.3	9
13	Mathematical modeling of the current density distribution in a high-frequency electrosurgery. , 2015, , .		8
14	Pore Formation during Laser Welding in Different Spatial Positions. Solid State Phenomena, 0, 303, 47-58.	0.3	8
15	Combined pulsed effect of shielding gases and welding current in consumable electrode welding. Welding International, 2014, 28, 962-965.	0.7	6
16	Estimation of supercapacitor efficiency in use for resistance welding. , 2015, , .		6
17	Increase of efficiency of electrosurgical tools for welding of live biological tissues. , 2016, , .		6
18	Contactless monitoring of welding processes with computer processing of acoustic emission signals. , 2018, , .		6

#	Article	IF	Citations
19	Effective circuit topology of DC power supply for micro resistance welding. , 2014, , .		5
20	Simulation of the Temperature Distribution with High-Frequency Electrosurgical Heating. , 2018, , .		5
21	The current distribution in the electrodes of electrosurgical instruments during welding of biological tissues. Eastern-European Journal of Enterprise Technologies, 2015, 3, 24.	0.5	5
22	Influence of skin effect on current flow through electrodes of electro-surgical instruments and biological tissue. , 2016, , .		4
23	Hybrid Energy Storage System of Power Supply for Micro Resistance Welding. , 2019, , .		4
24	A TECHNIQUE FOR EXPERIMENTAL DATA PROCESSING AT MODELING THE DISPERSION OF THE BIOLOGICAL TISSUE IMPEDANCE USING THE FRICKE EQUIVALENT CIRCUIT. Electrical Engineering & Electromechanics, 2017, .	0.6	4
25	Electrical characteristics of the equipment for the hybrid plasma-MIG welding. , 2017, , .		3
26	Analysis of the Current State of the Processes of Hybrid Laser-Plasma Welding. , 2017, , .		3
27	Bifurcation Processes in a Physical Model. International Applied Mechanics, 2016, 52, 326-332.	0.6	2
28	Mathematical Formula to Determine Geometrical Dimensions of Electrode Metal Droplets Transferred with Short Circuits. Materials Science Forum, 0, 938, 1-6.	0.3	2
29	Dependence of power quality on welding current regulation angle. , 2016, , .		1
30	On the Plasma Temperature in the Hybrid Plasma-MIG Welding Process. Applied Mechanics and Materials, 2017, 872, 61-66.	0.2	1
31	Study on the Resistive Heat Source in a Two-Phase Medium at High-Frequency Electrosurgical Intervention. Applied Mechanics and Materials, 2017, 873, 140-144.	0.2	1
32	Energy Parameters of Weld Formation Process in MIG-MAG Welding. Materials Science Forum, 0, 927, 99-105.	0.3	1
33	Analytical and numerical techniques for research of bifurcation processes in an electrical circuit with a laser-arc discharge. , 2015, , .		0
34	Dependence of input current quality on number of phases of multiphase interleaved PFC. , 2015, , .		0
35	Monitoring of Laser Welding Process Using Its Acoustic Emission Signal. Advances in Intelligent Systems and Computing, 2019, , 234-243.	0.6	0
36	ACCOUNTING OF THE BIOIMPEDANCE FEATURES AT HIGH FREQUENCY BY MODELS OF FRICKE AND COLE. Technical Electrodynamics, 2018, 2018, 22-25.	0.7	0