

Martin Hertel

List of Publications by Year in descending order

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15
papers

423
citations

1039880

9
h-index

996849

15
g-index

15
all docs

15
docs citations

15
times ranked

281
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a highly productive GMAW hot wire process using a two-dimensional arc deflection. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 873-883.	1.3	10
2	A simulation-aided least squares reconstruction scheme for the measurement of welding process heat flux distributions. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 1873-1882.	1.3	3
3	Thermal Efficiency Analysis for Laser-Assisted Plasma Arc Welding of AISI 304 Stainless Steel. <i>Materials</i> , 2019, 12, 1460.	1.3	14
4	Modifications to the gradient schemes on unstructured cell centered grids for the accurate determination of gradients near conductivity changes. <i>Physics of Fluids</i> , 2019, 31, .	1.6	4
5	Response to "Comment on "Modifications to the gradient schemes on unstructured cell centered grids for the accurate determination of gradients near conductivity changes" [Phys. Fluids 31, 129101 (2019)]. <i>Physics of Fluids</i> , 2019, 31, 129102.	1.6	1
6	Numerical simulation of weld pool dynamics using a SPH approach. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018, 62, 1013-1020.	1.3	9
7	The Role of Metal Vapour in Gas Metal Arc Welding and Methods of Combined Experimental and Numerical Process Analysis. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 531-547.	1.1	22
8	Design of gas trailing shields for TIG-welding of stainless steels. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 117-123.	1.3	1
9	Numerical simulation of TIG weld pool dynamics using smoothed particle hydrodynamics. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 842-853.	2.5	25
10	Numerical simulation of arc and droplet transfer in pulsed GMAW of mild steel in argon. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 1055-1061.	1.3	30
11	Numerical simulation of the plasma "MIG process" interactions of the arcs, droplet detachment and weld pool formation. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2014, 58, 85-92.	1.3	26
12	Numerical simulation of droplet detachment in pulsed gas "metal arc welding including the influence of metal vapour. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 224003.	1.3	74
13	Numerical and Experimental Studies of the Influence of Process Gases in Tig Welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2012, 56, 85-92.	1.3	21
14	Modelling of gas "metal arc welding taking into account metal vapour. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 434008.	1.3	92
15	Metal vapour causes a central minimum in arc temperature in gas "metal arc welding through increased radiative emission. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 022001.	1.3	91