

Martin Hertel

List of Publications by Year in descending order

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15
papers

423
citations

1039880

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996849

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g-index

15
all docs

15
docs citations

15
times ranked

281
citing authors

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