Dr-Ing Nasim Bakir

List of Publications by Year
in descending order

24 papers	569 citations	623574 14 h-index	677027 22 g-index
24 all docs	24 docs citations	24 times ranked	304 citing authors

#	Article	IF	Citations
1	In-situ monitoring of a laser metal deposition (LMD) process: comparison of MWIR, SWIR and high-speed NIR thermography. Quantitative InfraRed Thermography Journal, 2022, 19, 97-114.	2.1	36
2	High-power laser beam welding for thick section steels â€“ new perspectives using electromagnetic systems. Science and Technology of Welding and Joining, 2022, 27, 43-51.	1.5	3
3	Hybrid laser-arc welding of laser- and plasma-cut 20-mm-thick structural steels. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 507-514.	1.3	5
4	The detrimental molten pool narrowing phenomenon in wire feed laser beam welding and its suppression by magnetohydrodynamic technique. International Journal of Heat and Mass Transfer, 2022, 193, 122913.	2.5	11
5	Hybrid laser-arc welding of thick-walled pipe segments with optimization of the end crater. Procedia CIRP, 2020, 94, 676-679.	1.0	3
6	LamÃ© curve approximation for the assessment of the 3D temperature distribution in keyhole mode welding processes. Journal of Laser Applications, 2020, 32, .	0.8	4
7	Experimental and numerical study on the influence of the laser hybrid parameters in partial penetration welding on the solidification cracking in the weld root. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 501-511.	1.3	10
8	Improvement of Filler Wire Dilution Using External Oscillating Magnetic Field at Full Penetration Hybrid Laser-Arc Welding of Thick Materials. Metals, 2019, 9, 594.	1.0	18
9	On the search for the origin of the bulge effect in high power laser beam welding. Journal of Laser Applications, 2019, 31, .	0.8	18
10	Development of a novel optical measurement technique to investigate the hot cracking susceptibility during laser beam welding. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 435-441.	1.3	19
11	Investigation of solidification cracking susceptibility during laser beam welding using an in-situ observation technique. Science and Technology of Welding and Joining, 2018, 23, 234-240.	1.5	24
12	Study of gap and misalignment tolerances at hybrid laser arc welding of thick-walled steel with electromagnetic weld pool support system. Procedia CIRP, 2018, 74, 757-760.	1.0	11
13	Weld pool shape observation in high power laser beam welding. Procedia CIRP, 2018, 74, 683-686.	1.0	17
14	Numerical Simulation on the Origin of Solidification Cracking in Laser Welded Thick-Walled Structures. Metals, 2018, 8, 406.	1.0	16
15	Hybrid laser-arc welding of thick-walled ferromagnetic steels with electromagnetic weld pool support. Welding in the World, Le Soudage Dans Le Monde, 2018, 62, 767-774.	1.3	16
16	Numerical simulation of solidification crack formation during laser beam welding of austenitic stainless steels under external load. Welding in the World, Le Soudage Dans Le Monde, 2016, 60, 1001-1008.	1.3	12
17	Numerical investigation of energy input characteristics for high-power fiber laser welding at different positions. International Journal of Advanced Manufacturing Technology, 2015, 80, 931-946.	1.5	39
18	About the influence of a steady magnetic field on weld pool dynamics in partial penetration high power laser beam welding of thick aluminium parts. International Journal of Heat and Mass Transfer, 2013, 60, 309-321.	2.5	133

#	Article	IF	Citations
19	Numerical Analysis of Hot Cracking in Laser-Hybrid Welded Tubes. Advances in Materials Science and Engineering, 2013, 2013, 1-8.	1.0	17
20	Investigation of the hot cracking susceptibility of laser welds with the controlled tensile weldability test. Journal of Strain Analysis for Engineering Design, 2012, 47, 587-599.	1.0	16
21	Numerical simulation of full-penetration laser beam welding of thick aluminium plates with inductive support. Journal Physics D: Applied Physics, 2012, 45, 035201.	1.3	83
22	Hot cracking in high power laser beam welding of thick high strength structural steels under restraint conditions. , 2010, , .		5
23	Weld seam formation and mechanical properties of girth welds performed with laser-GMA-hybrid process on pipes of grade X65. , 2010, , .		6
24	Welding Thick Steel Plates with Fibre Lasers and GMAW. Welding in the World, Le Soudage Dans Le Monde, 2010, 54, R62-R70.	1.3	47