

# Dr-Ing Nasim Bakir

## List of Publications by Year in descending order

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Version: 2024-02-01

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	About the influence of a steady magnetic field on weld pool dynamics in partial penetration high power laser beam welding of thick aluminium parts. <i>International Journal of Heat and Mass Transfer</i> , 2013, 60, 309-321.	2.5	133
2	Numerical simulation of full-penetration laser beam welding of thick aluminium plates with inductive support. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 035201.	1.3	83
3	Welding Thick Steel Plates with Fibre Lasers and GMAW. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2010, 54, R62-R70.	1.3	47
4	Numerical investigation of energy input characteristics for high-power fiber laser welding at different positions. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 80, 931-946.	1.5	39
5	In-situ monitoring of a laser metal deposition (LMD) process: comparison of MWIR, SWIR and high-speed NIR thermography. <i>Quantitative InfraRed Thermography Journal</i> , 2022, 19, 97-114.	2.1	36
6	Investigation of solidification cracking susceptibility during laser beam welding using an in-situ observation technique. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 234-240.	1.5	24
7	Development of a novel optical measurement technique to investigate the hot cracking susceptibility during laser beam welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 435-441.	1.3	19
8	Improvement of Filler Wire Dilution Using External Oscillating Magnetic Field at Full Penetration Hybrid Laser-Arc Welding of Thick Materials. <i>Metals</i> , 2019, 9, 594.	1.0	18
9	On the search for the origin of the bulge effect in high power laser beam welding. <i>Journal of Laser Applications</i> , 2019, 31, .	0.8	18
10	Numerical Analysis of Hot Cracking in Laser-Hybrid Welded Tubes. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-8.	1.0	17
11	Weld pool shape observation in high power laser beam welding. <i>Procedia CIRP</i> , 2018, 74, 683-686.	1.0	17
12	Investigation of the hot cracking susceptibility of laser welds with the controlled tensile weldability test. <i>Journal of Strain Analysis for Engineering Design</i> , 2012, 47, 587-599.	1.0	16
13	Numerical Simulation on the Origin of Solidification Cracking in Laser Welded Thick-Walled Structures. <i>Metals</i> , 2018, 8, 406.	1.0	16
14	Hybrid laser-arc welding of thick-walled ferromagnetic steels with electromagnetic weld pool support. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018, 62, 767-774.	1.3	16
15	Numerical simulation of solidification crack formation during laser beam welding of austenitic stainless steels under external load. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 1001-1008.	1.3	12
16	Study of gap and misalignment tolerances at hybrid laser arc welding of thick-walled steel with electromagnetic weld pool support system. <i>Procedia CIRP</i> , 2018, 74, 757-760.	1.0	11
17	The detrimental molten pool narrowing phenomenon in wire feed laser beam welding and its suppression by magnetohydrodynamic technique. <i>International Journal of Heat and Mass Transfer</i> , 2022, 193, 122913.	2.5	11
18	Experimental and numerical study on the influence of the laser hybrid parameters in partial penetration welding on the solidification cracking in the weld root. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 501-511.	1.3	10

#	ARTICLE	IF	CITATIONS
19	Weld seam formation and mechanical properties of girth welds performed with laser-GMA-hybrid process on pipes of grade X65. , 2010, , .		6
20	Hot cracking in high power laser beam welding of thick high strength structural steels under restraint conditions. , 2010, , .		5
21	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
22	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
23	Hybrid laser-arc welding of thick-walled pipe segments with optimization of the end crater. Procedia CIRP, 2020, 94, 676-679.	1.0	3
24	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