

# Benjamin Graf

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

588  
citations

840776

11  
h-index

888059

17  
g-index

19  
all docs

19  
docs citations

19  
times ranked

475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Metal Deposition as Repair Technology for Stainless Steel and Titanium Alloys. Physics Procedia, 2012, 39, 376-381.	1.2	170
2	Laser Metal Deposition as Repair Technology for a Gas Turbine Burner Made of Inconel 718. Physics Procedia, 2016, 83, 761-768.	1.2	84
3	In-situ distortions in LMD additive manufacturing walls can be measured with digital image correlation and predicted using numerical simulations. Additive Manufacturing, 2018, 20, 101-110.	3.0	79
4	Design of Experiments for Laser Metal Deposition in Maintenance, Repair and Overhaul Applications. Procedia CIRP, 2013, 11, 245-248.	1.9	74
5	Finite element analysis of in-situ distortion and bulging for an arbitrarily curved additive manufacturing directed energy deposition geometry. Additive Manufacturing, 2018, 24, 264-272.	3.0	36
6	Geometric distortion-compensation via transient numerical simulation for directed energy deposition additive manufacturing. Science and Technology of Welding and Joining, 2020, 25, 468-475.	3.1	27
7	Build-up strategies for additive manufacturing of three dimensional Ti-6Al-4V-parts produced by laser metal deposition. Journal of Laser Applications, 2018, 30, .	1.7	18
8	Microstructure of Inconel 718 parts with constant mass energy input manufactured with direct energy deposition. Procedia Manufacturing, 2019, 36, 256-266.	1.9	18
9	3D laser metal deposition: process steps for additive manufacturing. Welding in the World, Le Soudage Dans Le Monde, 2018, 62, 877-883.	2.5	15
10	Assessing the predictive capability of numerical additive manufacturing simulations via in-situ distortion measurements on a LMD component during build-up. Procedia CIRP, 2018, 74, 158-162.	1.9	14
11	Embedding electronics into additive manufactured components using laser metal deposition and selective laser melting. Procedia CIRP, 2018, 74, 168-171.	1.9	14
12	Build-up strategies for temperature control using laser metal deposition for additive manufacturing. Welding in the World, Le Soudage Dans Le Monde, 2018, 62, 1073-1081.	2.5	11
13	Effects on the distortion of Inconel 718 components along a hybrid laser-based additive manufacturing process chain using laser powder bed fusion and laser metal deposition. Progress in Additive Manufacturing, 2021, 6, 385-394.	4.8	8
14	Statistical analysis of weld bead geometry in Ti6Al4V laser cladding. Materialpruefung/Materials Testing, 2017, 59, 837-843.	2.2	8
15	Porosity of LMD manufactured parts analyzed by Archimedes method and CT. Materialpruefung/Materials Testing, 2018, 60, 1055-1060.	2.2	6
16	Additive Prozesskette zur Instandsetzung von Bauteilen. Laser Technik Journal, 2013, 10, 31-35.	0.2	4
17	Build-up strategies for additive manufacturing of three dimensional Ti-6Al-4V-parts produced by laser metal deposition. , 2017, , .		1
18	Laser-plasma-cladding as a hybrid metal deposition-technology applying a SLM-produced copper plasma nozzle. Procedia CIRP, 2018, 74, 738-742.	1.9	1

#	ARTICLE	IF	CITATIONS
19	Application of D-optimum Experimental Designs in Consideration of Restrictions for Laser Metal Deposition. Global Nuclear Safety, 2017, 11, 46-60.	0.3	0