

Thomas Hassel

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

521
citations

840776

11
h-index

677142

22
g-index

38
all docs

38
docs citations

38
times ranked

568
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-temperature degradation of different zirconia ceramics for dental applications. Acta Biomaterialia, 2012, 8, 1213-1220.	8.3	208
2	Biocompatibility of fluoride-coated magnesium-calcium alloys with optimized degradation kinetics in a subcutaneous mouse model. Journal of Biomedical Materials Research - Part A, 2013, 101A, 33-43.	4.0	37
3	Properties and anisotropy behaviour of a nickel base alloy material produced by robot-based wire and arc additive manufacturing. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 1921-1931.	2.5	29
4	Effect of the water depth on the hydrogen content in SMAW wet welded joints. SN Applied Sciences, 2020, 2, 1.	2.9	28
5	Investigation of the coating thickness of plasma-transferred arc deposition welded and cross wedge rolled hybrid parts. Production Engineering, 2017, 11, 255-263.	2.3	19
6	Manufacturing and Evaluation of Multi-Material Axial-Bearing Washers by Tailored Forming. Metals, 2019, 9, 232.	2.3	18
7	The Applicability of the Standard DIN EN ISO 3690 for the Analysis of Diffusible Hydrogen Content in Underwater Wet Welding. Materials, 2020, 13, 3750.	2.9	15
8	Temperature control with internally applied cooling in solid material drilling: an experimental, biomechanical study. International Orthopaedics, 2013, 37, 1355-1361.	1.9	13
9	Manufacturing of High-Performance Bi-Metal Bevel Gears by Combined Deposition Welding and Forging. Metals, 2018, 8, 898.	2.3	13
10	Induction Heating in Underwater Wet Welding Thermal Input, Microstructure and Diffusible Hydrogen Content. Materials, 2022, 15, 1417.	2.9	12
11	In vivo degradation of magnesium alloy LA63 scaffolds for temporary stabilization of biological myocardial grafts in a swine model. Biomedizinische Technik, 2013, 58, 407-16.	0.8	11
12	Tribological Study on Tailored-Formed Axial Bearing Washers. Tribology Online, 2018, 13, 320-326.	0.9	11
13	Investigations on Tailored Forming of AISI 52100 as Rolling Bearing Raceway. Metals, 2020, 10, 1363.	2.3	11
14	Intra-prosthetic screw fixation increases primary fixation stability in periprosthetic fractures of the femur A biomechanical study. Medical Engineering and Physics, 2014, 36, 239-243.	1.7	9
15	Control of the diffusible hydrogen content in different steel phases through the targeted use of different welding consumables in underwater wet welding. Materials and Corrosion - Werkstoffe Und Korrosion, 2021, 72, 504-516.	1.5	9
16	Numerical Simulation and Experimental Validation of the Cladding Material Distribution of Hybrid Semi-Finished Products Produced by Deposition Welding and Cross-Wedge Rolling. Metals, 2020, 10, 1336.	2.3	8
17	Intra-prosthetic fixation techniques in the treatment of periprosthetic fractures-A biomechanical study. World Journal of Orthopedics, 2012, 3, 162.	1.8	8
18	Detection of the contact tube to working distance in wire and arc additive manufacturing. International Journal of Advanced Manufacturing Technology, 2022, 120, 989-999.	3.0	8

#	ARTICLE	IF	CITATIONS
19	Surface Zone Modification by Atmospheric Plasma-Nitriding (APN) with the Aid of the Transmitted Plasma-Arc. Key Engineering Materials, 2010, 438, 147-154.	0.4	7
20	Investigation of the joining zone of laser welded and cross wedge rolled hybrid parts. International Journal of Material Forming, 2018, 11, 829-837.	2.0	6
21	Different thermal conductivity in drilling of cemented compared with cementless hip prostheses in the treatment of periprosthetic fractures of the proximal femur—an experimental biomechanical analysis. International Orthopaedics, 2013, 37, 1885-1889.	1.9	5
22	The Effect of SiC Addition on Microstructure and Mechanical Properties of Gas Tungsten Arc-Welded Ti-6Al-4V Alloy. Journal of Materials Engineering and Performance, 2018, 27, 253-260.	2.5	4
23	Cross-wedge rolling of PTA-welded hybrid steel billets with rolling bearing steel and hard material coatings. AIP Conference Proceedings, 2019, , .	0.4	4
24	Phase and Structural Transformations in Heat Resistant Alloys during Direct Laser Deposition. Key Engineering Materials, 2019, 822, 389-395.	0.4	4
25	Impact of intraprosthetic drilling on the strength of the femoral stem in periprosthetic fractures: A finite element investigation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 675-681.	1.8	3
26	Influence of degree of deformation on welding pore reduction in high-carbon steels. Production Engineering, 2021, 15, 161-168.	2.3	3
27	Modelling of heat transfer process in non-vacuum electron beam additive manufacturing with CuSi3 alloy wire. Materials Today: Proceedings, 2020, 30, 373-379.	1.8	3
28	Material dependent surface and subsurface properties of hybrid components. Production Engineering, 2022, 16, 647-659.	2.3	3
29	Investigation of the mechanical properties and corrosion behaviour of hybrid L 80 Type 1 and duplex steel joints produced by magnetically impelled arc butt welding. Journal of Advanced Joining Processes, 2022, 5, 100109.	2.7	3
30	Robot guided water jet cutting to assist osteotomies of human bones. , 2014, , .		2
31	Research of the Structure Defects at Wire-Feed Laser and Laser-Arc Deposition with AlMg6. Key Engineering Materials, 0, 822, 504-511.	0.4	2
32	Development of filler wire for underwater welding as a repair tool for adaptation on AUV. , 2009, , .		1
33	Novel Repair Concept for Composite Materials by Repetitive Geometrical Interlock Elements. Materials, 2011, 4, 2219-2230.	2.9	1
34	Surface Integrity of Laser Beam Welded Steel—Aluminium Alloy Hybrid Shafts after Turning. Metals, 2019, 9, 134.	2.3	1
35	Plasma nitriding Ti-6Al-4V with the aid non-transmitted plasma-arc using different protection atmosphere. Materials Today: Proceedings, 2020, 30, 694-699.	1.8	1
36	Investigation of the influence of the forming process and finishing processes on the properties of the surface and subsurface of hybrid components. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	1

#	ARTICLE	IF	CITATIONS
37	Manufacturing of Large-Diameter Rolling Element Bearings by Steel-Steel Multimaterial Systems. , 2020, , 277-299.		0