

Marlon Hahn

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

430
citations

933447

10
h-index

794594

19
g-index

44
all docs

44
docs citations

44
times ranked

347
citing authors

#	ARTICLE	IF	CITATIONS
1	Speeding up Additive Manufacturing by Means of Forming for Sheet Components with Core Structures. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 1021-1034.	4.9	4
2	Hybrid additive manufacturing of metal laminated forming tools. CIRP Annals - Manufacturing Technology, 2022, 71, 225-228.	3.6	6
3	Strain path dependency in incremental sheet-bulk metal forming. International Journal of Material Forming, 2021, 14, 547-561.	2.0	10
4	Adjusting residual stresses by flexible stress superposition in incremental sheet metal forming. Archive of Applied Mechanics, 2021, 91, 3489-3499.	2.2	10
5	Analysis of Proximity Consequences of Coil Windings in Electromagnetic Forming. Journal of Manufacturing and Materials Processing, 2021, 5, 45.	2.2	2
6	Targeted residual stress generation in single and two point incremental sheet forming (ISF). Archive of Applied Mechanics, 2021, 91, 3465-3487.	2.2	7
7	Part-optimized forming by spatially distributed vaporizing foil actuators. International Journal of Material Forming, 2021, 14, 1391-1401.	2.0	1
8	Force reduction by electrical assistance in incremental sheet-bulk metal forming of gears. Journal of Materials Processing Technology, 2021, 296, 117194.	6.3	6
9	Effect of Process Parameters on Wavy Interfacial Morphology During Magnetic Pulse Welding. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	2.2	10
10	Incremental Sheet-Bulk Metal Forming by Application of Thermal-Controlled Grading Mechanisms. Lecture Notes in Production Engineering, 2021, , 493-514.	0.4	0
11	Analytical process design for interference-fit joining of rectangular profiles. Journal of Materials Processing Technology, 2020, 276, 116391.	6.3	2
12	Joining dissimilar thin-walled tubes by Magnetic Pulse Welding. Journal of Materials Processing Technology, 2020, 279, 116562.	6.3	25
13	Interaction of Process Parameters, Forming Mechanisms, and Residual Stresses in Single Point Incremental Forming. Metals, 2020, 10, 656.	2.3	15
14	A quick model for demonstrating high speed forming capabilities. Mechanics Research Communications, 2020, 108, 103579.	1.8	3
15	Experimental and Numerical Analysis of the Influence of Burst Pressure Distribution on Rapid Free Sheet Forming by Vaporizing Foil Actuators. Metals, 2020, 10, 845.	2.3	3
16	Lightweight in Automotive Components by Forming Technology. Automotive Innovation, 2020, 3, 195-209.	5.1	69
17	Magnetic Field Measurements during Magnetic Pulse Welding Using CMR-B-Scalar Sensors. Sensors, 2020, 20, 5925.	3.8	7
18	Novel Approach and Interpretation for the Determination of Electromagnetic Forming Limits. Materials, 2020, 13, 4175.	2.9	7

#	ARTICLE	IF	CITATIONS
19	Controlling material flow in incremental sheet-bulk metal Forming by thermal grading. Procedia Manufacturing, 2020, 50, 257-264.	1.9	4
20	Joining by die-less hydroforming with outer pressurization. Journal of Advanced Joining Processes, 2020, 1, 100014.	2.7	1
21	Distortion and Dilution Behavior for Laser Metal Deposition onto Thin Sheet Metals. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 625-634.	4.9	15
22	Effect of the unbending process on mechanical properties before and after flattening of extruded open tubes of magnesium alloy ME20. AIP Conference Proceedings, 2019, , .	0.4	0
23	Effect of the wall thickness on the forming behavior and welding result during magnetic pulse welding. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 883-892.	0.9	3
24	Experimental and numerical investigations of joining by electromagnetic forming for aeronautical applications. AIP Conference Proceedings, 2019, , .	0.4	1
25	Magnetic pulse welding of tubular parts. AIP Conference Proceedings, 2019, , .	0.4	3
26	Influence of tool path strategies on the residual stress development in single point incremental forming. Procedia Manufacturing, 2019, 29, 53-58.	1.9	13
27	Simulation approach for three-point plastic bending of additively manufactured Hastelloy X sheets. Procedia Manufacturing, 2019, 34, 475-481.	1.9	8
28	Thermal Effects in Dissimilar Magnetic Pulse Welding. Metals, 2019, 9, 348.	2.3	13
29	Experimental study on the magnetic pulse welding process of large aluminum tubes on steel rods. IOP Conference Series: Materials Science and Engineering, 2019, 480, 012033.	0.6	4
30	Influence of the preheating strategy on the deep drawing of extruded magnesium alloy ME20 sheets. IOP Conference Series: Materials Science and Engineering, 2019, 651, 012067.	0.6	3
31	Light enough or go lighter?. Materials and Design, 2019, 163, 107545.	7.0	6
32	Forming mechanisms-related residual stress development in single point incremental forming. Production Engineering, 2019, 13, 149-156.	2.3	9
33	Setting Component Properties in Incremental Forming. , 2019, , .		3
34	Setting Component Properties in Incremental Forming. , 2019, , .		1
35	Thermoplastic fibre metal laminates: Stiffness properties and forming behaviour by means of deep drawing. Archives of Civil and Mechanical Engineering, 2018, 18, 442-450.	3.8	38
36	Prediction of Process Forces in Fiber Metal Laminate Stamping. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	8

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37	Springback Behavior of Carbon-Fiber-Reinforced Plastic Laminates With Metal Cover Layers in V-Die Bending. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	2.2	12
38	Analytical approach for magnetic pulse welding of sheet connections. Journal of Materials Processing Technology, 2016, 230, 131-142.	6.3	39
39	Vaporizing foil actuator welding as a competing technology to magnetic pulse welding. Journal of Materials Processing Technology, 2016, 230, 8-20.	6.3	26
40	Uniform Pressure Electromagnetic Actuator " An Innovative Tool for Magnetic Pulse Welding. Procedia CIRP, 2014, 18, 156-161.	1.9	30
41	Electrically Driven Plasma via Vaporization of Metallic Conductors: A Novel Tool for Joining Tubular Workpieces. Procedia CIRP, 2014, 18, 62-67.	1.9	2