

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	Lightweight in Automotive Components by Forming Technology. Automotive Innovation, 2020, 3, 195-209.	5.1	69
2	Analytical approach for magnetic pulse welding of sheet connections. Journal of Materials Processing Technology, 2016, 230, 131-142.	6.3	39
3	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
4	Uniform Pressure Electromagnetic Actuator " An Innovative Tool for Magnetic Pulse Welding. Procedia CIRP, 2014, 18, 156-161.	1.9	30
5	Vaporizing foil actuator welding as a competing technology to magnetic pulse welding. Journal of Materials Processing Technology, 2016, 230, 8-20.	6.3	26
6	Joining dissimilar thin-walled tubes by Magnetic Pulse Welding. Journal of Materials Processing Technology, 2020, 279, 116562.	6.3	25
7	Interaction of Process Parameters, Forming Mechanisms, and Residual Stresses in Single Point Incremental Forming. Metals, 2020, 10, 656.	2.3	15
8	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
9	Influence of tool path strategies on the residual stress development in single point incremental forming. Procedia Manufacturing, 2019, 29, 53-58.	1.9	13
10	Thermal Effects in Dissimilar Magnetic Pulse Welding. Metals, 2019, 9, 348.	2.3	13
11	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
12	Strain path dependency in incremental sheet-bulk metal forming. International Journal of Material Forming, 2021, 14, 547-561.	2.0	10
13	Adjusting residual stresses by flexible stress superposition in incremental sheet metal forming. Archive of Applied Mechanics, 2021, 91, 3489-3499.	2.2	10
14	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
15	Forming mechanisms-related residual stress development in single point incremental forming. Production Engineering, 2019, 13, 149-156.	2.3	9
16	Prediction of Process Forces in Fiber Metal Laminate Stamping. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	8
17	Simulation approach for three-point plastic bending of additively manufactured Hastelloy X sheets. Procedia Manufacturing, 2019, 34, 475-481.	1.9	8
18	Magnetic Field Measurements during Magnetic Pulse Welding Using CMR-B-Scalar Sensors. Sensors, 2020, 20, 5925.	3.8	7

#	ARTICLE	IF	CITATIONS
19	Novel Approach and Interpretation for the Determination of Electromagnetic Forming Limits. <i>Materials</i> , 2020, 13, 4175.	2.9	7
20	Targeted residual stress generation in single and two point incremental sheet forming (ISF). <i>Archive of Applied Mechanics</i> , 2021, 91, 3465-3487.	2.2	7
21	Light enough or go lighter?. <i>Materials and Design</i> , 2019, 163, 107545.	7.0	6
22	Force reduction by electrical assistance in incremental sheet-bulk metal forming of gears. <i>Journal of Materials Processing Technology</i> , 2021, 296, 117194.	6.3	6
23	Hybrid additive manufacturing of metal laminated forming tools. <i>CIRP Annals - Manufacturing Technology</i> , 2022, 71, 225-228.	3.6	6
24	Experimental study on the magnetic pulse welding process of large aluminum tubes on steel rods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 480, 012033.	0.6	4
25	Controlling material flow in incremental sheet-bulk metal Forming by thermal grading. <i>Procedia Manufacturing</i> , 2020, 50, 257-264.	1.9	4
26	Speeding up Additive Manufacturing by Means of Forming for Sheet Components with Core Structures. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2022, 9, 1021-1034.	4.9	4
27	Effect of the wall thickness on the forming behavior and welding result during magnetic pulse welding. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019, 50, 883-892.	0.9	3
28	Magnetic pulse welding of tubular parts. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	3
29	Influence of the preheating strategy on the deep drawing of extruded magnesium alloy ME20 sheets. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 651, 012067.	0.6	3
30	A quick model for demonstrating high speed forming capabilities. <i>Mechanics Research Communications</i> , 2020, 108, 103579.	1.8	3
31	Experimental and Numerical Analysis of the Influence of Burst Pressure Distribution on Rapid Free Sheet Forming by Vaporizing Foil Actuators. <i>Metals</i> , 2020, 10, 845.	2.3	3
32	Setting Component Properties in Incremental Forming. , 2019, , .		3
33	Electrically Driven Plasma via Vaporization of Metallic Conductors: A Novel Tool for Joining Tubular Workpieces. <i>Procedia CIRP</i> , 2014, 18, 62-67.	1.9	2
34	Analytical process design for interference-fit joining of rectangular profiles. <i>Journal of Materials Processing Technology</i> , 2020, 276, 116391.	6.3	2
35	Analysis of Proximity Consequences of Coil Windings in Electromagnetic Forming. <i>Journal of Manufacturing and Materials Processing</i> , 2021, 5, 45.	2.2	2
36	Experimental and numerical investigations of joining by electromagnetic forming for aeronautical applications. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1

#	ARTICLE	IF	CITATIONS
37	Joining by die-less hydroforming with outer pressurization. Journal of Advanced Joining Processes, 2020, 1, 100014.	2.7	1
38	Part-optimized forming by spatially distributed vaporizing foil actuators. International Journal of Material Forming, 2021, 14, 1391-1401.	2.0	1
39	Setting Component Properties in Incremental Forming. , 2019, , .		1
40	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
41	Incremental Sheet-Bulk Metal Forming by Application of Thermal-Controlled Grading Mechanisms. Lecture Notes in Production Engineering, 2021, , 493-514.	0.4	0