Verena Psyk

List of Publications by Year
in descending order

36	351	840776 11	839539 18
papers	citations	h-index	g-index

36	36	36	159
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of groove characteristics on strength of form-fit joints. Journal of Materials Processing Technology, 2011, 211, 925-935.	6.3	61
2	Process analysis for magnetic pulse welding of similar and dissimilar material sheet metal joints. Procedia Engineering, 2017, 207, 353-358.	1.2	35
3	Production of low-volume aviation components using disposable electromagnetic actuators. Journal of Materials Processing Technology, 2011, 211, 886-895.	6.3	29
4	Integration of Electromagnetic Calibration into the Deep Drawing Process of an Industrial Demonstrator Part. Key Engineering Materials, 2007, 344, 435-442.	0.4	27
5	Process Development for a Superplastic Hot Tube Gas Forming Process of Titanium (Ti-3Al-2.5V) Hollow Profiles. Metals, 2020, 10, 1150.	2.3	21
6	Electromagnetic Joining of Hybrid Tubes for Hydroforming. Procedia CIRP, 2014, 23, 1-6.	1.9	18
7	Structuring by electromagnetic forming and by forming with an elastomer punch as a tool for component optimisation regarding mechanical stiffness and acoustic performance. Manufacturing Review, 2015, 2, 23.	1.5	17
8	Processing Q&P steels by hot-metal gas forming: Influence of local cooling rates on the properties and microstructure of a 3rd generation AHSS. Journal of Materials Processing Technology, 2021, 293, 117070.	6.3	17
9	Effect of the Welding Parameters on the Structural and Mechanical Properties of Aluminium and Copper Sheet Joints by Electromagnetic Pulse Welding. World Journal of Engineering and Technology, 2016, 04, 538-561.	0.5	15
10	Conductive Heating during Press Hardening by Hot Metal Gas Forming for Curved Complex Part Geometries. Metals, 2020, 10, 1104.	2.3	14
11	Determination of Material and Failure Characteristics for High-Speed Forming via High-Speed Testing and Inverse Numerical Simulation. Journal of Manufacturing and Materials Processing, 2020, 4, 31.	2.2	14
12	Manufacturing of hybrid aluminum copper joints by electromagnetic pulse welding â€“ Identification of quantitative process windows. AIP Conference Proceedings, 2017, , .	0.4	10
13	Adiabatic Blanking: Influence of Clearance, Impact Energy, and Velocity on the Blanked Surface. Journal of Manufacturing and Materials Processing, 2021, 5, 35.	2.2	9
14	Experimental and Numerical Investigations into Magnetic Pulse Welding of Aluminum Alloy 6016 to Hardened Steel 22MnB5. Journal of Manufacturing and Materials Processing, 2021, 5, 66.	2.2	8
15	Principle and setup for characterization of material parameters for high speed forming and cutting. Procedia Engineering, 2017, 207, 2000-2005.	1.2	7
16	Experimental and numerical analysis of incremental magnetic pulse welding of dissimilar sheet metals. Manufacturing Review, 2019, 6, 7.	1.5	7
17	Process Design for the Manufacturing of Magnetic Pulse Welded Joints. Key Engineering Materials, 2011, 473, 243-250.	0.4	5
18	Testing of magnetic pulse welded joints â€“ Destructive and non-destructive methods. AIP Conference Proceedings, 2019, , .	0.4	5

#	Article	IF	Citations
19	A Novel Tool Design Strategy for Electromagnetic Forming. Advanced Materials Research, 0, 1018, 333-340.	0.3	4
20	Werkzeugauslegung fÃ¼r das elektromagnetische FÃ¼gen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2013, 108, 831-836.	0.3	4
21	Inkrementelle elektromagnetische Umformung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2017, 112, 454-458.	0.3	4
22	Comparative Analysis of Electrohydraulic and Electromagnetic Sheet Metal Forming against the Background of the Application as an Incremental Processing Technology. Metals, 2022, 12, 660.	2.3	4
23	Shaping of Sharp-Edged Design Elements by Electromagnetic Forming. Minerals, Metals and Materials Series, 2021, , 1315-1327.	0.4	3
24	Optimisation of component performance via structuring. MATEC Web of Conferences, 2015, 21, 11001.	0.2	2
25	Characterization of material parameters for high speed forming and cutting via experiment and inverse simulation. AIP Conference Proceedings, 2018, , .	0.4	2
26	Electromagnetic pulse forming. , 2020, , 111-142.		2
27	VerschleiÃŸerscheinungen an PMund HM-Stempeln beim Stanzen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 621-624.	0.3	2
28	Local Temperature Development in the Fracture Zone during Uniaxial Tensile Testing at High Strain Rate: Experimental and Numerical Investigations. Applied Sciences (Switzerland), 2022, 12, 2299.	2.5	2
29	New lightweight construction prospects enabled by hydroforming. MATEC Web of Conferences, 2015, 21, 06004.	0.2	1
30	Erprobung anwendungsadaptierter CVD-Diamantschichten beim Stanzen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 464-468.	0.3	1
31	Integration of Electromagnetic Calibration into the Deep Drawing Process of an Industrial Demonstrator Part. Key Engineering Materials, 0, , 435-442.	0.4	1
32	Incremental magnetic pulse welding of dissimilar sheet metals. MATEC Web of Conferences, 2018, 190, 02004.	0.2	0
33	Toward an Efficient Industrial Implementation of W-temper Forming for 7xxx Series Al Alloys. Minerals, Metals and Materials Series, 2021, , 935-947.	0.4	0
34	Temperierte Innenhochdruck- Umformung von Titan Grade 2. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 914-919.	0.3	0
35	Punching of Ultra-High-Strength Spring Strips: Evolution of Cutting Edge Radius up to 1,000,000 Strokes for Three Punch Materials. Journal of Manufacturing and Materials Processing, 2022, 6, 38.	2.2	0
36	Impulse-Based Manufacturing Technologies. Journal of Manufacturing and Materials Processing, 2021, 5, 133.	2.2	0