

# Verena Psyk

## List of Publications by Year in descending order

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papers

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citations

840776

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36  
times ranked

159  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Shaping of Sharp-Edged Design Elements by Electromagnetic Forming. Minerals, Metals and Materials Series, 2021, , 1315-1327.	0.4	3
5	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
6	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
7	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
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	Erprobung anwendungsadaptierter CVD-Diamantschichten beim Stanzen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 464-468.	0.3	1
10	Impulse-Based Manufacturing Technologies. Journal of Manufacturing and Materials Processing, 2021, 5, 133.	2.2	0
11	Electromagnetic pulse forming. , 2020, , 111-142.		2
12	Conductive Heating during Press Hardening by Hot Metal Gas Forming for Curved Complex Part Geometries. Metals, 2020, 10, 1104.	2.3	14
13	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
14	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
15	Verschleißerscheinungen an PMund HM-Stempeln beim Stanzen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 621-624.	0.3	2
16	Temperierte Innenhochdruck- Umformung von Titan Grade 2. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 914-919.	0.3	0
17	Testing of magnetic pulse welded joints – Destructive and non-destructive methods. AIP Conference Proceedings, 2019, , .	0.4	5
18	Experimental and numerical analysis of incremental magnetic pulse welding of dissimilar sheet metals. Manufacturing Review, 2019, 6, 7.	1.5	7

#	ARTICLE	IF	CITATIONS
19	Incremental magnetic pulse welding of dissimilar sheet metals. MATEC Web of Conferences, 2018, 190, 02004.	0.2	0
20	Characterization of material parameters for high speed forming and cutting via experiment and inverse simulation. AIP Conference Proceedings, 2018, , .	0.4	2
21	Manufacturing of hybrid aluminum copper joints by electromagnetic pulse welding – Identification of quantitative process windows. AIP Conference Proceedings, 2017, , .	0.4	10
22	Principle and setup for characterization of material parameters for high speed forming and cutting. Procedia Engineering, 2017, 207, 2000-2005.	1.2	7
23	Process analysis for magnetic pulse welding of similar and dissimilar material sheet metal joints. Procedia Engineering, 2017, 207, 353-358.	1.2	35
24	Inkrementelle elektromagnetische Umformung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2017, 112, 454-458.	0.3	4
25	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
26	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
27	New lightweight construction prospects enabled by hydroforming. MATEC Web of Conferences, 2015, 21, 06004.	0.2	1
28	Optimisation of component performance via structuring. MATEC Web of Conferences, 2015, 21, 11001.	0.2	2
29	Electromagnetic Joining of Hybrid Tubes for Hydroforming. Procedia CIRP, 2014, 23, 1-6.	1.9	18
30	Werkzeugauslegung für das elektromagnetische Fügen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2013, 108, 831-836.	0.3	4
31	Production of low-volume aviation components using disposable electromagnetic actuators. Journal of Materials Processing Technology, 2011, 211, 886-895.	6.3	29
32	Influence of groove characteristics on strength of form-fit joints. Journal of Materials Processing Technology, 2011, 211, 925-935.	6.3	61
33	Process Design for the Manufacturing of Magnetic Pulse Welded Joints. Key Engineering Materials, 2011, 473, 243-250.	0.4	5
34	Integration of Electromagnetic Calibration into the Deep Drawing Process of an Industrial Demonstrator Part. Key Engineering Materials, 2007, 344, 435-442.	0.4	27
35	A Novel Tool Design Strategy for Electromagnetic Forming. Advanced Materials Research, 0, 1018, 333-340.	0.3	4
36	Integration of Electromagnetic Calibration into the Deep Drawing Process of an Industrial Demonstrator Part. Key Engineering Materials, 0, , 435-442.	0.4	1