

Marion Merklein

List of Publications by Year in descending order

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348
papers

6,447
citations

126907

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95266

68
g-index

352
all docs

352
docs citations

352
times ranked

3084
citing authors

#	ARTICLE	IF	CITATIONS
1	Alloy design and adaptation for additive manufacture. Journal of Materials Processing Technology, 2022, 299, 117358.	6.3	41
2	Investigation of the joinability of single- and multi-layered AA6014 sheets produced by accumulative roll bonding in the shear-clinching process. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1258-1269.	1.1	1
3	Process-adapted temperature application within a two-stage rivet forming process for high nitrogen steel. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1285-1301.	1.1	2
4	Joining of CFRT-steel hybrid parts via hole-forming and subsequent pin caulking. Production Engineering, 2022, 16, 339-352.	2.3	4
5	A novel ultrasonic-assisted staking process for mechanical fasteners. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1176-1186.	1.1	1
6	Consideration of the manufacturing history of sheet metal components for the adaptation of a clinching process. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1203-1215.	1.1	1
7	Joining by forming technologies: current solutions and future trends. International Journal of Material Forming, 2022, 15, 1.	2.0	11
8	Characterization of sheet metal components by using an upsetting test with miniaturized cylindrical specimen. CIRP Annals - Manufacturing Technology, 2022, , .	3.6	1
9	Investigation of the joinability of the high-strength aluminum alloy AA7075 in shear-clinching processes. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1236-1245.	1.1	4
10	Influence of Metal Gear Tooth Geometry on Load and Wear within Metal-Polymer Gear Pairs. Applied Sciences (Switzerland), 2022, 12, 270.	2.5	1
11	Review on mechanical joining by plastic deformation. Journal of Advanced Joining Processes, 2022, 5, 100113.	2.7	43
12	Joining of CFRT/Steel Hybrid Parts via Direct Pressing of Cold Formed Non-Rotational Symmetric Pin Structures. Applied Sciences (Switzerland), 2022, 12, 4962.	2.5	5
13	Analysis of Distributed-Ledger-Technology for the Exchange of Design, Production and Simulation Data in Roll Forming. IOP Conference Series: Materials Science and Engineering, 2022, 1238, 012070.	0.6	0
14	Analytical friction force compensation of flow curves out of layer compression tests with the pin extrusion test. International Journal of Material Forming, 2021, 14, 663-676.	2.0	7
15	On the hot deformation behavior of Ti-6Al-4V made by additive manufacturing. Journal of Materials Processing Technology, 2021, 288, 116840.	6.3	54
16	Manufacturing of tailored blanks by orbital forming with a two-sided material thickening. Journal of Materials Processing Technology, 2021, 287, 116491.	6.3	8
17	Influence of the forming induced hardening on the wear behavior of aluminum gears within a metal-plastic material pairing and targeted adaptation. Procedia Manufacturing, 2021, 53, 189-196.	1.9	3
18	Self-Piercing Riveting Using Rivets Made of Stainless Steel with High Strain Hardening. Minerals, Metals and Materials Series, 2021, , 1495-1506.	0.4	4

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19	Analysis of the Thermomechanical Flow Behavior of Carburized Sheet Metal in Hot Stamping. Minerals, Metals and Materials Series, 2021, , 789-800.	0.4	1
20	Adapted tool design for the cold forging of gears from non-ferrous and light metals. International Journal of Advanced Manufacturing Technology, 2021, 113, 1833-1848.	3.0	7
21	Forming of metal-based composite parts. CIRP Annals - Manufacturing Technology, 2021, 70, 567-588.	3.6	14
22	Strategies for residual stress adjustment in bulk metal forming. Archive of Applied Mechanics, 2021, 91, 3557-3577.	2.2	8
23	Numerical and experimental investigations for distortion-reduced laser heat treatment of aluminum. Production Engineering, 2021, 15, 479-488.	2.3	2
24	Experimental Study on Joining by Forming of HCT590X + Z and EN-AW 6014 Sheets Using Cold Extruded Pin Structures. Journal of Manufacturing and Materials Processing, 2021, 5, 25.	2.2	9
25	Fringe Projection Profilometry in Production Metrology: A Multi-Scale Comparison in Sheet-Bulk Metal Forming. Sensors, 2021, 21, 2389.	3.8	6
26	Investigation of the Microstructural Evolution during Hot Stamping of a Carburized Complex Phase Steel by Laser-Ultrasonics. Materials, 2021, 14, 1836.	2.9	3
27	Influence of Stress States on Forming Hybrid Parts with Sheet Metal and Additively Manufactured Element. Journal of Materials Engineering and Performance, 2021, 30, 5159-5169.	2.5	4
28	Fiber Orientation Mechanism of Continuous Fiber Reinforced Thermoplastics Hybrid Parts Joined with Metallic Pins. Applied Composite Materials, 2021, 28, 951-972.	2.5	15
29	Functional Analysis of Components Manufactured by a Sheet-Bulk Metal Forming Process. Journal of Manufacturing and Materials Processing, 2021, 5, 49.	2.2	2
30	An innovative process combination of additive manufacturing and sheet bulk metal forming for manufacturing a functional hybrid part. Journal of Materials Processing Technology, 2021, 291, 117032.	6.3	24
31	Systematic exploration of the L-PBF processing behavior and resulting properties of $\hat{\text{i}}^2$ -stabilized Ti-alloys prepared by in-situ alloy formation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 818, 141374.	5.6	6
32	Comparison of different forming methods on deep drawing and springback behavior of high-strength aluminum alloys. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012048.	0.6	2
33	Potential of shear-clinching technology for joining of three sheets. Journal of Advanced Joining Processes, 2021, 3, 100043.	2.7	21
34	Data-driven analysis of cold-formed pin structure characteristics in the context of versatile joining processes. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012077.	0.6	2
35	Bending behavior of a hot stamped complex phase steel with tailored properties by local carburization. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012011.	0.6	0
36	Component residual stress control in forward rod extrusion by material flow and tribology experiments and modeling. Forschung Im Ingenieurwesen/Engineering Research, 2021, 85, 733-744.	1.6	2

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37	Investigation of the thermal and tribological performance of localized laser dispersed tool surfaces under hot stamping conditions. <i>Wear</i> , 2021, 476, 203694.	3.1	5
38	Contact pressure-dependent friction characterization by using a single sheet metal compression test. <i>Wear</i> , 2021, 476, 203679.	3.1	20
39	Additive Fertigung eines hybriden PlanetentrÄgers. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2021, 116, 478-482.	0.3	0
40	Influence of a local short-term heat treatment on the formability of orbital formed functional components. <i>Procedia Manufacturing</i> , 2021, 53, 72-79.	1.9	5
41	Influence of Ultrasonic Assistance on the Forming Limits of Steel. <i>Minerals, Metals and Materials Series</i> , 2021, , 1281-1290.	0.4	3
42	Investigations of batch fluctuation regarding tribological conditions in series production of car body parts. <i>International Journal of Material Forming</i> , 2021, 14, 871-884.	2.0	0
43	Influence of Material Delivery Condition on Residual Stresses and Part Properties During Forward Rod Extrusion. <i>Minerals, Metals and Materials Series</i> , 2021, , 2277-2288.	0.4	0
44	Analysis of Work Hardening and Tribological Changes After a Gap Controlled Drawbead Passage. <i>Minerals, Metals and Materials Series</i> , 2021, , 1537-1548.	0.4	1
45	Modelling of Hybrid Parts Made of Ti-6Al-4V Sheets and Additive Manufactured Structures. <i>Lecture Notes in Production Engineering</i> , 2021, , 13-22.	0.4	2
46	Analysis of stress pins for the local prestressing of cold forging tools. <i>Production Engineering</i> , 2021, 15, 119-131.	2.3	2
47	Investigation of the Phase Transformation in Hot Stamping Processes with Regard to the Testing Facility. <i>Lecture Notes in Production Engineering</i> , 2021, , 76-85.	0.4	0
48	Forming of Complex Functional Elements on Sheet Metal. <i>Lecture Notes in Production Engineering</i> , 2021, , 30-52.	0.4	0
49	Analysis of the Influence of Surface Modifications on the Fatigue Behavior of Hot Work Tool Steel Components. <i>Materials</i> , 2021, 14, 7324.	2.9	6
50	Forming of Components with Microgearings from Coil Materialâ€”Numerical Modeling of the Process Chain and Experimental Validation. <i>Micromachines</i> , 2021, 12, 1456.	2.9	3
51	Investigation of Size Effects in Multi-Stage Cold Forming of Metallic Micro Parts from Sheet Metal. <i>Micromachines</i> , 2021, 12, 1561.	2.9	2
52	Functional optimization of hot-stamped components by local carburization. <i>International Journal of Lightweight Materials and Manufacture</i> , 2020, 3, 43-54.	2.1	8
53	Research of adapted tool Design in Cold Forging of gears. <i>International Journal of Material Forming</i> , 2020, 13, 873-883.	2.0	2
54	Influence of component design on extrusion processes in sheet-bulk metal forming. <i>International Journal of Material Forming</i> , 2020, 13, 981-992.	2.0	3

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55	Properties of Tool Steels for Application in Hot Stamping. Steel Research International, 2020, 91, 1900422.	1.8	10
56	Characterization of tribological conditions within direct hot stamping. Journal of Materials Processing Technology, 2020, 278, 116535.	6.3	6
57	Investigations on TaC Localized Dispersed X38CrMoV5-3 Surfaces with Regard to the Manufacturing of Wear Resistant Protruded Surface Textures. Lasers in Manufacturing and Materials Processing, 2020, 7, 38-58.	2.2	0
58	Modeling material behavior of AA5083 aluminum alloy sheet using biaxial tensile tests and its application in numerical simulation of deep drawing. International Journal of Advanced Manufacturing Technology, 2020, 106, 1133-1148.	3.0	6
59	Microstructural evolution and geometrical properties of TiB ₂ metal matrix composite protrusions on hot work tool steel surfaces manufactured by laser implantation. International Journal of Advanced Manufacturing Technology, 2020, 106, 481-501.	3.0	12
60	Investigation on extrusion processes in sheet-bulk metal forming from coil. CIRP Journal of Manufacturing Science and Technology, 2020, 31, 561-574.	4.5	3
61	Experimental investigation of distortion behavior of laser heat treated blanks. Procedia CIRP, 2020, 94, 557-560.	1.9	2
62	Processing of 316L hybrid parts consisting of sheet metal and additively manufactured element by Powder Bed Fusion using a laser beam. Procedia CIRP, 2020, 94, 35-40.	1.9	9
63	Influence of a drawbead passage in deep drawing processes on surface values and the tribological system. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012008.	0.6	2
64	Localized Laser Dispersing of Titanium-Based Particles for Improving the Tribological Performance of Hot Stamping Tools. Journal of Manufacturing and Materials Processing, 2020, 4, 68.	2.2	3
65	Improvement of a rivet geometry for the self-piercing riveting of high-strength steel and multi-material joints. Production Engineering, 2020, 14, 417-423.	2.3	24
66	Additive Manufacturing of Tailored Blank for Sheet-Bulk Metal Forming Processes. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012034.	0.6	7
67	Localized dispersing of TiB ₂ and TiN particles via pulsed laser radiation for improving the tribological performance of hot stamping tools. Procedia CIRP, 2020, 94, 901-904.	1.9	0
68	Investigation of thermal effects during ultrasonic-assisted upsetting. Procedia Manufacturing, 2020, 50, 220-225.	1.9	3
69	Process design for the forming of semi-tubular self-piercing rivets made of high nitrogen steel. Procedia Manufacturing, 2020, 50, 280-285.	1.9	9
70	Characterization of kinematic hardening with a hydraulic bulge test. Procedia Manufacturing, 2020, 50, 696-701.	1.9	0
71	Influence of Tool Wear on the Load-Bearing Capacity of Shear-Clinched Joints. Defect and Diffusion Forum, 2020, 404, 3-10.	0.4	0
72	Investigation on the Wear Behavior of Coatings for Lubricant-Free Deep Drawing Processes with a Novel Application-Oriented Test Rig. Defect and Diffusion Forum, 2020, 404, 11-18.	0.4	0

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73	Test Method for Friction Characterization of Rivets. Defect and Diffusion Forum, 2020, 404, 132-137.	0.4	3
74	Investigation of the Springback Behaviour of High-strength Aluminium Alloys Based on Cross Profile Deep Drawing Tests. Procedia Manufacturing, 2020, 47, 1223-1229.	1.9	9
75	Data acquisition and control at the edge: a hardware/software-reconfigurable approach. Production Engineering, 2020, 14, 365-371.	2.3	3
76	Measuring procedures for surface evaluation of additively manufactured powder bed-based polymer and metal parts. Measurement Science and Technology, 2020, 31, 095202.	2.6	17
77	Temporal and Spatial Detection of the Onset of Local Necking and Assessment of its Growth Behavior. Materials, 2020, 13, 2427.	2.9	1
78	Enhancement of the Forming Limits for Orbital Formed Tailored Blanks by Local Short-term Heat Treatment. Procedia Manufacturing, 2020, 47, 1197-1202.	1.9	4
79	Extension of the forming limits of extrusion processes in sheet-bulk metal forming for production of minute functional elements. Manufacturing Review, 2020, 7, 9.	1.5	4
80	Fundamental analysis For the application of hybrid semi-finished products in sheet-bulk metal forming. Journal of Materials Processing Technology, 2020, 283, 116709.	6.3	3
81	Experimental analysis of the forming behavior of ash wood veneer with nonwoven backings. European Journal of Wood and Wood Products, 2020, 78, 321-331.	2.9	14
82	Influence of the properties of the joining partners on the load-bearing capacity of shear-clinched joints. Journal of Materials Processing Technology, 2020, 283, 116696.	6.3	12
83	Potential of Joining Dissimilar Materials by Cold Formed Pin-Structures. Journal of Materials Processing Technology, 2020, 283, 116697.	6.3	11
84	On the influence of TiB ₂ , TiC, and TiN hard particles on the microstructure of localized laser dispersed AISI D2 tool steel surfaces. Journal of Laser Applications, 2020, 32, 022028.	1.7	3
85	Measures for controlling the material flow when extruding sheet-bulk metal forming parts from coil. Manufacturing Review, 2020, 7, 36.	1.5	0
86	Determination of the properties of semi-finished parts in blanking processes. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012009.	0.6	2
87	Geometric and corrosive influences on load-bearing capacity of multi-element shear-clinching specimen. AIP Conference Proceedings, 2019, , .	0.4	2
88	Heating effect on the forming behaviour of high nitrogen steel in bulk forming. AIP Conference Proceedings, 2019, , .	0.4	1
89	On the inverse identification of Lankford coefficients using geometrical changes under quasi-biaxial loading. International Journal of Material Forming, 2019, 12, 1053-1061.	2.0	4
90	Residual effects of ultrasonic-assisted compression testing on pure copper. AIP Conference Proceedings, 2019, , .	0.4	2

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91	Investigation on the tribological behavior of tool-sided tailored surfaces for controlling the material flow in sheet-bulk metal forming. AIP Conference Proceedings, 2019, , .	0.4	4
92	Comparison of extrusion processes in sheet-bulk metal forming for production of filigree functional elements. CIRP Journal of Manufacturing Science and Technology, 2019, 26, 41-49.	4.5	8
93	Investigation of the tool wear behaviour in shear-clinching processes during the running-in phase. AIP Conference Proceedings, 2019, , .	0.4	1
94	Mechanical joining without auxiliary element by cold formed pins for multi-material-systems. AIP Conference Proceedings, 2019, , .	0.4	18
95	A Methodology for the Application of Virtual Evaluation Methods within the Design Process of Cold Forged Steel Pinions. Proceedings of the Design Society International Conference on Engineering Design, 2019, 1, 3451-3460.	0.6	5
96	New Approach on the Allocation of Wear Allowances - A Case Study. Proceedings of the Design Society International Conference on Engineering Design, 2019, 1, 3511-3520.	0.6	0
97	Fundamental mechanisms and their interactions in shear-clinching technology and investigation of the process robustness. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 987-1005.	0.9	3
98	Study of the mechanical properties of sheet metals drawn through drawbeads. Manufacturing Review, 2019, 6, 14.	1.5	4
99	Investigation of diffusion behavior of carburized sheet metal in hot stamping. Manufacturing Review, 2019, 6, 16.	1.5	0
100	A Concept for Process-Oriented Interdisciplinary Tolerance Management Considering Production-Specific Deviations. Proceedings of the Design Society International Conference on Engineering Design, 2019, 1, 3441-3450.	0.6	6
101	4.0 in metal forming – questions and challenges. Procedia CIRP, 2019, 79, 649-654.	1.9	12
102	Investigation of different surface treatment parameters in the context of roll bonding processes. Procedia Manufacturing, 2019, 29, 600-607.	1.9	5
103	Experimental investigation of tool-sided surface modifications for dry deep drawing processes at the tool radii area. Procedia Manufacturing, 2019, 29, 201-208.	1.9	4
104	Analysing resistance element welding with upset auxiliary joining steel-elements under shear load. Procedia Manufacturing, 2019, 29, 329-336.	1.9	8
105	Cross-profile deep drawing of magnesium alloy AZ31 sheet metal for springback analysis under various temperatures. Procedia Manufacturing, 2019, 29, 406-411.	1.9	5
106	Failure behavior of different sheet metals after passing a drawbead. Procedia Manufacturing, 2019, 34, 125-132.	1.9	6
107	Flexible rolling of rotational symmetric tailored blanks with a two-sided thickness profile. Procedia Manufacturing, 2019, 34, 139-146.	1.9	1
108	Manufacturing and Characterization of Multilayered 7000-Series Aluminum with Improved Corrosion Behavior Processed via Accumulative Roll Bonding. Materials Today: Proceedings, 2019, 10, 368-375.	1.8	3

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109	Analysis of the formation of gap-based leakages in polymer-metal electronic systems with labyrinth seals. <i>Journal of Polymer Engineering</i> , 2019, 39, 573-586.	1.4	3
110	Determination of Forming Limits in Sheet Metal Forming Using Deep Learning. <i>Materials</i> , 2019, 12, 1051.	2.9	12
111	Manufacturing of advanced smart tooling for metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2019, 68, 605-628.	3.6	78
112	Influence of tribological conditions on application relevant component properties of cold forged gears. <i>Production Engineering</i> , 2019, 13, 579-588.	2.3	6
113	Investigation on blasted tool surfaces as a measure for material flow control in sheet-bulk metal forming. <i>Manufacturing Review</i> , 2019, 6, 10.	1.5	5
114	Customized exposure strategies for manufacturing hybrid parts by combining laser beam melting and sheet metal forming. <i>Journal of Laser Applications</i> , 2019, 31, .	1.7	18
115	Investigation on basic friction and wear mechanisms within hot stamping considering the influence of tool steel and hardness. <i>Wear</i> , 2019, 426-427, 378-389.	3.1	25
116	Investigations on residual stress generation in full-forward-extrusion. <i>Production Engineering</i> , 2019, 13, 169.	2.3	5
117	Accuracy of Conventional Finite Element Models in Bulk-Forming of Micropins From Sheet Metal. <i>Journal of Micro and Nano-Manufacturing</i> , 2019, 7, .	0.7	5
118	Researching of commonalities and differences in cold forging of spur and helical gears. <i>Production Engineering</i> , 2019, 13, 391-397.	2.3	6
119	Blockchain for forming technology – tamper-proof exchange of production data. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 651, 012046.	0.6	5
120	Influence of varying sheet material properties on dry deep drawing process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 651, 012012.	0.6	3
121	Augmented Reality for Forming Technology – Visualisation of Simulation Results and Component Measurement. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 651, 012045.	0.6	0
122	Numerical simulation of hydraulic bulging using uniaxial and biaxial flow curves and different yield criteria. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 651, 012038.	0.6	0
123	Basics for inline measurement of tribological conditions in series production of car body parts. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 651, 012050.	0.6	0
124	Friction reduction in EHL contacts by surface microtexturing – tribological performance, manufacturing and tailored design. <i>Industrial Lubrication and Tribology</i> , 2019, 71, 986-990.	1.3	13
125	Adaption of tool surface for sheet-bulk metal forming by means of pressurized air wet abrasive jet machining. <i>Production Engineering</i> , 2019, 13, 71-77.	2.3	4
126	Application of Tailor Heat Treated Blanks technology in a joining by forming process. <i>Journal of Materials Processing Technology</i> , 2019, 264, 259-272.	6.3	26

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127	Control of the material flow in sheet-bulk metal forming using modifications of the tool surface. International Journal of Material Forming, 2019, 12, 17-26.	2.0	17
128	Influence of tribological conditions on cold forging of gears. Production Engineering, 2018, 12, 367-375.	2.3	5
129	Analysis of the bending effects and the biaxial pre-straining in sheet metal stretch forming processes for the determination of the forming limits. International Journal of Mechanical Sciences, 2018, 138-139, 295-309.	6.7	19
130	Influence of ultrasonic vibration on the shear formability of metallic materials. CIRP Annals - Manufacturing Technology, 2018, 67, 277-280.	3.6	9
131	Investigation of tribological behaviour of a-C:H coatings for dry deep drawing of aluminium alloys. Tribology International, 2018, 118, 484-490.	5.9	19
132	A Round Robin study for selective laser sintering of polymers: Back tracing of the pore morphology to the process parameters. Journal of Materials Processing Technology, 2018, 252, 537-545.	6.3	36
133	Investigation of diffusion behavior of carburized sheet metal in hot stamping. MATEC Web of Conferences, 2018, 190, 08004.	0.2	1
134	Metallographic analysis of failure mechanisms during Nakajima tests for the evaluation of forming limits on a dual-phase steel. IOP Conference Series: Materials Science and Engineering, 2018, 418, 012047.	0.6	4
135	Improvement of the drawing ratio of the anisotropic material behaviour under near plane strain conditions for DP600 characterized in elliptic hydraulic bulge test. Journal of Physics: Conference Series, 2018, 1063, 012161.	0.4	4
136	Bulk Metal Forming of Additively Manufactured Elements. MATEC Web of Conferences, 2018, 190, 03002.	0.2	5
137	In Situ Formation of a Metastable β -Ti Alloy by Laser Powder Bed Fusion (L-PBF) of Vanadium and Iron Modified Ti-6Al-4V. Metals, 2018, 8, 1067.	2.3	18
138	Investigation of Heat Treatment Strategies for Additively-Manufactured Tools of X37CrMoV5-1. Metals, 2018, 8, 854.	2.3	27
139	Numerical modelling approach for the temperature dependent forming behaviour of Ti-6Al-4V. MATEC Web of Conferences, 2018, 190, 12004.	0.2	0
140	Influence of a local laser heat treatment on the bending properties of aluminium extrusion profiles. Procedia CIRP, 2018, 74, 780-784.	1.9	4
141	Influence of a bending operation on the bonding strength for hybrid parts made of Ti-6Al-4V. Procedia CIRP, 2018, 74, 290-294.	1.9	12
142	Analysis of combined extrusion micro coining process to manufacture microstructured tappets. Procedia Manufacturing, 2018, 15, 272-279.	1.9	3
143	Investigation of the influence of tool-sided parameters on deformation and occurring tool loads in shear-clinching processes. Procedia Manufacturing, 2018, 15, 1346-1353.	1.9	9
144	Improvement of deep drawability of ultra-fine grained 6000 series aluminum alloy by tailored heat treatment. Procedia Manufacturing, 2018, 15, 976-983.	1.9	10

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145	Adaption of tribological behavior of a-C:H coatings for application in dry deep drawing. MATEC Web of Conferences, 2018, 190, 14002.	0.2	4
146	Effect on the mechanical properties of sheet metals after the use of drawbeads in deep drawing. MATEC Web of Conferences, 2018, 190, 05001.	0.2	3
147	Analysis of Forming Limits in Sheet Metal Forming with Pattern Recognition Methods. Part 2: Unsupervised Methodology and Application. Materials, 2018, 11, 1892.	2.9	7
148	Material flow control in sheet-bulk metal forming processes using blasted tool surfaces. MATEC Web of Conferences, 2018, 190, 13003.	0.2	1
149	Analysis of Forming Limits in Sheet Metal Forming with Pattern Recognition Methods. Part 1: Characterization of Onset of Necking and Expert Evaluation. Materials, 2018, 11, 1495.	2.9	10
150	Orbital forming of tailored blanks with two-sided local material thickening. International Journal of Advanced Manufacturing Technology, 2018, 97, 3469-3478.	3.0	7
151	Increasing the Adhesive Wear Resistance of Hot Stamping Tools by Modifying the Surfaces. Key Engineering Materials, 2018, 767, 61-68.	0.4	0
152	Investigation of the tribological behaviour of microstructures for controlling the material flow in sheet-bulk metal forming. CIRP Journal of Manufacturing Science and Technology, 2018, 22, 66-75.	4.5	5
153	Improvement of Numerical Modelling Considering Plane Strain Material Characterization with an Elliptic Hydraulic Bulge Test. Journal of Manufacturing and Materials Processing, 2018, 2, 6.	2.2	10
154	Tribological Behavior of Carbon Based Coatings Adapted to Lubricant-Free Forming Conditions. International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 361-367.	4.9	10
155	Investigation of fatigue strength of tool steels in sheet-bulk metal forming. AIP Conference Proceedings, 2018, , .	0.4	4
156	Identification of a process window for tailored carburization of sheet metals in hot stamping. AIP Conference Proceedings, 2018, , .	0.4	1
157	Influence of the coating process on the tribological conditions during cold forging with a MoS ₂ based lubricant. AIP Conference Proceedings, 2018, , .	0.4	2
158	Verification of the Accuracy of FE-Models in Bulk-Forming of Micropins from Sheet Metal. , 2018, , .		1
159	Effect of temperature and punch speed on forming limit strains of AA5182 alloy in warm forming and improvement in failure prediction in finite element analysis. Journal of Strain Analysis for Engineering Design, 2017, 52, 258-273.	1.8	12
160	Experimental and Numerical Studies on the Forming Behavior of High Strain Al-Mg-Si(-Cu) Sheet Alloys. Procedia Engineering, 2017, 183, 95-100.	1.2	4
161	Hot stamping of ultra-high strength steel parts. CIRP Annals - Manufacturing Technology, 2017, 66, 755-777.	3.6	256
162	Experimental investigations of processing the high carbon cold-work tool steel 1.2358 by laser metal deposition for the additive manufacturing of cold forging tools. Journal of Laser Applications, 2017, 29, .	1.7	26

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163	Modification of tribological conditions for influencing the material flow in bulk forming of microparts from sheet metal. AIP Conference Proceedings, 2017, , .	0.4	2
164	Fluid elements in machine tools. CIRP Annals - Manufacturing Technology, 2017, 66, 611-634.	3.6	30
165	Process Simulation Model of a Flexible Clamping Technology for Sheet Metal Parts. Procedia Engineering, 2017, 183, 303-308.	1.2	4
166	Designing, Manufacturing and Processing of Tailored Blanks in a Sheet-bulk Metal Forming Process. Procedia Manufacturing, 2017, 10, 286-297.	1.9	10
167	Analysis of the Lankford coefficient evolution at different strain rates for AA6016-T4, DP800 and DC06. AIP Conference Proceedings, 2017, , .	0.4	1
168	Experimental study on the warm forming and quenching behavior for hot stamping of high-strength aluminum alloys. Journal of Physics: Conference Series, 2017, 896, 012055.	0.4	7
169	Data-based control of a multi-step forming process. Journal of Physics: Conference Series, 2017, 896, 012037.	0.4	2
170	Experimental Investigation and Numerical Modeling of the Bond Shear Strength of Multi-layered 6000 Series Aluminum Alloys. Procedia Engineering, 2017, 183, 283-290.	1.2	3
171	Laser based additive manufacturing in industry and academia. CIRP Annals - Manufacturing Technology, 2017, 66, 561-583.	3.6	431
172	A new approach for the determination of the linear elastic modulus from uniaxial tensile tests of sheet metals. Journal of Materials Processing Technology, 2017, 241, 64-72.	6.3	17
173	A Round Robin study for Selective Laser Sintering of polyamide 12: Microstructural origin of the mechanical properties. Optics and Laser Technology, 2017, 89, 31-40.	4.6	58
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