

# Marion Merklein

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

343  
papers

4,768  
citations

30  
h-index

61  
g-index

352  
ext. papers

5,552  
ext. citations

1.9  
avg, IF

6.14  
L-index

#	Paper	IF	Citations
343	Alloy design and adaptation for additive manufacture. <i>Journal of Materials Processing Technology</i> , <b>2022</b> , 299, 117358	5.3	10
342	Joining by forming technologies: current solutions and future trends. <i>International Journal of Material Forming</i> , <b>2022</b> , 15, 1	2	3
341	Influence of Metal Gear Tooth Geometry on Load and Wear within Metal-Polymer Gear Pairs. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 270	2.6	
340	Review on mechanical joining by plastic deformation. <i>Journal of Advanced Joining Processes</i> , <b>2022</b> , 1001131	13.1	7
339	Joining of CFRT/Steel Hybrid Parts via Direct Pressing of Cold Formed Non-Rotational Symmetric Pin Structures. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4962	2.6	1
338	Analysis of Distributed-Ledger-Technology for the Exchange of Design, Production and Simulation Data in Roll Forming. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2022</b> , 1238, 012070	0.4	
337	Investigation of the Phase Transformation in Hot Stamping Processes with Regard to the Testing Facility. <i>Lecture Notes in Production Engineering</i> , <b>2021</b> , 76-85	0	
336	Constitutive Friction Law for the Description and Optimization of Tailored Surfaces. <i>Lecture Notes in Production Engineering</i> , <b>2021</b> , 307-333	0	
335	Forming of Complex Functional Elements on Sheet Metal. <i>Lecture Notes in Production Engineering</i> , <b>2021</b> , 30-52	0	
334	Tool Sided Surface Modifications in the Industrial Environment. <i>Lecture Notes in Production Engineering</i> , <b>2021</b> , 477-492	0	
333	Analysis of the Influence of Surface Modifications on the Fatigue Behavior of Hot Work Tool Steel Components. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
332	Analysis of stress pins for the local prestressing of cold forging tools. <i>Production Engineering</i> , <b>2021</b> , 15, 119-131	1.9	0
331	Process Combination for the Manufacturing of Toothed, Thin-Walled Functional Elements by Using Process Adapted Semi-finished Products. <i>Lecture Notes in Production Engineering</i> , <b>2021</b> , 1-29	0	1
330	Modelling of Hybrid Parts Made of Ti-6Al-4V Sheets and Additive Manufactured Structures. <i>Lecture Notes in Production Engineering</i> , <b>2021</b> , 13-22	0	1
329	Numerical and experimental investigations for distortion-reduced laser heat treatment of aluminum. <i>Production Engineering</i> , <b>2021</b> , 15, 479-488	1.9	0
328	Experimental Study on Joining by Forming of HCT590X + Z and EN-AW 6014 Sheets Using Cold Extruded Pin Structures. <i>Journal of Manufacturing and Materials Processing</i> , <b>2021</b> , 5, 25	2.2	5
327	Fringe Projection Profilometry in Production Metrology: A Multi-Scale Comparison in Sheet-Bulk Metal Forming. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1

326	Influence of Stress States on Forming Hybrid Parts with Sheet Metal and Additively Manufactured Element. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 5159-5169	1.6	0
325	Fiber Orientation Mechanism of Continuous Fiber Reinforced Thermoplastics Hybrid Parts Joined with Metallic Pins. <i>Applied Composite Materials</i> , <b>2021</b> , 28, 951-972	2	8
324	Functional Analysis of Components Manufactured by a Sheet-Bulk Metal Forming Process. <i>Journal of Manufacturing and Materials Processing</i> , <b>2021</b> , 5, 49	2.2	
323	An innovative process combination of additive manufacturing and sheet bulk metal forming for manufacturing a functional hybrid part. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 291, 117032	5.3	9
322	Systematic exploration of the L-PBF processing behavior and resulting properties of $\beta$ -stabilized Ti-alloys prepared by in-situ alloy formation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 818, 141374	5.3	3
321	Comparison of different forming methods on deep drawing and springback behavior of high-strength aluminum alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1157, 012048	0.4	0
320	Potential of shear-clinching technology for joining of three sheets. <i>Journal of Advanced Joining Processes</i> , <b>2021</b> , 3, 100043	2.1	10
319	Data-driven analysis of cold-formed pin structure characteristics in the context of versatile joining processes. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1157, 012077	0.4	0
318	Bending behavior of a hot stamped complex phase steel with tailored properties by local carburization. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1157, 012011	0.4	
317	Analytical friction force compensation of flow curves out of layer compression tests with the pin extrusion test. <i>International Journal of Material Forming</i> , <b>2021</b> , 14, 663-676	2	1
316	On the hot deformation behavior of Ti-6Al-4V made by additive manufacturing. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 288, 116840	5.3	21
315	Manufacturing of tailored blanks by orbital forming with a two-sided material thickening. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 287, 116491	5.3	5
314	Influence of the forming induced hardening on the wear behavior of aluminum gears within a metal-plastic material pairing and targeted adaption. <i>Procedia Manufacturing</i> , <b>2021</b> , 53, 189-196	1.5	0
313	Self-Piercing Riveting Using Rivets Made of Stainless Steel with High Strain Hardening. <i>Minerals, Metals and Materials Series</i> , <b>2021</b> , 1495-1506	0.3	1
312	Analysis of the Thermomechanical Flow Behavior of Carburized Sheet Metal in Hot Stamping. <i>Minerals, Metals and Materials Series</i> , <b>2021</b> , 789-800	0.3	
311	Adapted tool design for the cold forging of gears from non-ferrous and light metals. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 113, 1833-1848	3.2	3
310	Forming of metal-based composite parts. <i>CIRP Annals - Manufacturing Technology</i> , <b>2021</b> , 70, 567-588	4.9	5
309	Strategies for residual stress adjustment in bulk metal forming. <i>Archive of Applied Mechanics</i> , <b>2021</b> , 91, 3557-3577	2.2	4

308	Component residual stress control in forward rod extrusion by material flow and tribology Experiments and modeling. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , <b>2021</b> , 85, 733	0.8	
307	Investigation of the thermal and tribological performance of localized laser dispersed tool surfaces under hot stamping conditions. <i>Wear</i> , <b>2021</b> , 476, 203694	3.5	2
306	Contact pressure-dependent friction characterization by using a single sheet metal compression test. <i>Wear</i> , <b>2021</b> , 476, 203679	3.5	0
305	Additive Fertigung eines hybriden Planetenträgers. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2021</b> , 116, 478-482	0.5	
304	Influence of a local short-term heat treatment on the formability of orbital formed functional components. <i>Procedia Manufacturing</i> , <b>2021</b> , 53, 72-79	1.5	0
303	Influence of Ultrasonic Assistance on the Forming Limits of Steel. <i>Minerals, Metals and Materials Series</i> , <b>2021</b> , 1281-1290	0.3	1
302	Investigations of batch fluctuation regarding tribological conditions in series production of car body parts. <i>International Journal of Material Forming</i> , <b>2021</b> , 14, 871-884	2	
301	Influence of Material Delivery Condition on Residual Stresses and Part Properties During Forward Rod Extrusion. <i>Minerals, Metals and Materials Series</i> , <b>2021</b> , 2277-2288	0.3	
300	Analysis of Work Hardening and Tribological Changes After a Gap Controlled Drawbead Passage. <i>Minerals, Metals and Materials Series</i> , <b>2021</b> , 1537-1548	0.3	1
299	Additive Manufacturing of Tailored Blank for Sheet-Bulk Metal Forming Processes. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 967, 012034	0.4	6
298	Localized dispersing of TiB <sub>2</sub> and TiN particles via pulsed laser radiation for improving the tribological performance of hot stamping tools. <i>Procedia CIRP</i> , <b>2020</b> , 94, 901-904	1.8	
297	Investigation of thermal effects during ultrasonic-assisted upsetting. <i>Procedia Manufacturing</i> , <b>2020</b> , 50, 220-225	1.5	1
296	Process design for the forming of semi-tubular self-piercing rivets made of high nitrogen steel. <i>Procedia Manufacturing</i> , <b>2020</b> , 50, 280-285	1.5	4
295	Characterization of kinematic hardening with a hydraulic bulge test. <i>Procedia Manufacturing</i> , <b>2020</b> , 50, 696-701	1.5	
294	Analysis of the Modification of Tool Surfaces by Abrasive Blasting and Laser Polishing. <i>Defect and Diffusion Forum</i> , <b>2020</b> , 404, 124-131	0.7	1
293	Influence of Tool Wear on the Load-Bearing Capacity of Shear-Clinched Joints. <i>Defect and Diffusion Forum</i> , <b>2020</b> , 404, 3-10	0.7	
292	Investigation on the Wear Behavior of Coatings for Lubricant-Free Deep Drawing Processes with a Novel Application-Oriented Test Rig. <i>Defect and Diffusion Forum</i> , <b>2020</b> , 404, 11-18	0.7	
291	Test Method for Friction Characterization of Rivets. <i>Defect and Diffusion Forum</i> , <b>2020</b> , 404, 132-137	0.7	2

290	Investigation of the Springback Behaviour of High-strength Aluminium Alloys Based on Cross Profile Deep Drawing Tests. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 1223-1229	1.5	5
289	Data acquisition and control at the edge: a hardware/software-reconfigurable approach. <i>Production Engineering</i> , <b>2020</b> , 14, 365-371	1.9	3
288	Measuring procedures for surface evaluation of additively manufactured powder bed-based polymer and metal parts. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 095202	2	6
287	Enhancement of the Forming Limits for Orbital Formed Tailored Blanks by Local Short-term Heat Treatment. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 1197-1202	1.5	3
286	Extension of the forming limits of extrusion processes in sheet-bulk metal forming for production of minute functional elements. <i>Manufacturing Review</i> , <b>2020</b> , 7, 9	1.4	3
285	Fundamental analysis For the application of hybrid semi-finished products in sheet-bulk metal forming. <i>Journal of Materials Processing Technology</i> , <b>2020</b> , 283, 116709	5.3	3
284	Experimental analysis of the forming behavior of ash wood veneer with nonwoven backings. <i>European Journal of Wood and Wood Products</i> , <b>2020</b> , 78, 321-331	2.1	11
283	Influence of the properties of the joining partners on the load-bearing capacity of shear-clinched joints. <i>Journal of Materials Processing Technology</i> , <b>2020</b> , 283, 116696	5.3	8
282	Potential of Joining Dissimilar Materials by Cold Formed Pin-Structures. <i>Journal of Materials Processing Technology</i> , <b>2020</b> , 283, 116697	5.3	7
281	Determination of the properties of semi-finished parts in blanking processes. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 967, 012009	0.4	1
280	On the influence of TiB <sub>2</sub> , TiC, and TiN hard particles on the microstructure of localized laser dispersed AISI D2 tool steel surfaces. <i>Journal of Laser Applications</i> , <b>2020</b> , 32, 022028	2.1	2
279	Measures for controlling the material flow when extruding sheet-bulk metal forming parts from coil. <i>Manufacturing Review</i> , <b>2020</b> , 7, 36	1.4	
278	Research of adapted tool Design in Cold Forging of gears. <i>International Journal of Material Forming</i> , <b>2020</b> , 13, 873-883	2	1
277	Influence of component design on extrusion processes in sheet-bulk metal forming. <i>International Journal of Material Forming</i> , <b>2020</b> , 13, 981-992	2	3
276	Properties of Tool Steels for Application in Hot Stamping. <i>Steel Research International</i> , <b>2020</b> , 91, 1900422.6		6
275	Characterization of tribological conditions within direct hot stamping. <i>Journal of Materials Processing Technology</i> , <b>2020</b> , 278, 116535	5.3	2
274	Investigations on TaC Localized Dispersed X38CrMoV5-3 Surfaces with Regard to the Manufacturing of Wear Resistant Protruded Surface Textures. <i>Lasers in Manufacturing and Materials Processing</i> , <b>2020</b> , 7, 38-58	2.1	
273	Modeling material behavior of AA5083 aluminum alloy sheet using biaxial tensile tests and its application in numerical simulation of deep drawing. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 106, 1133-1148	3.2	5

272	Microstructural evolution and geometrical properties of TiB <sub>2</sub> metal matrix composite protrusions on hot work tool steel surfaces manufactured by laser implantation. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 106, 481-501	3.2	7
271	Investigation on extrusion processes in sheet-bulk metal forming from coil. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2020</b> , 31, 561-574	3.4	1
270	Experimental investigation of distortion behavior of laser heat treated blanks. <i>Procedia CIRP</i> , <b>2020</b> , 94, 557-560	1.8	0
269	Processing of 316L hybrid parts consisting of sheet metal and additively manufactured element by Powder Bed Fusion using a laser beam. <i>Procedia CIRP</i> , <b>2020</b> , 94, 35-40	1.8	6
268	Influence of a drawbead passage in deep drawing processes on surface values and the tribological system. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 967, 012008	0.4	1
267	Localized Laser Dispersing of Titanium-Based Particles for Improving the Tribological Performance of Hot Stamping Tools. <i>Journal of Manufacturing and Materials Processing</i> , <b>2020</b> , 4, 68	2.2	3
266	Improvement of a rivet geometry for the self-piercing riveting of high-strength steel and multi-material joints. <i>Production Engineering</i> , <b>2020</b> , 14, 417-423	1.9	13
265	Functional optimization of hot-stamped components by local carburization. <i>International Journal of Lightweight Materials and Manufacture</i> , <b>2020</b> , 3, 43-54	2.2	5
264	Study of the mechanical properties of sheet metals drawn through drawbeads. <i>Manufacturing Review</i> , <b>2019</b> , 6, 14	1.4	4
263	Investigation of diffusion behavior of carburized sheet metal in hot stamping. <i>Manufacturing Review</i> , <b>2019</b> , 6, 16	1.4	
262	A Concept for Process-Oriented Interdisciplinary Tolerance Management Considering Production-Specific Deviations. <i>Proceedings of the Design Society International Conference on Engineering Design</i> , <b>2019</b> , 1, 3441-3450	0.7	4
261	4.0 in metal forming [Questions and challenges. <i>Procedia CIRP</i> , <b>2019</b> , 79, 649-654	1.8	4
260	Investigation of different surface treatment parameters in the context of roll bonding processes. <i>Procedia Manufacturing</i> , <b>2019</b> , 29, 600-607	1.5	3
259	Experimental investigation of tool-sided surface modifications for dry deep drawing processes at the tool radii area. <i>Procedia Manufacturing</i> , <b>2019</b> , 29, 201-208	1.5	2
258	Analysing resistance element welding with upset auxiliary joining steel-elements under shear load. <i>Procedia Manufacturing</i> , <b>2019</b> , 29, 329-336	1.5	5
257	Cross-profile deep drawing of magnesium alloy AZ31 sheet metal for springback analysis under various temperatures. <i>Procedia Manufacturing</i> , <b>2019</b> , 29, 406-411	1.5	5
256	Failure behavior of different sheet metals after passing a drawbead. <i>Procedia Manufacturing</i> , <b>2019</b> , 34, 125-132	1.5	1
255	Flexible rolling of rotational symmetric tailored blanks with a two-sided thickness profile. <i>Procedia Manufacturing</i> , <b>2019</b> , 34, 139-146	1.5	1

254	Manufacturing and Characterization of Multilayered 7000-Series Aluminum with Improved Corrosion Behavior Processed via Accumulative Roll Bonding. <i>Materials Today: Proceedings</i> , <b>2019</b> , 10, 368-375	1.4	1
253	Analysis of the formation of gap-based leakages in polymer-metal electronic systems with labyrinth seals. <i>Journal of Polymer Engineering</i> , <b>2019</b> , 39, 573-586	1.4	2
252	Determination of Forming Limits in Sheet Metal Forming Using Deep Learning. <i>Materials</i> , <b>2019</b> , 12,	3.5	6
251	Manufacturing of advanced smart tooling for metal forming. <i>CIRP Annals - Manufacturing Technology</i> , <b>2019</b> , 68, 605-628	4.9	41
250	Influence of tribological conditions on application relevant component properties of cold forged gears. <i>Production Engineering</i> , <b>2019</b> , 13, 579-588	1.9	5
249	Investigation on blasted tool surfaces as a measure for material flow control in sheet-bulk metal forming. <i>Manufacturing Review</i> , <b>2019</b> , 6, 10	1.4	4
248	Customized exposure strategies for manufacturing hybrid parts by combining laser beam melting and sheet metal forming. <i>Journal of Laser Applications</i> , <b>2019</b> , 31, 022318	2.1	10
247	Investigation on basic friction and wear mechanisms within hot stamping considering the influence of tool steel and hardness. <i>Wear</i> , <b>2019</b> , 426-427, 378-389	3.5	14
246	Investigations on residual stress generation in full-forward-extrusion. <i>Production Engineering</i> , <b>2019</b> , 13, 169	1.9	5
245	Accuracy of Conventional Finite Element Models in Bulk-Forming of Micropins From Sheet Metal. <i>Journal of Micro and Nano-Manufacturing</i> , <b>2019</b> , 7,	1.3	1
244	Researching of commonalities and differences in cold forging of spur and helical gears. <i>Production Engineering</i> , <b>2019</b> , 13, 391-397	1.9	2
243	Geometric and corrosive influences on load-bearing capacity of multi-element shear-clinching specimen <b>2019</b> ,		2
242	Heating effect on the forming behaviour of high nitrogen steel in bulk forming <b>2019</b> ,		1
241	On the inverse identification of Lankford coefficients using geometrical changes under quasi-biaxial loading. <i>International Journal of Material Forming</i> , <b>2019</b> , 12, 1053-1061	2	3
240	Residual effects of ultrasonic-assisted compression testing on pure copper <b>2019</b> ,		1
239	Investigation on the tribological behavior of tool-sided tailored surfaces for controlling the material flow in sheet-bulk metal forming <b>2019</b> ,		4
238	Comparison of extrusion processes in sheet-bulk metal forming for production of filigree functional elements. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2019</b> , 26, 41-49	3.4	7
237	Investigation of the tool wear behaviour in shear-clinching processes during the running-in phase <b>2019</b> ,		1

236	Mechanical joining without auxiliary element by cold formed pins for multi-material-systems <b>2019</b> ,		13
235	A Methodology for the Application of Virtual Evaluation Methods within the Design Process of Cold Forged Steel Pinions. <i>Proceedings of the Design Society International Conference on Engineering Design</i> , <b>2019</b> , 1, 3451-3460	0.7	4
234	New Approach on the Allocation of Wear Allowances - A Case Study. <i>Proceedings of the Design Society International Conference on Engineering Design</i> , <b>2019</b> , 1, 3511-3520	0.7	
233	Fundamental mechanisms and their interactions in shear-clinching technology and investigation of the process robustness. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2019</b> , 50, 987-1005	0.9	2
232	Blockchain for forming technology [tamper-proof exchange of production data. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 651, 012046	0.4	4
231	Influence of varying sheet material properties on dry deep drawing process. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 651, 012012	0.4	2
230	Augmented Reality for Forming Technology [Visualisation of Simulation Results and Component Measurement. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 651, 012045	0.4	
229	Characterisation of new lubrication systems for hot forming of high strength aluminum alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 651, 012013	0.4	3
228	Numerical simulation of hydraulic bulging using uniaxial and biaxial flow curves and different yield criteria. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 651, 012038	0.4	
227	Basics for inline measurement of tribological conditions in series production of car body parts. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 651, 012050	0.4	
226	Friction reduction in EHL contacts by surface microtexturing [tribological performance, manufacturing and tailored design. <i>Industrial Lubrication and Tribology</i> , <b>2019</b> , 71, 986-990	1.3	7
225	Adaption of tool surface for sheet-bulk metal forming by means of pressurized air wet abrasive jet machining. <i>Production Engineering</i> , <b>2019</b> , 13, 71-77	1.9	4
224	Application of Tailor Heat Treated Blanks technology in a joining by forming process. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 264, 259-272	5.3	18
223	Control of the material flow in sheet-bulk metal forming using modifications of the tool surface. <i>International Journal of Material Forming</i> , <b>2019</b> , 12, 17-26	2	12
222	Experimental Evaluation of Cold Forging Lubricants Using Double-Cup-Extrusion-Tests. <i>Materials Science Forum</i> , <b>2018</b> , 918, 65-70	0.4	7
221	Influence of tribological conditions on cold forging of gears. <i>Production Engineering</i> , <b>2018</b> , 12, 367-375	1.9	3
220	Analysis of the bending effects and the biaxial pre-straining in sheet metal stretch forming processes for the determination of the forming limits. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 138-139, 295-309	5.5	14
219	Influence of ultrasonic vibration on the shear formability of metallic materials. <i>CIRP Annals - Manufacturing Technology</i> , <b>2018</b> , 67, 277-280	4.9	7



218	Investigation of tribological behaviour of a-C:H coatings for dry deep drawing of aluminium alloys. <i>Tribology International</i> , <b>2018</b> , 118, 484-490	4.9	11
217	A Round Robin study for selective laser sintering of polymers: Back tracing of the pore morphology to the process parameters. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 252, 537-545	5.3	25
216	Tribological Behavior of Different Tool Steels and Surface Properties under Hot Stamping Conditions. <i>Key Engineering Materials</i> , <b>2018</b> , 767, 212-219	0.4	3
215	Improvement of Numerical Modelling Considering Plane Strain Material Characterization with an Elliptic Hydraulic Bulge Test. <i>Journal of Manufacturing and Materials Processing</i> , <b>2018</b> , 2, 6	2.2	8
214	Shear-Clinching of Multi-Element Specimens of Aluminium Alloy and Ultra-High-Strength Steel. <i>Key Engineering Materials</i> , <b>2018</b> , 767, 389-396	0.4	7
213	Tribological Behavior of Carbon Based Coatings Adapted to Lubricant-Free Forming Conditions. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , <b>2018</b> , 5, 361-367	3.8	8
212	Investigation of fatigue strength of tool steels in sheet-bulk metal forming <b>2018</b> ,		3
211	Identification of a process window for tailored carburization of sheet metals in hot stamping <b>2018</b> ,		1
210	Numerical Investigation of the Tool Load in Joining by Forming of Dissimilar Materials Using Shear-Clinching Technology. <i>Key Engineering Materials</i> , <b>2018</b> , 767, 397-404	0.4	3
209	Influence of the coating process on the tribological conditions during cold forging with a MoS <sub>2</sub> based lubricant <b>2018</b> ,		1
208	Investigation of diffusion behavior of carburized sheet metal in hot stamping. <i>MATEC Web of Conferences</i> , <b>2018</b> , 190, 08004	0.3	1
207	Analysis of the stress and directional dependent Bauschinger-effect of sheet metals. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 418, 012084	0.4	
206	Metallographic analysis of failure mechanisms during Nakajima tests for the evaluation of forming limits on a dual-phase steel. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 418, 012047	0.4	2
205	Improvement of the drawing ratio of the anisotropic material behaviour under near plane strain conditions for DP600 characterized in elliptic hydraulic bulge test. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1063, 012161	0.3	3
204	Bulk Metal Forming of Additively Manufactured Elements. <i>MATEC Web of Conferences</i> , <b>2018</b> , 190, 03002	0.3	2
203	In Situ Formation of a Metastable $\beta$ Ti Alloy by Laser Powder Bed Fusion (L-PBF) of Vanadium and Iron Modified Ti-6Al-4V. <i>Metals</i> , <b>2018</b> , 8, 1067	2.3	13
202	Investigation of Heat Treatment Strategies for Additively-Manufactured Tools of X37CrMoV5-1. <i>Metals</i> , <b>2018</b> , 8, 854	2.3	15
201	Numerical modelling approach for the temperature dependent forming behaviour of Ti-6Al-4V. <i>MATEC Web of Conferences</i> , <b>2018</b> , 190, 12004	0.3	

200	Influence of a local laser heat treatment on the bending properties of aluminium extrusion profiles. <i>Procedia CIRP</i> , <b>2018</b> , 74, 780-784	1.8	1
199	Influence of a bending operation on the bonding strength for hybrid parts made of Ti-6Al-4V. <i>Procedia CIRP</i> , <b>2018</b> , 74, 290-294	1.8	9
198	Analysis of combined extrusion micro coining process to manufacture microstructured tappets. <i>Procedia Manufacturing</i> , <b>2018</b> , 15, 272-279	1.5	1
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183	Modification of tribological conditions for influencing the material flow in bulk forming of microparts from sheet metal <b>2017</b> ,		2

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