

Marion Merklein

List of Publications by Citations

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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

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61
g-index

352
ext. papers

5,552
ext. citations

1.9
avg, IF

6.14
L-index

#	Paper	IF	Citations
343	Laser based additive manufacturing in industry and academia. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 561-583	4.9	304
342	Investigation of the thermo-mechanical properties of hot stamping steels. <i>Journal of Materials Processing Technology</i> , 2006 , 177, 452-455	5.3	283
341	A review on tailored blanks Production, applications and evaluation. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 151-164	5.3	271
340	Bulk forming of sheet metal. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 725-745	4.9	257
339	Environmentally benign tribo-systems for metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2010 , 59, 760-780	4.9	214
338	Hot stamping of boron steel sheets with tailored properties: A review. <i>Journal of Materials Processing Technology</i> , 2016 , 228, 11-24	5.3	184
337	Hot stamping of ultra-high strength steel parts. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 755-773	4.9	175
336	Testing and modelling of material behaviour and formability in sheet metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 727-749	4.9	151
335	Characterisation of the Flow Properties of the Quenchenable Ultra High Strength Steel 22MnB5. <i>CIRP Annals - Manufacturing Technology</i> , 2006 , 55, 229-232	4.9	150
334	Investigation on induction heating for hot stamping of boron alloyed steels. <i>CIRP Annals - Manufacturing Technology</i> , 2009 , 58, 275-278	4.9	112
333	Metal forming beyond shaping: Predicting and setting product properties. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 629-653	4.9	111
332	Hybrid Additive Manufacturing Technologies – An Analysis Regarding Potentials and Applications. <i>Physics Procedia</i> , 2016 , 83, 549-559		82
331	Investigations on the thermal behavior of ultra high strength boron manganese steels within hot stamping. <i>International Journal of Material Forming</i> , 2009 , 2, 259-262	2	75
330	Determination of Material and Process Characteristics for Hot Stamping Processes of Quenchenable Ultra High Strength Steels with Respect to a FE-based Process Design. <i>SAE International Journal of Materials and Manufacturing</i> , 2008 , 1, 411-426	1	66
329	Fundamental investigations on the material flow at combined sheet and bulk metal forming processes. <i>CIRP Annals - Manufacturing Technology</i> , 2011 , 60, 283-286	4.9	59
328	Determination of tribological conditions within hot stamping. <i>Production Engineering</i> , 2008 , 2, 269-276	1.9	56
327	Time dependent determination of forming limit diagrams. <i>CIRP Annals - Manufacturing Technology</i> , 2010 , 59, 295-298	4.9	53

326	Aluminum tailored heat treated blanks. <i>Production Engineering</i> , 2009 , 3, 401-410	1.9	48
325	Development of a biaxial tensile machine for characterization of sheet metals. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 939-946	5.3	47
324	Development of a mechanical joining process for automotive body-in-white production. <i>International Journal of Material Forming</i> , 2010 , 3, 1059-1062	2	45
323	Bendability of advanced high strength steels A new evaluation procedure. <i>CIRP Annals - Manufacturing Technology</i> , 2013 , 62, 247-250	4.9	44
322	Manufacturing of advanced smart tooling for metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 605-628	4.9	41
321	Time Dependent FLC Determination Comparison of Different Algorithms to Detect the Onset of Unstable Necking before Fracture. <i>Key Engineering Materials</i> , 2013 , 549, 397-404	0.4	39
320	Interlaboratory comparison for heat transfer coefficient identification in hot stamping of high strength steels. <i>International Journal of Material Forming</i> , 2010 , 3, 817-820	2	37
319	Mechanical properties of an innovative shear-clinching technology for ultra-high-strength steel and aluminium in lightweight car body structures. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016 , 60, 613-620	1.9	36
318	Basic Investigations on the Hot Stamping Steel 22MnB5. <i>Advanced Materials Research</i> , 2005 , 6-8, 795-804	0.5	35
317	A Round Robin study for Selective Laser Sintering of polyamide 12: Microstructural origin of the mechanical properties. <i>Optics and Laser Technology</i> , 2017 , 89, 31-40	4.2	34
316	A method for the layer compression test considering the anisotropic material behavior. <i>International Journal of Material Forming</i> , 2009 , 2, 483-486	2	34
315	Manufacturing of complex functional components with variants by using a new metal forming process B sheet-bulk metal forming. <i>International Journal of Material Forming</i> , 2010 , 3, 347-350	2	33
314	An inverse approach to the numerical design of the process sequence of tailored heat treated blanks. <i>Production Engineering</i> , 2008 , 2, 15-20	1.9	32
313	Experimental and numerical investigation of a strain rate controlled hydraulic bulge test of sheet metal. <i>Journal of Materials Processing Technology</i> , 2016 , 235, 121-133	5.3	30
312	Manufacturing of functional elements by sheet-bulk metal forming processes. <i>Production Engineering</i> , 2016 , 10, 63-80	1.9	30
311	Orbital forming of tailored blanks from sheet metal. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 263-266	4.9	30
310	Finite Element Simulation of Deep Drawing of Tailored Heat Treated Blanks. <i>CIRP Annals - Manufacturing Technology</i> , 2004 , 53, 223-226	4.9	29
309	Improved Sheet Bulk Metal Forming Processes by Local Adjustment of Tribological Properties. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2011 , 133,	3.3	27

308	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> , 2018 , 252, 537-545	5.3	25
307	Experimental and numerical analysis of tribological effective surfaces for forming tools in Sheet-Bulk Metal Forming. <i>Production Engineering</i> , 2016 , 10, 37-50	1.9	25
306	Developing LBM Process Parameters for Ti-6Al-4V Thin Wall Structures and Determining the Corresponding Mechanical Characteristics. <i>Physics Procedia</i> , 2014 , 56, 90-98		25
305	Formability of Accumulative Roll Bonded Aluminum AA1050 and AA6016 Investigated Using Bulge Tests. <i>Advanced Engineering Materials</i> , 2008 , 10, 1101-1109	3.5	25
304	Modelling kinetics of phase transformation for the indirect hot stamping process to focus on car body parts with tailored properties. <i>Journal of Materials Processing Technology</i> , 2016 , 228, 59-67	5.3	24
303	Tribological measures for controlling material flow in sheet-bulk metal forming. <i>Production Engineering</i> , 2016 , 10, 459-470	1.9	24
302	Material Flow in Sheet-Bulk Metal Forming. <i>Key Engineering Materials</i> , 2012 , 504-506, 1035-1040	0.4	23
301	On the hot deformation behavior of Ti-6Al-4V made by additive manufacturing. <i>Journal of Materials Processing Technology</i> , 2021 , 288, 116840	5.3	21
300	High-feed milling of tailored surfaces for sheet-bulk metal forming tools. <i>Production Engineering</i> , 2015 , 9, 215-223	1.9	20
299	Improving formability due to an enhancement of sealing limits caused by using a smart fluid as active fluid medium for hydroforming. <i>Production Engineering</i> , 2014 , 8, 7-15	1.9	20
298	Tailoring Material Properties of Aluminum by Local Laser Heat Treatment. <i>Physics Procedia</i> , 2012 , 39, 232-239		19
297	Application of Tailor Heat Treated Blanks technology in a joining by forming process. <i>Journal of Materials Processing Technology</i> , 2019 , 264, 259-272	5.3	18
296	Influence of tool surface on tribological conditions in conventional and dry sheet metal forming. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2015 , 2, 131-137	3.8	17
295	Hot stamping: manufacturing functional optimized components. <i>Production Engineering</i> , 2013 , 7, 141-151.9		17
294	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. <i>Journal of Laser Applications</i> , 2017 , 29, 022307	2.1	16
293	Determination of friction coefficients in deep drawing by modification of Siebel's formula for calculation of ideal drawing force. <i>Production Engineering</i> , 2014 , 8, 577-584	1.9	16
292	Tailored Heat Treated Accumulative Roll Bonded Aluminum Blanks: Microstructure and Mechanical Behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 3097-3107	2.3	15
291	Investigation of Heat Treatment Strategies for Additively-Manufactured Tools of X37CrMoV5-1. <i>Metals</i> , 2018 , 8, 854	2.3	15

290	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	3.5	14
289	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> , 2018 , 138-139, 295-309	5.5	14
288	Sheet Metal Forming - A New Kind of Forge for the Future. <i>Key Engineering Materials</i> , 2007 , 344, 9-20	0.4	14
287	Mechanical joining without auxiliary element by cold formed pins for multi-material-systems 2019 ,		13
286	A New Process Chain for Joining Sheet Metal to Fibre Composite Sheets. <i>Key Engineering Materials</i> , 2014 , 611-612, 1468-1475	0.4	13
285	Characterization of Hybrid Components Consisting of SEBM Additive Structures and Sheet Metal of Alloy Ti-6Al-4V. <i>Key Engineering Materials</i> , 2014 , 611-612, 609-614	0.4	13
284	Improvement of a rivet geometry for the self-piercing riveting of high-strength steel and multi-material joints. <i>Production Engineering</i> , 2020 , 14, 417-423	1.9	13
283	In Situ Formation of a Metastable Ti Alloy by Laser Powder Bed Fusion (L-PBF) of Vanadium and Iron Modified Ti-6Al-4V. <i>Metals</i> , 2018 , 8, 1067	2.3	13
282	Fluid elements in machine tools. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 611-634	4.9	12
281	A new approach for the determination of the linear elastic modulus from uniaxial tensile tests of sheet metals. <i>Journal of Materials Processing Technology</i> , 2017 , 241, 64-72	5.3	12
280	Analysis of Effectiveness of Locally Adapted Tribological Conditions for Improving Product Quality in Sheet-Bulk Metal Forming. <i>Applied Mechanics and Materials</i> , 2015 , 794, 81-88	0.3	12
279	Control of the material flow in sheet-bulk metal forming using modifications of the tool surface. <i>International Journal of Material Forming</i> , 2019 , 12, 17-26	2	12
278	Plastic flow and its control in sheetBulk metal forming of thin-walled functional components. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 245-248	4.9	11
277	Experimental analysis of the forming behavior of ash wood veneer with nonwoven backings. <i>European Journal of Wood and Wood Products</i> , 2020 , 78, 321-331	2.1	11
276	Investigation of tribological behaviour of a-C:H coatings for dry deep drawing of aluminium alloys. <i>Tribology International</i> , 2018 , 118, 484-490	4.9	11
275	Influence of short-term heat treatment on the microstructure and mechanical properties of EN AW-6060 T4 extrusion profiles: Part A. <i>Production Engineering</i> , 2016 , 10, 383-389	1.9	11
274	Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings from acidic chloride electrolyte containing 4-hydroxybenzaldehyde and ammonium thiocyanate. <i>Surface and Coatings Technology</i> , 2016 , 298, 73-82	4.4	11
273	Investigations and Approaches on Material Flow of Non-uniform Arranged Cavities in Sheet Bulk Metal Forming Processes. <i>Procedia Engineering</i> , 2014 , 81, 401-406		11

272	Additive Manufacturing of Functional Elements on Sheet Metal. <i>Physics Procedia</i> , 2016 , 83, 797-807		11
271	Customized exposure strategies for manufacturing hybrid parts by combining laser beam melting and sheet metal forming. <i>Journal of Laser Applications</i> , 2019 , 31, 022318	2.1	10
270	Introduction to sheet-bulk metal forming. <i>Production Engineering</i> , 2016 , 10, 1-3	1.9	10
269	Investigations of ductile damage during the process chains of toothed functional components manufactured by sheet-bulk metal forming. <i>Production Engineering</i> , 2016 , 10, 5-15	1.9	10
268	Designing, Manufacturing and Processing of Tailored Blanks in a Sheet-bulk Metal Forming Process. <i>Procedia Manufacturing</i> , 2017 , 10, 286-297	1.5	10
267	Development of a Testing Method for the Identification of Friction Coefficients for Numerical Modeling of the Shear-Clinching Process. <i>Key Engineering Materials</i> , 2015 , 639, 469-476	0.4	10
266	A New Approach to the Evaluation of Forming Limits in Sheet Metal Forming. <i>Key Engineering Materials</i> , 2015 , 639, 333-338	0.4	10
265	Enhancement of formability of aluminum alloys in multi-stage forming operations by a local intermediate heat treatment. <i>Production Engineering</i> , 2012 , 6, 541-549	1.9	10
264	Measurement of Material Flow in Series Production. <i>Key Engineering Materials</i> , 2011 , 473, 137-144	0.4	10
263	Variation of deep drawing steel grades properties in dependency of the stress state and its impact on FEA. <i>International Journal of Material Forming</i> , 2011 , 4, 183-192	2	10
262	FE-Simulation of the Heat Transfer by Defined Cooling Conditions during the Hot Stamping Process. <i>Key Engineering Materials</i> , 2011 , 473, 699-706	0.4	10
261	Experimental Study of a Full Forward Extrusion Process from Metal Strip. <i>Key Engineering Materials</i> , 2012 , 504-506, 587-592	0.4	10
260	Potential of shear-clinching technology for joining of three sheets. <i>Journal of Advanced Joining Processes</i> , 2021 , 3, 100043	2.1	10
259	Alloy design and adaptation for additive manufacture. <i>Journal of Materials Processing Technology</i> , 2022 , 299, 117358	5.3	10
258	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: A case study. <i>Journal of Strain Analysis for Engineering Design</i> , 2017 , 52, 258-273	1.3	9
257	Analysis of fundamental dependencies between manufacturing and processing Tailored Blanks in sheet-bulk metal forming processes. <i>Procedia Engineering</i> , 2017 , 207, 305-310		9
256	Numerical and experimental investigation of dry deep drawing of aluminum alloys with conventional and coated tool surfaces. <i>Procedia Engineering</i> , 2017 , 207, 2245-2250		9
255	Funktionsoptimierte Strukturbauteile im Presshütprozess. <i>Lightweight Design</i> , 2010 , 3, 52-58	0.1	9

254	Enhanced Formability of Ultrafine-Grained Aluminum Blanks by Local Heat Treatments. <i>Key Engineering Materials</i> , 2009 , 410-411, 169-176	0.4	9
253	A ROUND ROBIN STUDY FOR LASER BEAM MELTING IN METAL POWDER BED. <i>South African Journal of Industrial Engineering</i> , 2016 , 27,	1.7	9
252	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> , 2021 , 291, 117032	5.3	9
251	Influence of a bending operation on the bonding strength for hybrid parts made of Ti-6Al-4V. <i>Procedia CIRP</i> , 2018 , 74, 290-294	1.8	9
250	Bending of unidirectional non-crimp-fabrics: experimental characterization, constitutive modeling and application in finite element simulation. <i>Production Engineering</i> , 2015 , 9, 1-10	1.9	8
249	Influence of the properties of the joining partners on the load-bearing capacity of shear-clinched joints. <i>Journal of Materials Processing Technology</i> , 2020 , 283, 116696	5.3	8
248	Ductile Damage and Fatigue Behavior of Semi-Finished Tailored Blanks for Sheet-Bulk Metal Forming Processes. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 1136-1142	1.6	8
247	A non-invasive form finding method with application to metal forming. <i>Production Engineering</i> , 2016 , 10, 93-102	1.9	8
246	Improvement of Numerical Modelling Considering Plane Strain Material Characterization with an Elliptic Hydraulic Bulge Test. <i>Journal of Manufacturing and Materials Processing</i> , 2018 , 2, 6	2.2	8
245	Tribological Behavior of Carbon Based Coatings Adapted to Lubricant-Free Forming Conditions. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018 , 5, 361-367	3.8	8
244	Mechanical Testing of Additive Manufactured Metal Parts. <i>Key Engineering Materials</i> , 2015 , 651-653, 713-718	0.4	8
243	Qualification of laser based additive production for manufacturing of forging Tools. <i>MATEC Web of Conferences</i> , 2015 , 21, 08010	0.3	8
242	Process Design of Aluminum Tailor Heat Treated Blanks. <i>Materials</i> , 2015 , 8, 8524-8538	3.5	8
241	Analysis of Material Behaviour in Experimental and Simulative Setup of Joining by Forming of Aluminium Alloy and High Strength Steel with Shear-Clinching Technology. <i>Advanced Materials Research</i> , 2014 , 966-967, 549-556	0.5	8
240	Characterisation of kinematic hardening and yield surface evolution from uniaxial to biaxial tension with continuous strain path change. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 297-300	4.9	8
239	Fiber Orientation Mechanism of Continuous Fiber Reinforced Thermoplastics Hybrid Parts Joined with Metallic Pins. <i>Applied Composite Materials</i> , 2021 , 28, 951-972	2	8
238	High power laser beam melting of Ti6Al4V on formed sheet metal to achieve hybrid structures 2015 ,		7
237	Influence of a retrogression and reaging (RRA)-treatment on the mechanical and microstructural characteristics of the aluminium alloy AlZn4,5Mg1. <i>Production Engineering</i> , 2015 , 9, 161-166	1.9	7

236	Potential of Joining Dissimilar Materials by Cold Formed Pin-Structures. <i>Journal of Materials Processing Technology</i> , 2020 , 283, 116697	5.3	7
235	Experimental Evaluation of Cold Forging Lubricants Using Double-Cup-Extrusion-Tests. <i>Materials Science Forum</i> , 2018 , 918, 65-70	0.4	7
234	Influence of ultrasonic vibration on the shear formability of metallic materials. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 277-280	4.9	7
233	Influence of short-term heat treatment on the microstructure and mechanical properties of EN AW-6060 T4 extrusion profiles Part B. <i>Production Engineering</i> , 2016 , 10, 391-398	1.9	7
232	Shear-Clinching of Multi-Element Specimens of Aluminium Alloy and Ultra-High-Strength Steel. <i>Key Engineering Materials</i> , 2018 , 767, 389-396	0.4	7
231	Comparison of extrusion processes in sheet-bulk metal forming for production of filigree functional elements. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2019 , 26, 41-49	3.4	7
230	Dynamic correction of oscillatory forces during ultrasonic-assisted metal forming. <i>Production Engineering</i> , 2017 , 11, 455-465	1.9	7
229	Characterization of Heat Transfer Coefficients of Tool Materials and Tool Coatings for Hot Stamping of Boron-Manganese Steels. <i>Key Engineering Materials</i> , 2010 , 438, 81-88	0.4	7
228	Microstructural evolution and geometrical properties of TiB ₂ metal matrix composite protrusions on hot work tool steel surfaces manufactured by laser implantation. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 481-501	3.2	7
227	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	7
226	Investigation of the influence of tool-sided parameters on deformation and occurring tool loads in shear-clinching processes. <i>Procedia Manufacturing</i> , 2018 , 15, 1346-1353	1.5	7
225	Review on mechanical joining by plastic deformation. <i>Journal of Advanced Joining Processes</i> , 2022 , 1001131	1.1	7
224	Determination of Forming Limits in Sheet Metal Forming Using Deep Learning. <i>Materials</i> , 2019 , 12,	3.5	6
223	Embossing of Metal Inserts for Subsequent Assembly Injection Moulding of Media Tight Electronic Systems. <i>Key Engineering Materials</i> , 2015 , 639, 99-106	0.4	6
222	FE-Based Study of the Cutting Operation within Joining by Forming of Dissimilar Materials Using Shear-Clinching Technology. <i>Applied Mechanics and Materials</i> , 2015 , 794, 304-311	0.3	6
221	New Process Strategies to Manufacture Tailored Blanks out of DP600 by Orbital Forming. <i>Applied Mechanics and Materials</i> , 2015 , 794, 144-151	0.3	6
220	Locally Adapted Tribological Conditions as a Method for Influencing the Material Flow in Sheet-Bulk Metal Forming Processes. <i>Key Engineering Materials</i> , 2015 , 639, 267-274	0.4	6
219	Additive Manufacturing of Tailored Blank for Sheet-Bulk Metal Forming Processes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012034	0.4	6

218	Measuring procedures for surface evaluation of additively manufactured powder bed-based polymer and metal parts. <i>Measurement Science and Technology</i> , 2020 , 31, 095202	2	6
217	Data-driven inline optimization of the manufacturing process of car body parts. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 159, 012002	0.4	6
216	Edge crack sensitivity of lightweight materials under different load conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 159, 012017	0.4	6
215	Influence of a Regression Heat Treatment on the Material Properties of a Copper-free 7xxx Series Aluminum Alloy. <i>Procedia CIRP</i> , 2014 , 18, 108-113	1.8	6
214	Influence of Surface Integrity on the Tribological Performance of Cold Forging Tools. <i>Procedia CIRP</i> , 2014 , 13, 61-66	1.8	6
213	Towards virtual deformation dilatometry for the design of hot stamping process. <i>Procedia Engineering</i> , 2017 , 207, 1821-1826		6
212	Data-driven model development for quality prediction in forming technology 2017 ,		6
211	Flexible Rolling of Process Adapted Semi-Finished Parts and its Application in a Sheet-Bulk Metal Forming Process. <i>Key Engineering Materials</i> , 2015 , 639, 259-266	0.4	6
210	Approach to minimize the distortion of 6xxx-aluminum tailor heat treated blanks in industrial applications. <i>Production Engineering</i> , 2015 , 9, 569-576	1.9	6
209	Properties of Tool Steels for Application in Hot Stamping. <i>Steel Research International</i> , 2020 , 91, 1900422.6		6
208	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> , 2020 , 94, 35-40	1.8	6
207	Innovative approaches for controlling the material flow in sheet-bulk metal forming processes. <i>Manufacturing Review</i> , 2016 , 3, 2	1.4	6
206	Analysis of Forming Limits in Sheet Metal Forming with Pattern Recognition Methods. Part 1: Characterization of Onset of Necking and Expert Evaluation. <i>Materials</i> , 2018 , 11,	3.5	6
205	Analysing resistance element welding with upset auxiliary joining steel-elements under shear load. <i>Procedia Manufacturing</i> , 2019 , 29, 329-336	1.5	5
204	Cross-profile deep drawing of magnesium alloy AZ31 sheet metal for springback analysis under various temperatures. <i>Procedia Manufacturing</i> , 2019 , 29, 406-411	1.5	5
203	Influence of tribological conditions on application relevant component properties of cold forged gears. <i>Production Engineering</i> , 2019 , 13, 579-588	1.9	5
202	Investigations on residual stress generation in full-forward-extrusion. <i>Production Engineering</i> , 2019 , 13, 169	1.9	5
201	Investigation of the Springback Behaviour of High-strength Aluminium Alloys Based on Cross Profile Deep Drawing Tests. <i>Procedia Manufacturing</i> , 2020 , 47, 1223-1229	1.5	5

200	Specimen's Geometry Related Influences on Load-Bearing Capacity of Joining Aluminium and UHSS by Innovative Shear-Clinching. <i>Journal of Materials Science Research</i> , 2017 , 6, 19	1	5
199	Improvement of surface integrity of cold forging tools by adaption of tool making process. <i>Production Engineering</i> , 2014 , 8, 131-141	1.9	5
198	A modular modeling approach for describing the in-plane forming behavior of unidirectional non-crimp-fabrics. <i>Production Engineering</i> , 2014 , 8, 635-643	1.9	5
197	Experimental study on the warm forming and quenching behavior for hot stamping of high-strength aluminum alloys. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012055	0.3	5
196	Investigation of the influence of process parameters on adhesive wear under hot stamping conditions. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012048	0.3	5
195	Influence of metal inserts with microformed edges on subsequent injection assembly moulding for media tight electronic systems. <i>MATEC Web of Conferences</i> , 2015 , 21, 09013	0.3	5
194	Tool System for Ultrasonic-Assisted Forming and Material Characterisation with 15 kHz Oscillation Frequency. <i>Applied Mechanics and Materials</i> , 2015 , 794, 427-434	0.3	5
193	Basic Investigations of Non-Pre-Punched Joining by Forming of Aluminium Alloy and High Strength Steel with Shear-Clinching Technology. <i>Key Engineering Materials</i> , 2014 , 611-612, 1413-1420	0.4	5
192	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> , 2020 , 106, 1133-1148	3.2	5
191	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> , 2021 , 5, 25	2.2	5
190	Induction Heat Treatment of Sheet-Bulk Metal-Formed Parts Assisted by Water/Air Spray Cooling. <i>Steel Research International</i> , 2016 , 87, 1220-1227	1.6	5
189	In-line strategies and methods to reduce balancing efforts within rotor production for electric drives 2016 ,		5
188	Functional optimization of hot-stamped components by local carburization. <i>International Journal of Lightweight Materials and Manufacture</i> , 2020 , 3, 43-54	2.2	5
187	Manufacturing of tailored blanks by orbital forming with a two-sided material thickening. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116491	5.3	5
186	Forming of metal-based composite parts. <i>CIRP Annals - Manufacturing Technology</i> , 2021 , 70, 567-588	4.9	5
185	Orbital forming of tailored blanks with two-sided local material thickening. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 3469-3478	3.2	5
184	Experimental and Numerical Studies on the Forming Behavior of High Strain Al-Mg-Si(-Cu) Sheet Alloys. <i>Procedia Engineering</i> , 2017 , 183, 95-100		4
183	Study of the mechanical properties of sheet metals drawn through drawbeads. <i>Manufacturing Review</i> , 2019 , 6, 14	1.4	4

182	A Concept for Process-Oriented Interdisciplinary Tolerance Management Considering Production-Specific Deviations. <i>Proceedings of the Design Society International Conference on Engineering Design</i> , 2019 , 1, 3441-3450	0.7	4
181	4.0 in metal forming [Questions and challenges. <i>Procedia CIRP</i> , 2019 , 79, 649-654	1.8	4
180	Investigation on blasted tool surfaces as a measure for material flow control in sheet-bulk metal forming. <i>Manufacturing Review</i> , 2019 , 6, 10	1.4	4
179	Process design for the forming of semi-tubular self-piercing rivets made of high nitrogen steel. <i>Procedia Manufacturing</i> , 2020 , 50, 280-285	1.5	4
178	Investigation of Production Limits in Manufacturing Microstructured Surfaces Using Micro Coining. <i>Micromachines</i> , 2017 , 8,	3.3	4
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176	Investigation on the tribological behavior of tool-sided tailored surfaces for controlling the material flow in sheet-bulk metal forming 2019 ,		4
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170	Bending of High-strength Low-alloyed Steel with Respect to Edge Crack Sensitivity Caused by Shearing Operations. <i>Procedia Engineering</i> , 2014 , 81, 712-717		4
169	Modelling Kinetics of Phase Transformation for the Indirect Hot Stamping Process. <i>Key Engineering Materials</i> , 2013 , 549, 108-116	0.4	4
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160	Strategies for residual stress adjustment in bulk metal forming. <i>Archive of Applied Mechanics</i> , 2021 , 91, 3557-3577	2.2	4
159	Improvement of deep drawability of ultra-fine grained 6000 series aluminum alloy by tailored heat treatment. <i>Procedia Manufacturing</i> , 2018 , 15, 976-983	1.5	4
158	Analysis of Forming Limits in Sheet Metal Forming with Pattern Recognition Methods. Part 2: Unsupervised Methodology and Application. <i>Materials</i> , 2018 , 11,	3.5	4
157	Investigation of different surface treatment parameters in the context of roll bonding processes. <i>Procedia Manufacturing</i> , 2019 , 29, 600-607	1.5	3
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145	Investigations on Austenitization Parameters Influencing Wear Behavior Within Hot Stamping. <i>Procedia Engineering</i> , 2014 , 81, 1695-1700		3
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141	Mechanical Response of Ti-6Al-4V Alloy on Deformation at Moderate Temperatures. <i>Key Engineering Materials</i> , 2013 , 549, 311-316	0.4	3
140	Interlaboratory Comparison of Friction Conditions in Hot Stamping Operations. <i>Key Engineering Materials</i> , 2010 , 438, 97-105	0.4	3
139	Formability of Ultrafine-Grained AA6016 Sheets Processed by Accumulative Roll Bonding. <i>Key Engineering Materials</i> , 2012 , 504-506, 575-580	0.4	3
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137	Localized Laser Dispersing of Titanium-Based Particles for Improving the Tribological Performance of Hot Stamping Tools. <i>Journal of Manufacturing and Materials Processing</i> , 2020 , 4, 68	2.2	3
136	Investigation of Different Joining by Forming Strategies when Connecting Different Metals without Auxiliary Elements. <i>Key Engineering Materials</i> , 2019 , 883, 19-26	0.4	3
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125	Experimental investigation of tool-sided surface modifications for dry deep drawing processes at the tool radii area. <i>Procedia Manufacturing</i> , 2019 , 29, 201-208	1.5	2
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118	Geometric and corrosive influences on load-bearing capacity of multi-element shear-clinching specimen 2019 ,		2
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110	Investigations on parameters influencing thermal and frictional properties within hot stamping. <i>HTM - Journal of Heat Treatment and Materials</i> , 2011 , 66, 335-341	0.7	2
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107	Influence of the Rivet Coating on the Friction during Self-Piercing Riveting. <i>Key Engineering Materials</i> , 883 , 11-18	0.4	2
106	Influence of Geometrical Shapes and Sheet Thicknesses on the Dimensional Accuracy of Single and Assembled Parts. <i>Key Engineering Materials</i> , 2016 , 716, 923-930	0.4	2
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104	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> , 2018 , 418, 012047	0.4	2
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102	Investigation of the tribological behaviour of microstructures for controlling the material flow in sheet-bulk metal forming. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2018 , 22, 66-75	3.4	2
101	Investigation of the thermal and tribological performance of localized laser dispersed tool surfaces under hot stamping conditions. <i>Wear</i> , 2021 , 476, 203694	3.5	2
100	Investigation of the joinability of the high-strength aluminum alloy AA7075 in shear-clinching processes. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021 , 146442072110679	1.3	2
99	Failure behavior of different sheet metals after passing a drawbead. <i>Procedia Manufacturing</i> , 2019 , 34, 125-132	1.5	1
98	Flexible rolling of rotational symmetric tailored blanks with a two-sided thickness profile. <i>Procedia Manufacturing</i> , 2019 , 34, 139-146	1.5	1
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96	Accuracy of Conventional Finite Element Models in Bulk-Forming of Micropins From Sheet Metal. <i>Journal of Micro and Nano-Manufacturing</i> , 2019 , 7,	1.3	1
95	Investigation of thermal effects during ultrasonic-assisted upsetting. <i>Procedia Manufacturing</i> , 2020 , 50, 220-225	1.5	1
94	Analysis of the Modification of Tool Surfaces by Abrasive Blasting and Laser Polishing. <i>Defect and Diffusion Forum</i> , 2020 , 404, 124-131	0.7	1
93	Investigation of the Anisotropic Strain Rate Dependency of AA5182-O and DC04 for Different Stress States. <i>Advanced Materials Research</i> , 2016 , 1140, 35-42	0.5	1

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89	Ultrasonic-Assisted Upsetting of Steel with 15 kHz Oscillation Frequency. <i>Key Engineering Materials</i> , 2016 , 716, 544-551	0.4	1
88	Tool Load Sensitivity Against Multidimensional Process Influences in Microblanking of Copper Foils With Silicon Punches. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016 , 138,	3.3	1
87	Tailored heat treated accumulative roll bonded aluminum blanks: failure under bending stresses. <i>Production Engineering</i> , 2016 , 10, 399-407	1.9	1
86	Identification of a process window for tailored carburization of sheet metals in hot stamping 2018 ,		1
85	Heating effect on the forming behaviour of high nitrogen steel in bulk forming 2019 ,		1
84	Residual effects of ultrasonic-assisted compression testing on pure copper 2019 ,		1
83	Investigation of the tool wear behaviour in shear-clinching processes during the running-in phase 2019 ,		1
82	Data-based control of a multi-step forming process. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012037		1
81	Investigation of a process simulation method for flexible clamping of sheet metal parts. <i>Procedia Engineering</i> , 2017 , 207, 1599-1604		1
80	Influence of Process Errors on the Tool Load in Microblanking of Thin Metal Foils With Silicon Punches. <i>Journal of Micro and Nano-Manufacturing</i> , 2015 , 3,	1.3	1
79	Accumulative Roll Bonding: Forming Behavior, Tailored Properties and Upscaling Approach. <i>Advanced Materials Research</i> , 2014 , 907, 3-16	0.5	1
78	Process-adapted temperature application within a two-stage rivet forming process for high nitrogen steel. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 146442072110686	1.3	1
77	Determination of the properties of semi-finished parts in blanking processes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012009	0.4	1
76	Analysis of the Influence of Surface Modifications on the Fatigue Behavior of Hot Work Tool Steel Components. <i>Materials</i> , 2021 , 14,	3.5	1
75	Basic Numerical Analysis of a Bimantle-Based Forward Extrusion Process. <i>Advanced Materials Research</i> , 1140, 27-34	0.5	1

74	Applicability of Solid Lubricant Coatings in Cold Rod Extrusion of Stainless Steels. <i>Defect and Diffusion Forum</i> , 404, 95-100	0.7	1
73	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> , 2021, 1-29	0	1
72	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	1
71	Influence of the coating process on the tribological conditions during cold forging with a MoS ₂ based lubricant 2018,		1
70	Influence of specimen size and sheet thickness on the material behavior of AZ31B under uniaxial tension. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 159, 012016	0.4	1
69	Research of adapted tool Design in Cold Forging of gears. <i>International Journal of Material Forming</i> , 2020, 13, 873-883	2	1
68	Investigation on extrusion processes in sheet-bulk metal forming from coil. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020, 31, 561-574	3.4	1
67	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> , 2020, 967, 012008	0.4	1
66	Fringe Projection Profilometry in Production Metrology: A Multi-Scale Comparison in Sheet-Bulk Metal Forming. <i>Sensors</i> , 2021, 21,	3.8	1
65	Interaction of various functional elements in thin-walled cups formed by a sheet-bulk metal forming process. <i>MATEC Web of Conferences</i> , 2016, 80, 07003	0.3	1
64	Analytical friction force compensation of flow curves out of layer compression tests with the pin extrusion test. <i>International Journal of Material Forming</i> , 2021, 14, 663-676	2	1
63	Self-Piercing Riveting Using Rivets Made of Stainless Steel with High Strain Hardening. <i>Minerals, Metals and Materials Series</i> , 2021, 1495-1506	0.3	1
62	Investigation of diffusion behavior of carburized sheet metal in hot stamping. <i>MATEC Web of Conferences</i> , 2018, 190, 08004	0.3	1
61	Influence of a local laser heat treatment on the bending properties of aluminium extrusion profiles. <i>Procedia CIRP</i> , 2018, 74, 780-784	1.8	1
60	Analysis of combined extrusion micro coining process to manufacture microstructured tappets. <i>Procedia Manufacturing</i> , 2018, 15, 272-279	1.5	1
59	Adaption of tribological behavior of a-C:H coatings for application in dry deep drawing. <i>MATEC Web of Conferences</i> , 2018, 190, 14002	0.3	1
58	Material flow control in sheet-bulk metal forming processes using blasted tool surfaces. <i>MATEC Web of Conferences</i> , 2018, 190, 13003	0.3	1
57	Influence of Ultrasonic Assistance on the Forming Limits of Steel. <i>Minerals, Metals and Materials Series</i> , 2021, 1281-1290	0.3	1

56	Analysis of Work Hardening and Tribological Changes After a Gap Controlled Drawbead Passage. <i>Minerals, Metals and Materials Series</i> , 2021 , 1537-1548	0.3	1
55	Investigation of the influence of formed, non-rotationally symmetrical pin geometries and their effect on the joint quality of steel and aluminium sheets by direct pin pressing. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 146442072210814	1.3	1
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53	Investigation of the Portevin-Le Chatelier Effect in AlMgSi-Tailored Heat Treated Blanks. <i>Key Engineering Materials</i> , 2015 , 639, 123-130	0.4	0
52	Joining of CFRT-steel hybrid parts via hole-forming and subsequent pin caulking. <i>Production Engineering</i> , 1	1.9	0
51	Analysis of stress pins for the local prestressing of cold forging tools. <i>Production Engineering</i> , 2021 , 15, 119-131	1.9	0
50	Experimental investigation of distortion behavior of laser heat treated blanks. <i>Procedia CIRP</i> , 2020 , 94, 557-560	1.8	0
49	Numerical and experimental investigations for distortion-reduced laser heat treatment of aluminum. <i>Production Engineering</i> , 2021 , 15, 479-488	1.9	0
48	Influence of Stress States on Forming Hybrid Parts with Sheet Metal and Additively Manufactured Element. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 5159-5169	1.6	0
47	Stretch Forming of Ti-6Al-4V Hybrid Parts at Elevated Temperatures. <i>Key Engineering Materials</i> , 2021 , 883, 135-142	1.4	0
46	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> , 2021 , 1157, 012048	0.4	0
45	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> , 2021 , 1157, 012077	0.4	0
44	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> , 2021 , 53, 189-196	1.5	0
43	Contact pressure-dependent friction characterization by using a single sheet metal compression test. <i>Wear</i> , 2021 , 476, 203679	3.5	0
42	Influence of a local short-term heat treatment on the formability of orbital formed functional components. <i>Procedia Manufacturing</i> , 2021 , 53, 72-79	1.5	0
41	Tribological and Thermal Behavior of Laser Implanted Tool Surfaces for Hot Stamping AlSi Coated 22MnB5 Sheets. <i>Defect and Diffusion Forum</i> , 2021 , 414, 69-74	0.7	0
40	Cyber-Physical Systems in the Context of Industry 4.0: A Review, Categorization and Outlook. <i>Information Systems Frontiers</i> , 1	4	0
39	Investigation of diffusion behavior of carburized sheet metal in hot stamping. <i>Manufacturing Review</i> , 2019 , 6, 16	1.4	

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37	Characterization of kinematic hardening with a hydraulic bulge test. <i>Procedia Manufacturing</i> , 2020 , 50, 696-701	1.5
36	Influence of Tool Wear on the Load-Bearing Capacity of Shear-Clinched Joints. <i>Defect and Diffusion Forum</i> , 2020 , 404, 3-10	0.7
35	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> , 2020 , 404, 11-18	0.7
34	Influence of Cutting Processes on Edge Cracking Sensitivity of Bright Finishing Alloys. <i>Key Engineering Materials</i> , 2016 , 716, 443-450	0.4
33	New Approach on the Allocation of Wear Allowances - A Case Study. <i>Proceedings of the Design Society International Conference on Engineering Design</i> , 2019 , 1, 3511-3520	0.7
32	The influence of annealing process in the fabrication of helical needles for sutures in deep-wound cavities. <i>International Journal of Computer Integrated Manufacturing</i> , 2014 , 27, 960-967	4.3
31	Process-oriented validation of hardening models in a cyclic bending test. <i>Procedia Engineering</i> , 2017 , 207, 1904-1909	
30	Investigation of the joinability of single- and multi-layered AA6014 sheets produced by accumulative roll bonding in the shear-clinching process. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 146442072110692	1.3
29	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
28	Laser Implantation of Niobium and Titanium-Based Particles on Hot Working Tool Surfaces for Improving the Tribological Performance within Hot Stamping. <i>Defect and Diffusion Forum</i> , 404, 117-123	0.7
27	Constitutive Friction Law for the Description and Optimization of Tailored Surfaces. <i>Lecture Notes in Production Engineering</i> , 2021 , 307-333	0
26	Forming of Complex Functional Elements on Sheet Metal. <i>Lecture Notes in Production Engineering</i> , 2021 , 30-52	0
25	Tool Sided Surface Modifications in the Industrial Environment. <i>Lecture Notes in Production Engineering</i> , 2021 , 477-492	0
24	Measures for controlling the material flow when extruding sheet-bulk metal forming parts from coil. <i>Manufacturing Review</i> , 2020 , 7, 36	1.4
23	Linked Heat Treatment and Bending Simulation of Aluminium Tailored Heat Treated Profiles. <i>Minerals, Metals and Materials Series</i> , 2017 , 237-248	0.3
22	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> , 2020 , 7, 38-58	2.1
21	Determination of the Biaxial Anisotropy Coefficient Using a Single Layer Sheet Metal Compression Test. <i>Key Engineering Materials</i> , 883, 303-308	0.4

20	Functional Analysis of Components Manufactured by a Sheet-Bulk Metal Forming Process. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 49	2.2
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18	Robustness and sensitivity analysis of a virtual process chain using the S-rail specimen applying random fields. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032126	0.3
17	Investigation of the Unloading Yield Effect in Aluminum and Magnesium Sheet Metal Alloys at Room Temperature. <i>Key Engineering Materials</i> , 2016 , 716, 331-336	0.4
16	Augmented Reality for Forming Technology Visualization of Simulation Results and Component Measurement. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 651, 012045	0.4
15	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	0.4
14	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	0.4
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