

Bernd-Arno Behrens

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.

342
papers

2,657
citations

21
h-index

39
g-index

359
ext. papers

3,094
ext. citations

1.6
avg, IF

5.36
L-index

#	Paper	IF	Citations
342	Bulk forming of sheet metal. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 725-745	4.9	257
341	Hot stamping of ultra-high strength steel parts. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 755-773	4.9	175
340	Handbuch Umformtechnik 2010 ,		96
339	Bone remodelling around the Metha short stem in total hip arthroplasty: a prospective dual-energy X-ray absorptiometry study. <i>International Orthopaedics</i> , 2012 , 36, 533-8	3.8	87
338	Bone remodeling after total hip arthroplasty with a short stemmed metaphyseal loading implant: finite element analysis validated by a prospective DEXA investigation. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 1822-9	3.8	50
337	Precision forging processes for high-duty automotive components. <i>Journal of Materials Processing Technology</i> , 2007 , 185, 139-146	5.3	49
336	Finite element analysis of die wear in hot forging processes. <i>CIRP Annals - Manufacturing Technology</i> , 2008 , 57, 305-308	4.9	42
335	Numerical investigations on the strain-adaptive bone remodelling in the periprosthetic femur: influence of the boundary conditions. <i>BioMedical Engineering OnLine</i> , 2009 , 8, 7	4.1	39
334	Prediction of wear in hot forging tools by means of finite-element-analysis. <i>Journal of Materials Processing Technology</i> , 2005 , 167, 309-315	5.3	35
333	Manufacturing of functional elements by sheet-bulk metal forming processes. <i>Production Engineering</i> , 2016 , 10, 63-80	1.9	30
332	Automated Stamp Forming of Continuous Fiber Reinforced Thermoplastics for Complex Shell Geometries. <i>Procedia CIRP</i> , 2017 , 66, 113-118	1.8	29
331	Development of an analytical 3D-simulation model of the levelling process. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 1060-1068	5.3	27
330	Forming Sheets of Metal and Fibre-reinforced Plastics to Hybrid Parts in One Deep Drawing Process. <i>Procedia Engineering</i> , 2014 , 81, 1608-1613		26
329	Optimized plasma nitriding processes for efficient wear reduction of forging dies. <i>Archives of Civil and Mechanical Engineering</i> , 2012 , 12, 407-412	3.4	26
328	Development of a warm cross wedge rolling process using FEA and downsized experimental trials. <i>Production Engineering</i> , 2012 , 6, 339-348	1.9	26
327	Preform optimization for hot forging processes using genetic algorithms. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 89, 1623-1634	3.2	23
326	Numerical and Experimental Investigations of Multistage Sheet-Bulk Metal Forming Process with Compound Press Tools. <i>Key Engineering Materials</i> , 2015 , 651-653, 1153-1158	0.4	23

325	The potential of plasma deposition techniques in the application field of forging processes. <i>Archives of Civil and Mechanical Engineering</i> , 2012 , 12, 284-291	3.4	22
324	Advanced friction modeling for bulk metal forming processes. <i>Production Engineering</i> , 2011 , 5, 621-627	1.9	22
323	Basic study on the process combination of deposition welding and subsequent hot bulk forming. <i>Production Engineering</i> , 2013 , 7, 585-591	1.9	21
322	Experimental Test and FEA of a Sheet Metal Forming Process of Composite Material and Steel Foil in Sandwich Design Using LS-DYNA. <i>Key Engineering Materials</i> , 2015 , 651-653, 439-445	0.4	20
321	Numerical simulation of strain-adaptive bone remodelling in the ankle joint. <i>BioMedical Engineering OnLine</i> , 2011 , 10, 58	4.1	20
320	Flashless precision forging of a two-cylinder-crankshaft. <i>Production Engineering</i> , 2009 , 3, 381-389	1.9	20
319	Cross wedge rolling and bi-directional forging of preforms for crankshafts. <i>Production Engineering</i> , 2015 , 9, 61-71	1.9	19
318	Material Modelling of Short Fiber Reinforced Thermoplastic for the FEA of a Clinching Test. <i>Procedia CIRP</i> , 2014 , 18, 250-255	1.8	18
317	Hot Stamping of Load Adjusted Structural Parts. <i>Procedia Engineering</i> , 2014 , 81, 1756-1761		18
316	Characterisation of the quasi-static flow and fracture behaviour of dual-phase steel sheets in a wide range of plane stress states. <i>Archives of Civil and Mechanical Engineering</i> , 2012 , 12, 397-406	3.4	18
315	The cementless Bicontact stem in a prospective dual-energy X-ray absorptiometry study. <i>International Orthopaedics</i> , 2012 , 36, 2211-7	3.8	18
314	Influence of Superimposing of Oscillation on Sheet-Bulk Metal Forming. <i>Key Engineering Materials</i> , 2013 , 554-557, 1484-1489	0.4	18
313	Investigation of the coating thickness of plasma-transferred arc deposition welded and cross wedge rolled hybrid parts. <i>Production Engineering</i> , 2017 , 11, 255-263	1.9	17
312	Acoustic emission – a promising and challenging technique for process monitoring in sheet metal forming. <i>Journal of Manufacturing Processes</i> , 2017 , 29, 281-288	5	17
311	Metrological solutions for an adapted inspection of parts and tools of a sheet-bulk metal forming process. <i>Production Engineering</i> , 2016 , 10, 51-61	1.9	17
310	Process and tool design for precision forging of geared components. <i>International Journal of Material Forming</i> , 2009 , 2, 125-128	2	17
309	Forming and Joining of Carbon-Fiber-Reinforced Thermoplastics and Sheet Metal in One Step. <i>Procedia Engineering</i> , 2017 , 183, 227-232		16
308	Development of the heating and forming strategy in compound forging of hybrid steel-aluminum parts. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 973-978	0.9	16

307	Integrative process chain optimization using a Genetic Algorithm. <i>Production Engineering</i> , 2012 , 6, 29-37	1.9	15
306	Material Characterization for FEA of the Clinching Process of Short Fiber Reinforced Thermoplastics with an Aluminum Sheet. <i>Advanced Materials Research</i> , 2014 , 966-967, 557-568	0.5	15
305	Experimental and Numerical Investigations of the Development of Residual Stresses in Thermo-Mechanically Processed Cr-Alloyed Steel 1.3505. <i>Metals</i> , 2019 , 9, 480	2.3	14
304	Potentials of in situ monitoring of aluminum alloy forging by acoustic emission. <i>Archives of Civil and Mechanical Engineering</i> , 2016 , 16, 724-733	3.4	14
303	Reduction of wear at hot forging dies by using coating systems containing boron. <i>Production Engineering</i> , 2011 , 5, 497-506	1.9	14
302	Numerical and experimental investigations on the extension of friction and heat transfer models for an improved simulation of hot forging processes. <i>International Journal of Material Forming</i> , 2009 , 2, 121-124	2	14
301	Thixoforging of Steel Using Ceramic Tool Materials. <i>Steel Research International</i> , 2004 , 75, 561-568	1.6	14
300	Towards a definition of large scale products. <i>Production Engineering</i> , 2014 , 8, 153-164	1.9	13
299	Reprocessing of AW2007, AW6082 and AW7075 aluminium chips by using sintering and forging operations. <i>Production Engineering</i> , 2014 , 8, 443-451	1.9	13
298	Material characterization of local strain-induced Martensitic reinforcements. <i>International Journal of Material Forming</i> , 2009 , 2, 1-4	2	13
297	Complaint management using the extended 8D-method along the automotive supply chain. <i>Production Engineering</i> , 2007 , 1, 91-95	1.9	13
296	Warm forging: new forming sequence for the manufacturing of long flat pieces. <i>Production Engineering</i> , 2008 , 2, 261-268	1.9	13
295	Mechanical properties of femoral trabecular bone in dogs. <i>BioMedical Engineering OnLine</i> , 2005 , 4, 17	4.1	13
294	Manufacturing and Evaluation of Multi-Material Axial-Bearing Washers by Tailored Forming. <i>Metals</i> , 2019 , 9, 232	2.3	13
293	Preform optimization for hot forging processes using an adaptive amount of flash based on the cross section shape complexity. <i>Production Engineering</i> , 2016 , 10, 587-598	1.9	12
292	Fluid elements in machine tools. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 611-634	4.9	12
291	Production of Strong Steel-Aluminum Composites by Formation of Intermetallic Phases in Compound Forging. <i>Steel Research International</i> , 2011 , 82, 1261-1265	1.6	12
290	Development of a Hydraulic Actuator to Superimpose Oscillation in Metal-Forming Presses. <i>Key Engineering Materials</i> , 2011 , 473, 217-222	0.4	12

289	Manufacturing of Steel-Reinforced Aluminum Products by Combining Hot Extrusion and Closed-Die Forging. <i>Key Engineering Materials</i> , 2012 , 504-506, 481-486	0.4	12
288	Local Strain Hardening of Metal Components by Means of Martensite Generation. <i>Advanced Materials Research</i> , 2010 , 137, 1-33	0.5	12
287	Investigation of the joining zone displacement of cross-wedge rolled serially arranged hybrid parts. <i>International Journal of Material Forming</i> , 2020 , 13, 577-589	2	12
286	Potential of Duplex Plasma Deposition Processes for the Improvement of Wear Resistance of Hot Forging Dies. <i>Key Engineering Materials</i> , 2013 , 554-557, 345-358	0.4	11
285	FEA-Based Optimisation of a Clinching Process with a Closed Single-Part Die Aimed at Damage Minimization in CR240BH-ALSi10MnMg Joints. <i>Key Engineering Materials</i> , 2015 , 651-653, 1487-1492	0.4	11
284	Superimposed Oscillating and Non-Oscillating Ring Compression Tests for Sheet-Bulk Metal Forming Technology. <i>Applied Mechanics and Materials</i> , 2015 , 794, 89-96	0.3	11
283	Surface Modifications for Optimized Forming Operations. <i>Key Engineering Materials</i> , 2014 , 611-612, 231-239	0.3	11
282	Influence of different alloying elements on the intermetallic phase seam thickness of compound forged steel-aluminum parts. <i>Production Engineering</i> , 2011 , 5, 517-522	1.9	11
281	EcoForge: Energieeffiziente Prozesskette zur Herstellung von Hochleistungs-Schmiedebauteilen*. <i>HTM - Journal of Heat Treatment and Materials</i> , 2014 , 69, 209-219	0.7	11
280	Increasing the Efficiency of Forging Operations Using Adjusted Tribological Surfaces Enhanced by Hard Coatings. <i>Tribology Online</i> , 2016 , 11, 432-443	0.9	11
279	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
278	Investigation of a moveable flash gap in hot forging. <i>Journal of Materials Processing Technology</i> , 2016 , 231, 199-208	5.3	10
277	Development of a Combined Process of Organic Sheet forming and GMT Compression Molding. <i>Procedia Engineering</i> , 2017 , 207, 101-106		10
276	Analysis of Machine Influence on Process Stability in Sheet Bulk Metal Forming. <i>Procedia CIRP</i> , 2012 , 3, 32-36	1.8	10
275	Influence of the fabrication method on the wear resistance of hot forging dies. <i>Production Engineering</i> , 2012 , 6, 267-276	1.9	10
274	Application of tool vibration in die pressing of Ti-powder. <i>Production Engineering</i> , 2010 , 4, 545-551	1.9	10
273	Local Strain Hardening of Sheet and Solid Forming Components during Formation of Martensite in Metastable Austenitic Steels. <i>Advanced Materials Research</i> , 2007 , 22, 5-15	0.5	10
272	Manufacturing of High-Performance Bi-Metal Bevel Gears by Combined Deposition Welding and Forging. <i>Metals</i> , 2018 , 8, 898	2.3	10

271	Parametric Study of Hybrid Metal-Composites Clinching Joints. <i>Key Engineering Materials</i> , 2018 , 767, 413-420	0.4	10
270	Comparison between different numerical models of densification during solid-state sintering of pure aluminium powder. <i>Production Engineering</i> , 2015 , 9, 11-24	1.9	9
269	Acoustic emission technique for online monitoring during cold forging of steel components: a promising approach for online crack detection in metal forming processes. <i>Production Engineering</i> , 2013 , 7, 423-432	1.9	9
268	Numerical and Experimental Investigations on the Service Life Estimation for Hot-Forging Dies. <i>Key Engineering Materials</i> , 2012 , 504-506, 163-168	0.4	9
267	Manufacturing of Steel-Reinforced Aluminum Parts by Co-Extrusion and Subsequent Forging. <i>Key Engineering Materials</i> , 2013 , 585, 149-156	0.4	9
266	Multi-body simulation of a canine hind limb: model development, experimental validation and calculation of ground reaction forces. <i>BioMedical Engineering OnLine</i> , 2009 , 8, 36	4.1	9
265	Numerical investigations on the fatigue failure of forging tools due to thermo-mechanical cyclic loading. <i>International Journal of Material Forming</i> , 2010 , 3, 339-342	2	9
264	INVESTIGATION OF LOAD ADAPTED GEARS AND SHAFTS MANUFACTURED BY COMPOUND-FORGING. <i>Journal of Advanced Manufacturing Systems</i> , 2008 , 07, 175-182	1.8	9
263	Integrated computational product and production engineering for multi-material lightweight structures. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 110, 2551-2571	3.2	9
262	Advanced Wear Simulation for Bulk Metal Forming Processes. <i>MATEC Web of Conferences</i> , 2016 , 80, 04003	3	9
261	Static and oscillation superimposed ring compression tests with structured and coated tools for Sheet-Bulk Metal Forming. <i>Journal of Manufacturing Processes</i> , 2020 , 55, 78-86	5	9
260	New Multistage Sheet-Bulk Metal Forming Process Using Oscillating Tools. <i>Metals</i> , 2020 , 10, 617	2.3	8
259	Investigating the effects of cross wedge rolling preforming operation and die forging with flash brakes on forging titanium hip implants. <i>International Journal of Material Forming</i> , 2018 , 11, 67-76	2	8
258	Numerical and Experimental Determination of Cut-edge after Blanking of Thin Steel Sheet of DP1000 within Use of Stress based Damage Model. <i>Procedia Engineering</i> , 2014 , 81, 1096-1101		8
257	Development of a concept to optimize the energy efficiency in forging process chains. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013 , 14, 1229-1236	1.7	8
256	Numerical and experimental investigations of the anisotropic transformation strains during martensitic transformation in a low alloy Cr-Mo steel 42CrMo4. <i>Procedia Engineering</i> , 2017 , 207, 1815-1820		8
255	FEA-based optimisation of a clinching process with an open multiple-part die aimed at damage minimisation in CR240BH-ALSi10MnMg joints. <i>MATEC Web of Conferences</i> , 2015 , 21, 04009	0.3	8
254	Material Characterization for Sheet-Bulk Metal Forming. <i>Key Engineering Materials</i> , 2012 , 504-506, 1029-1034	0.34	8

253	A Numerical Study on Co-Extrusion to Produce Coaxial Aluminum-Steel Compounds with Longitudinal Weld Seams. <i>Metals</i> , 2018 , 8, 717	2.3	8
252	Influence of the forming angle in cross wedge rolling on the multi-directional forging of crankshafts. <i>International Journal of Material Forming</i> , 2018 , 11, 31-41	2	7
251	A new approach for user-independent determination of formability of a steel sheet sheared edge. <i>Production Engineering</i> , 2016 , 10, 241-252	1.9	7
250	Properties and Application of High-manganese TWIP-steels in Sheet Metal Forming. <i>Procedia Engineering</i> , 2014 , 81, 939-944		7
249	Bone cyst formation after ankle arthroplasty may be caused by stress shielding. A numerical simulation of the strain adaptive bone remodelling. <i>Foot</i> , 2017 , 33, 14-19	1.3	7
248	Simulation algorithm for the assessment and modification of multi-directional forging processes and tool geometries. <i>Production Engineering</i> , 2012 , 6, 187-198	1.9	7
247	Effect of temperature and strain rate on friction factor during microforming of AW-6082 AL-alloy. <i>International Journal of Material Forming</i> , 2009 , 2, 613-616	2	7
246	Compound Forging of Hybrid Powder-Solid-Parts Made of Steel and Aluminum. <i>Key Engineering Materials</i> , 2012 , 504-506, 175-180	0.4	7
245	Cross Wedge Rolling of Preforms for Crankshafts. <i>Key Engineering Materials</i> , 2012 , 504-506, 205-210	0.4	7
244	Verbundschmieden hybrider Stahl-Aluminium Bauteile. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 599-603	0.9	7
243	Consideration of Phase Transformations in Numerical Simulation of Press Hardening. <i>Steel Research International</i> , 2007 , 78, 784-790	1.6	7
242	Analysis of the friction behavior of DLC in warm bulk forming by using the ring compression test. <i>Production Engineering</i> , 2015 , 9, 41-49	1.9	6
241	Tailored Forming of Hybrid Bevel Gears with Integrated Heat Treatment. <i>Procedia Manufacturing</i> , 2020 , 47, 301-308	1.5	6
240	Influence of Tailored Surfaces and Superimposed-Oscillation on Sheet-Bulk Metal Forming Operations. <i>Journal of Manufacturing and Materials Processing</i> , 2020 , 4, 41	2.2	6
239	Investigation of the joining zone of laser welded and cross wedge rolled hybrid parts. <i>International Journal of Material Forming</i> , 2018 , 11, 829-837	2	6
238	Reprocessing of aluminum chips by hot backward extrusion. <i>Production Engineering</i> , 2016 , 10, 375-382	1.9	6
237	Numeric simulation of bone remodelling patterns after implantation of a cementless straight stem. <i>International Orthopaedics</i> , 2013 , 37, 2351-6	3.8	6
236	Formability of an anti-fingerprint clear coating on satin stainless steel sheet metal. <i>Production Engineering</i> , 2013 , 7, 275-281	1.9	6

235	Forming-induced Gloss Reduction of Coil Coated Sheets for White Goods. <i>Procedia Engineering</i> , 2017 , 183, 107-112		6
234	Contactless feeder for electrically conductive sheet metals. <i>Production Engineering</i> , 2017 , 11, 1-8	1.9	6
233	Cost-efficient fabrication of load-adapted profiles by draw bending. <i>International Journal of Material Forming</i> , 2009 , 2, 785-788	2	6
232	EcoForge: Resource-Efficient Process Chains for High Performance Parts. <i>Key Engineering Materials</i> , 2012 , 504-506, 151-156	0.4	6
231	Consideration of fundamental influence parameters for the simulation of sheet-metal forming processes by means of plastic melt pressure. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 839-843	0.9	6
230	New standardized procedure for the measurement of the static and dynamic properties of forming machines. <i>Production Engineering</i> , 2007 , 1, 31-36	1.9	6
229	Optimization of ironing processes by means of DOE and FEA. <i>Production Engineering</i> , 2007 , 1, 3-8	1.9	6
228	Flexible forming with hexapods. <i>Production Engineering</i> , 2007 , 1, 429-436	1.9	6
227	Key performance indicators for sheet metal forming processes. <i>Production Engineering</i> , 2008 , 2, 73-78	1.9	6
226	Cold Sizing of Cold- and Hot-Formed Gears. <i>CIRP Annals - Manufacturing Technology</i> , 2004 , 53, 239-242	4.9	6
225	Mechanical Properties of Co-Extruded Aluminium-Steel Compounds. <i>Key Engineering Materials</i> , 2004 , 512-519	5.1	6
224	Finite Element and Finite Volume Modelling of Friction Drilling HSLA Steel under Experimental Comparison. <i>Materials</i> , 2021 , 14,	3.5	6
223	Lateral Angular Co-Extrusion: Geometrical and Mechanical Properties of Compound Profiles. <i>Metals</i> , 2020 , 10, 1162	2.3	6
222	Tribological Study on Tailored-Formed Axial Bearing Washers. <i>Tribology Online</i> , 2018 , 13, 320-326	0.9	6
221	Wear Behavior of MoS2 Lubricant Layers During Sheet Metal Forming. <i>Procedia Engineering</i> , 2017 , 183, 357-362		5
220	Approach for modelling the Taylor-Quinney coefficient of high strength steels. <i>Procedia Manufacturing</i> , 2019 , 29, 464-471	1.5	5
219	Simulation Assisted Process Development for Tailored Forming. <i>Materials Science Forum</i> , 2019 , 949, 101-111	1.1	5
218	An adapted case-based reasoning system for design and manufacturing of tailored forming multi-material components. <i>International Journal on Interactive Design and Manufacturing</i> , 2019 , 13, 1175-1184	1.9	5

217	Extension of the Conventional Press Hardening Process by Local Material Influence to Improve Joining Ability. <i>Procedia Manufacturing</i> , 2020 , 47, 1345-1352	1.5	5
216	Investigations of the shear behaviour of aluminium alloys. <i>Production Engineering</i> , 2013 , 7, 319-328	1.9	5
215	Numerical analysis of draw bending of load-adapted sheet metal profiles. <i>Production Engineering</i> , 2013 , 7, 629-637	1.9	5
214	Basic study of incremental forming of serially arranged hybrid parts using cross-wedge rolling. <i>Procedia Engineering</i> , 2017 , 207, 1677-1682		5
213	FE-Based Design of a Forging Tool System for a Hybrid Bevel Gear. <i>Key Engineering Materials</i> , 2017 , 742, 544-551	0.4	5
212	Overview and comparison of various test methods to determine formability of a sheet metal cut-edge and approaches to the test results application in forming analysis. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015 , 46, 1196-1217	0.9	5
211	Production of Patient-Individual Hip Cups by Sheet Metal Forming: Simulation-Based Planning and Metal Forming Adapted Design Method. <i>Advanced Materials Research</i> , 2014 , 907, 253-264	0.5	5
210	Electromagnetic Sheet Metal Feeder. <i>Key Engineering Materials</i> , 2014 , 611-612, 939-946	0.4	5
209	Wear Prediction for Hot Forging Dies under Consideration of Structure Modification in the Surface Layer. <i>Advanced Materials Research</i> , 2014 , 1018, 341-348	0.5	5
208	Method to Emboss Holograms into the Surface of Sheet Metals. <i>Key Engineering Materials</i> , 2013 , 549, 125-132	0.4	5
207	A New Method of Visualization and Documentation of Parametric Information of 3D CAD Models. <i>Computer-Aided Design and Applications</i> , 2011 , 8, 435-448	1.4	5
206	Hydroforging of Thick-Walled Hollow Aluminum Profiles. <i>Key Engineering Materials</i> , 2012 , 504-506, 181-186		5
205	A New Clinching Process Especially for Thin Metal Sheets and Foils. <i>Key Engineering Materials</i> , 2012 , 504-506, 783-788	0.4	5
204	Calculation of the bursting speed of one side recessed grinding wheels. <i>Production Engineering</i> , 2007 , 1, 213-218	1.9	5
203	Multi-Layer Wear and Tool Life Calculation for Forging Applications Considering Dynamical Hardness Modeling and Nitrided Layer Degradation. <i>Materials</i> , 2020 , 14,	3.5	5
202	Advanced finite element analysis of die wear in sheet-bulk metal forming processes 2016 ,		5
201	Comparative investigation of bone mineral density using CT and DEXA in a canine femoral model. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 2667-2672	3.8	4
200	Data-Driven Compensation for Bulk Formed Parts Based on Material Point Tracking. <i>Key Engineering Materials</i> , 2019 , 794, 277-284	0.4	4

199	Investigations on Tailored Forming of AISI 52100 as Rolling Bearing Raceway. <i>Metals</i> , 2020 , 10, 1363	2.3	4
198	Numerical and Experimental Investigation of GMT Compression Molding and Fiber Displacement of UD-Tape Inserts. <i>Procedia Manufacturing</i> , 2020 , 47, 11-16	1.5	4
197	Sensitivity Analysis of Oxide Scale Influence on General Carbon Steels during Hot Forging. <i>Metals</i> , 2018 , 8, 140	2.3	4
196	Cross-wedge rolling of PTA-welded hybrid steel billets with rolling bearing steel and hard material coatings 2019 ,		4
195	Numerical Investigation of the Oxide Scale Deformation Behaviour with Consideration of Carbon Content during Hot Forging. <i>Procedia Engineering</i> , 2017 , 207, 526-531		4
194	Ermittlung von Verfahrensgrenzen für das Fügen durch Knickbauchen anhand des Werkstoffes E235+N. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015 , 46, 804-812	0.9	4
193	Fatigue analysis of a mechanical press by means of the hybrid multi-body simulation. <i>Production Engineering</i> , 2012 , 6, 421-430	1.9	4
192	New Methods to Reduce the Vibrations of the Ram and the Press Body while Blanking of Sheet Metal. <i>Key Engineering Materials</i> , 2013 , 549, 277-283	0.4	4
191	Investigation on a new process chain of deposition or friction welding and subsequent hot forging. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 783-789	0.9	4
190	Pierced forgings: tool development for a combined single step process. <i>Production Engineering</i> , 2011 , 5, 201-207	1.9	4
189	Draw Bending of Load-Adapted Sheet Metal Profiles. <i>Key Engineering Materials</i> , 2010 , 443, 152-157	0.4	4
188	Enhancing Deep Drawing Processes by Using a Thermomechanical Tool Design. <i>Key Engineering Materials</i> , 2009 , 410-411, 595-600	0.4	4
187	Transformation Induced Martensite Evolution in Metal Forming Processes of Stainless Steels. <i>Steel Research International</i> , 2004 , 75, 475-482	1.6	4
186	Verschleißreduzierung an Matrizen für das Präzisionsschmieden von Zahnradern durch Mehrlagenhartstoffbeschichtung (TiN-TiCN-TiC). <i>Materialwissenschaft Und Werkstofftechnik</i> , 2005 , 36, 218-225	0.9	4
185	Ultrasonic Evaluation of Tailored Forming Components 2020 , 300-312		4
184	Spray Cooling of Early Extracted Hot Stamped Parts 983-990		4
183	Stress-state dependent fracture characterisation and modelling of an AZ31 magnesium sheet alloy at elevated temperatures. <i>Procedia Manufacturing</i> , 2019 , 29, 450-457	1.5	3
182	Experimental investigation of a variable flash gap regarding material flow and influence of trigger forces. <i>Production Engineering</i> , 2015 , 9, 289-297	1.9	3

181	Development of a Modified Tool System for Lateral Angular Co-Extrusion to Improve the Quality of Hybrid Profiles. <i>Procedia Manufacturing</i> , 2020 , 47, 224-230	1.5	3
180	A Combined Numerical and Experimental Investigation on Deterministic Deviations in Hot Forging Processes. <i>Procedia Manufacturing</i> , 2020 , 47, 295-300	1.5	3
179	Temperature-dependent anisotropic material modeling of the sheet metal component within the polymer injection forming process. <i>Production Engineering</i> , 2014 , 8, 91-99	1.9	3
178	Economic Drive Concept for Flexible Forming Presses. <i>Key Engineering Materials</i> , 2013 , 549, 255-261	0.4	3
177	Fast 3D inverse simulation of hot forging processes via Medial Axis Transformation: an approach for preform estimation in hot die forging. <i>Production Engineering</i> , 2013 , 7, 409-416	1.9	3
176	Quality optimization for aluminum precision forging processes in completely enclosed dies of long forging parts by prediction and avoidance of thin flash generation. <i>Procedia Engineering</i> , 2017 , 207, 484-489		3
175	Creating load-adapted mechanical joints between tubes and sheets by controlling the material flow under plastically unstable tube upsetting. <i>Procedia Engineering</i> , 2017 , 207, 968-973		3
174	Validation of the FEA of a Sheet Metal Forming Process of Composite Material and Steel Foil in Sandwich Design. <i>Applied Mechanics and Materials</i> , 2015 , 794, 75-80	0.3	3
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172	Optimization of Cooling and Lubrication for Nitrided and Ceramic-Coated Hot Forging Dies. <i>Applied Mechanics and Materials</i> , 2015 , 794, 97-104	0.3	3
171	Analysis of Material Characteristics and Forging Parameters for Flashless Forged Aluminum-Matrix Composites. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 140-145	4.1	3
170	Challenges in Compound Forging of Steel-Aluminum Parts 2012 , 169-176		3
169	Stud welding within sheet metal working tools. <i>Production Engineering</i> , 2011 , 5, 283-292	1.9	3
168	Vergleichende experimentelle und numerische Untersuchungen zum schwingungsberlagerten Pressen zweier Pulvermaterialien. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 705-711	0.9	3
167	Development and application of magnetic magnesium for data storage in gentelligent products. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1134-1136	2.8	3
166	Characterization of Horizontal Loads in the Production of Asymmetrical Parts. <i>Key Engineering Materials</i> , 2011 , 473, 223-228	0.4	3
165	Process-Machine Interaction in Sheet-Bulk Metal Forming. <i>Key Engineering Materials</i> , 2012 , 504-506, 999-1004	0.4	3
164	Efficient control of metal-forming machines with an automated load and measurement device. <i>Production Engineering</i> , 2010 , 4, 95-100	1.9	3

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161	Problems with ultrasonic measurements of shear modules of structured media. <i>Acta Biomaterialia</i> , 2007 , 3, 723-33	10.8	3
160	Oscillation overlaid shearing of sheet. <i>Production Engineering</i> , 2007 , 1, 19-24	1.9	3
159	Anwendung dynamischer Kräfte in der Werkstoffprüfung (Application of Dynamic Forces in Materials Testing). <i>TM Technisches Messen</i> , 2006 , 73, 646-654	0.7	3
158	Spray Cooling of Early Extracted Hot Stamped Parts 2014 , 983-990		3
157	Energy-efficient Drive Concepts in Metal-forming Production. <i>Procedia CIRP</i> , 2016 , 50, 707-712	1.8	3
156	Design and manufacturing of a human standardised hip cup out of titanium. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016 , 47, 608-622	0.9	3
155	'Pre-launch' finite element analysis of a short-stem total hip arthroplasty system consisting of two implant types. <i>Clinical Biomechanics</i> , 2019 , 61, 31-37	2.2	3
154	Simulation-based digital twin for the manufacturing of thermoplastic composites. <i>Procedia CIRP</i> , 2021 , 100, 1-6	1.8	3
153	Potential of process information transfer along the process chain of hybrid components for process monitoring of the cutting process. <i>Production Engineering</i> , 2021 , 15, 199-209	1.9	3
152	Challenges in the Forging of Steel-Aluminum Bearing Bushings. <i>Materials</i> , 2021 , 14,	3.5	3
151	Forming and Oxidation Behavior During Forging with Consideration of Carbon Content of Steel. <i>Metals</i> , 2018 , 8, 996	2.3	3
150	Influence of the cross section area reduction in cross wedge rolling on the multi-directional forging of crankshafts. <i>Advances in Materials and Processing Technologies</i> , 2017 , 3, 286-299	0.8	2
149	Steigerung der Verschleißbeständigkeit von Schmiedegeselenken durch PVD-abgeschiedene Hartstoffschichten auf Titanbasis. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2017 , 81, 1-12	0.8	2
148	Experimental and numerical characterization method for forming behavior of thermoplastics reinforced with woven fabrics. <i>Procedia Manufacturing</i> , 2019 , 29, 443-449	1.5	2
147	Wear behavior of selectively oxidized Fe_2O_3 oxide low-friction layer systems on PM tool steel surfaces. <i>Wear</i> , 2019 , 426-427, 1603-1615	3.5	2
146	Alternative Temperature Control of Closed Forging Dies Using Heat Pipes. <i>Key Engineering Materials</i> , 2015 , 651-653, 311-316	0.4	2

145	Microstructural Evolution and Mechanical Properties of Hybrid Bevel Gears Manufactured by Tailored Forming. <i>Metals</i> , 2020 , 10, 1365	2.3	2
144	FE-based Layer Design of Deposition-Welded Semi-finished Parts for the Production of Hybrid Bevel Gear. <i>Procedia Manufacturing</i> , 2020 , 47, 309-314	1.5	2
143	Casting Manufacturing of Cylindrical Preforms Made of Low Alloy Steels. <i>Procedia Manufacturing</i> , 2020 , 47, 445-449	1.5	2
142	Development of a predictive simulation method for thin flash generation in flashless precision forging processes of aluminum parts using FEA and experiments. <i>Production Engineering</i> , 2018 , 12, 419-429	1.9	2
141	Investigation into the bond strength of the joining zone of compound forged hybrid aluminium-steel bearing bushing 2019 ,		2
140	Deposition welding of hot forging dies using nanoparticle reinforced weld metal. <i>Production Engineering</i> , 2014 , 8, 645-658	1.9	2
139	Potentials of Ceramic Die Materials for Isothermal Forging Purposes of a Titanium Alloy. <i>Key Engineering Materials</i> , 2014 , 611-612, 202-211	0.4	2
138	Thixoforging of particle-reinforced steel materials. <i>Production Engineering</i> , 2014 , 8, 335-343	1.9	2
137	Functionalisation of PM components by integration of inherent data carriers and sensory elements. <i>Production Engineering</i> , 2013 , 7, 123-129	1.9	2
136	Conception of a hot forging die out of metal powder equipped with inner cooling channels. <i>Powder Metallurgy</i> , 2015 , 58, 166-170	1.9	2
135	Power-Split Press Drive for Economic Production. <i>Applied Mechanics and Materials</i> , 2015 , 794, 435-441	0.3	2
134	Model Based Optimization of Forging Process Chains under the Consideration of Penalty Functions. <i>Advanced Materials Research</i> , 2014 , 1018, 533-538	0.5	2
133	Application of methods for ecological optimization of crank shaft forging process. <i>Production Engineering</i> , 2014 , 8, 253-261	1.9	2
132	Erhöhung der Berechnungsgenauigkeit bei der numerischen Abbildung von Warmmassivumformprozessen durch verbesserte Reibmodellierung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 839-850	0.9	2
131	Combined forging and punching of long pieces. <i>International Journal of Material Forming</i> , 2012 , 5, 301-306		2
130	Numerische und experimentelle Untersuchungen zum Matrizenpressen und Sintern von Aluminiumpulver. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 511-519	0.9	2
129	Untersuchung des Fließverhaltens der Magnesiumknetlegierung AZ31 mit Hilfe von Schichtstauch- und Zugversuchen. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 760-767	0.9	2
128	Process principle for the production of sintered dynamic component-inherent data storage. <i>Production Engineering</i> , 2011 , 5, 233-240	1.9	2

127	Low Temperature Sheet Forming 2011 ,		2
126	Forging complex parts without flash 2011 ,		2
125	Forging of Aluminium Components under a Superimposed Hydrostatic Pressure to Induce Local Strain Hardening. <i>Advanced Materials Research</i> , 2010 , 137, 191-217	0.5	2
124	Effect of transient change in strain rate on plastic flow behaviour of Al-Zn-Mg-Cu alloy at elevated temperatures. <i>International Journal of Material Forming</i> , 2010 , 3, 355-358	2	2
123	Local Strain-Hardening in Sheet Metal and Forging Components. <i>Steel Research International</i> , 2008 , 79, 165-171	1.6	2
122	Hydro-mechanical Deep Drawing of Rolled Magnesium Sheets. <i>Steel Research International</i> , 2005 , 76, 930-934	1.6	2
121	Influence of Dwell Time and Pressure on SPS Process with Titanium Aluminides. <i>Metals</i> , 2022 , 12, 83	2.3	2
120	Characterization of Molybdenum Based Coatings on 100Cr6 Bearing Steel Surfaces. <i>Tribology Online</i> , 2020 , 15, 181-185	0.9	2
119	Electromagnetic Feeding Device for Conductive Material 2019 , 262-269		2
118	Evaluation of AW-6082 Aluminium Bar Shearing Simulation. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 142-149	0.4	2
117	Experimental investigations on the interactions between the process parameters of hot forming and the resulting residual stresses in the component. <i>Procedia Manufacturing</i> , 2020 , 50, 706-712	1.5	2
116	Numerical investigations regarding a novel process chain for the production of a hybrid bearing bushing. <i>Production Engineering</i> , 2020 , 14, 569-581	1.9	2
115	Investigations on Residual Stresses within Hot-Bulk-Formed Components Using Process Simulation and the Contour Method. <i>Metals</i> , 2021 , 11, 566	2.3	2
114	Further Development of Wear Calculation and Wear Reduction in Cold Forging Processes. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 36	2.2	2
113	Computational Manufacturing for Multi-Material Lightweight Parts. <i>Procedia CIRP</i> , 2019 , 85, 102-107	1.8	2
112	Numerical and Experimental Investigation of Thermoplastics in Multi-Axis Forming Processes. <i>Procedia CIRP</i> , 2019 , 85, 96-101	1.8	2
111	Design of a genetic algorithm to preform optimization for hot forging processes. <i>International Journal of Material Forming</i> , 2020 , 13, 77-89	2	2
110	FE-simulation of hot forging with an integrated heat treatment with the objective of residual stress prediction 2018 ,		2

109	Heated gripper concept to optimize heat transfer of fiber-reinforced-thermoplastics in automated thermoforming processes. <i>Procedia CIRP</i> , 2019 , 79, 331-336	1.8	1
108	Investigation of the Prediction Accuracy of a Finite Element Analysis Model for the Coating Thickness in Cross-Wedge Rolled Coaxial Hybrid Parts. <i>Materials</i> , 2019 , 12,	3.5	1
107	DEVELOPMENT AND NUMERICAL VALIDATION OF COMBINED FORMING PROCESSES FOR PRODUCTION OF HYBRID PARTS. <i>Zukunftstechnologien Fu r Den Multifunktionalen Leichtbau</i> , 2019 , 29-39	0.2	1
106	Joining by Upset Bulging at Elevated Temperatures. <i>Advanced Materials Research</i> , 2016 , 1140, 115-122	0.5	1
105	Mechanical and Thermal Influences on Microstructural and Mechanical Properties during Process-Integrated Thermomechanically Controlled Forging of Tempering Steel AISI 4140. <i>Materials</i> , 2020 , 13,	3.5	1
104	Production, Bonding and Application of Metal Matrix Composite Hot Forging Tool Components. <i>Procedia Manufacturing</i> , 2020 , 47, 329-334	1.5	1
103	Investigation of the Influence of an Oscillation Superposition on the Wear Behaviour in an Industrial-like Process. <i>Procedia Manufacturing</i> , 2020 , 47, 315-320	1.5	1
102	Process routes for die forging of hybrid bevel gears and bearing bushings 2017 ,		1
101	Experimental investigation of different parameters at a combined cross wedge rolling and multi-directional forging process. <i>Production Engineering</i> , 2018 , 12, 35-43	1.9	1
100	3D CAD modeling of deep drawing tools based on a new graphical language. <i>Computer-Aided Design and Applications</i> , 2018 , 15, 619-630	1.4	1
99	Electromagnetic System to Improve the Manufacturing Accuracy at the Presence of Horizontal Process Forces. <i>Advanced Materials Research</i> , 2016 , 1140, 369-376	0.5	1
98	Process-Integrated Projection Welding during Deep Drawing. <i>Advanced Materials Research</i> , 2016 , 1140, 59-66	0.5	1
97	Characterizing the buckling behavior of cylindrical hollow and hybrid specimens by experimental upsetting tests. <i>Production Engineering</i> , 2013 , 7, 167-176	1.9	1
96	Analysis of an aluminum forging process in completely enclosed dies considering the numerical prediction of thin flash generation in small gaps. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 3429-3435	1.6	1
95	Experimental Investigations and Automatic Numerical Optimization of a Bulk Metal Forming Process to Avoid Forging Folds. <i>Key Engineering Materials</i> , 2015 , 651-653, 305-310	0.4	1
94	Numerische Betrachtung der biomechanischen Komplikationen begleitend zur Totalhftgelenkprothese: Knochenumbau und Prothesenmigration. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015 , 46, 881-893	0.9	1
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92	Development of an innovative monitoring system for spray fields in hot forging processes. <i>Production Engineering</i> , 2012 , 6, 439-447	1.9	1

91	Development of an advanced micro-positioning system for increasing operation accuracy: consideration of high pressure sealing. <i>Production Engineering</i> , 2012 , 6, 213-218	1.9	1
90	Manufacturing Method of PM Components with Integrated Information Storage. <i>Applied Mechanics and Materials</i> , 2010 , 44-47, 915-919	0.3	1
89	Flexible Draw Bending of Profiles. <i>Key Engineering Materials</i> , 2009 , 410-411, 565-570	0.4	1
88	Modification of the Mechanical Anisotropy in Extruded AZ31 Sheets. <i>Key Engineering Materials</i> , 2011 , 473, 490-497	0.4	1
87	Determination of the load on profiled roller guide rails used as ram guides for metal-forming machines. <i>Production Engineering</i> , 2007 , 1, 45-49	1.9	1
86	Numerical Calculation of Tool Wear in Industrial Cold Forming Processes Using the Further Development of Wear Modelling. <i>Lecture Notes in Production Engineering</i> , 2021 , 535-552	0	1
85	Prozessketten für Kurbelwellen biologisch gestalten. <i>ZWF Zeitschrift fuer Wirtschaftlichen Fabrikbetrieb</i> , 2013 , 108, 224-228	0.5	1
84	Innovativer Ansatz zur effizienten Stadienplanung. <i>ZWF Zeitschrift fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 668-672	0.5	1
83	Investigation of the influence of the forming process and finishing processes on the properties of the surface and subsurface of hybrid components. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	1
82	Shearing of Aluminium Rods for the Production of Billets for Bulk Metal Forming Operations. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 133-141	0.4	1
81	The Customized Artificial Hip Cup: Design and Manufacturing of an Innovative Prosthesis. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2015 , 55-68	0.3	1
80	Präzisionsschmieden 2014 , 15-51		1
79	Blechumformung. <i>VDI-Buch</i> , 2016 , 251-454	0.1	1
78	Electrical resistance-based fatigue assessment and capability prediction of extrudates from recycled field-assisted sintered EN AW-6082 aluminium chips. <i>Materials Characterization</i> , 2020 , 169, 110644	2.9	1
77	Local Strain Hardening of Massive Forming Components by Means of Martensite Generation	317-324	1
76	Fracture modelling of magnesium sheet alloy AZ31 for deep drawing processes at elevated temperatures. <i>Procedia Manufacturing</i> , 2020 , 50, 739-743	1.5	1
75	Tailoring Soft Local Zones in Quenched Blanks of the Steel 22MnB5 by Partial Pre-cooling with Compressed Air. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 4379-4389	1.6	1
74	Characterization and Modeling of Intermetallic Phase Formation during the Joining of Aluminum and Steel in Analogy to Co-Extrusion. <i>Metals</i> , 2020 , 10, 1582	2.3	1

73	Fringe Projection Profilometry in Production Metrology: A Multi-Scale Comparison in Sheet-Bulk Metal Forming. <i>Sensors</i> , 2021 , 21,	3.8	1
72	Characterization and Modeling of Nano Wear for Molybdenum-Based Lubrication Layer Systems. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
71	Increasing the energy absorption of monolithic manganese boron steels in oxygen-free environment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1157, 012021	0.4	1
70	An Experimental-Numerical Method to Determine the Plastic Work Converted into Heat Applied on AHSS. <i>Advanced Materials Research</i> , 2016 , 1140, 51-58	0.5	1
69	Influence of heat pipe cooling on the wear of hot forging dies. <i>Production Engineering</i> , 2016 , 10, 599-606	1.9	1
68	Application of self-piercing nuts during hot forming of 22MNB5. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019 , 63, 565-574	1.9	1
67	Enhancement of the interface of friction welded steel-aluminium joints. <i>Production Engineering</i> , 2021 , 15, 169-176	1.9	1
66	Contact Geometry Modification of Friction-Welded Semi-Finished Products to Improve the Bonding of Hybrid Components. <i>Metals</i> , 2021 , 11, 115	2.3	1
65	Experimental and Numerical Investigations on the Development and Stability of Residual Stresses Arising from Hot Forming Processes. <i>Minerals, Metals and Materials Series</i> , 2021 , 2289-2301	0.3	1
64	Influence of degree of deformation on welding pore reduction in high-carbon steels. <i>Production Engineering</i> , 2021 , 15, 161-168	1.9	1
63	A design concept of active cooling for tailored forming workpieces during induction heating. <i>Production Engineering</i> , 2021 , 15, 177-186	1.9	1
62	On the analysis of microstructural residual stresses in hot bulk forming parts under specific cooling. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800256	0.2	1
61	Experimental Investigation of Endogenous Lubrication during Cold Upsetting of Sintered Powder Metallurgical Components. <i>Key Engineering Materials</i> , 2018 , 767, 163-170	0.4	1
60	Improving Hole Expansion Ratio by Parameter Adjustment in Abrasive Water Jet Operations for DP800. <i>SAE International Journal of Materials and Manufacturing</i> , 2018 , 11, 241-252	1	1
59	Investigation of masking concepts for influencing the austenitization process during press hardening. <i>Procedia Manufacturing</i> , 2018 , 15, 1095-1102	1.5	1
58	Wear investigation of selective γ -Fe ₂ O ₃ oxide layers generated on surfaces for dry sheet metal forming. <i>Procedia Manufacturing</i> , 2018 , 15, 923-930	1.5	1
57	Perspectives on data-driven models and its potentials in metal forming and blanking technologies. <i>Production Engineering</i> , ¹	1.9	1
56	Numerical Simulation of the Abrasive Wear Behavior of Selectively Oxidized γ -Fe ₂ O ₃ Oxide Layers on Tool Steel Surfaces. <i>Jom</i> , 2020 , 72, 2536-2547	2.1	0

55	Investigation of Simulation Parameters for Flash-Reduced Forging of Two-Cylinder Crankshafts. <i>Steel Research International</i> , 2016 , 87, 824-828	1.6	o
54	Predicting Forming Forces and Lack of Volume with Data Mining Methods for a Flange Forging Process. <i>International Journal of Modeling and Optimization</i> , 2017 , 7, 363-369	0.9	o
53	Numerical Modelling of Bond Strength in Overmoulded Thermoplastic Composites. <i>Journal of Composites Science</i> , 2021 , 5, 164	3	o
52	Graphical Modelling of a Meta-Model of CAD Models for Deep Drawing Tools. <i>Incosse International Symposium</i> , 2016 , 26, 1090-1104	0.4	o
51	Process chain for the manufacture of hybrid bearing bushings. <i>Production Engineering</i> , 2021 , 15, 137-150	1.9	o
50	Validation of Automatically Generated Forging Sequences by Using FE Simulations. <i>Minerals, Metals and Materials Series</i> , 2021 , 2867-2881	0.3	o
49	Finite element modelling of the canine and feline outer ear canal: benefits for local drug delivery?. <i>Berliner Und Munchener Tierarztliche Wochenschrift</i> , 2011 , 124, 78-82		o
48	Investigation of the material combination 20MnCr5 and X45CrSi9-3 in the Tailored Forming of shafts with bearing seats. <i>Production Engineering</i> , 1	1.9	o
47	Functionality Investigations of Dry-Lubricated Molybdenum Trioxide Cylindrical Roller Thrust Bearings. <i>Coatings</i> , 2022 , 12, 591	2.9	o
46	Femoral Postoperative Bone Adaptation [Numerical Calculation and Clinical Validation with DEXA Investigations. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 3-15	0.4	
45	Investigation of the required clamping force at multidirectional undercut-forging. <i>Production Engineering</i> , 2018 , 12, 501-515	1.9	
44	Modeling of an aluminum melting process using constructive polynomial functions. <i>Production Engineering</i> , 2018 , 12, 679-689	1.9	
43	A method to detect the level and direction of mechanical forces with the aid of load-induced martensitic phase transformation. <i>Production Engineering</i> , 2014 , 8, 63-72	1.9	
42	Local Heat Treatment in Draw Bending for Profiles of Manganese Boron Steel 22MnB5. <i>Procedia Engineering</i> , 2017 , 183, 31-36		
41	Fertigung einer universellen HTP-Prothesenpfanne mittels Hochdruckblechumformung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015 , 46, 894-910	0.9	
40	Induktive Erwärmung von partikelverstärkten Stahlpresslingen in den thixotropen Temperaturbereich. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014 , 45, 177-186	0.9	
39	Numerische Berechnung des Verschleißes an der Dornwalze eines Ringwalzprozesses in Abhängigkeit prozessrelevanter Parameter. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014 , 45, 591-599	0.9	
38	Structural bonding without the need for adhesive processing?. <i>Adhesion Adhesives and Sealants</i> , 2011 , 8, 35-38	0.3	

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36	Investigation of the Mechanical Behavior of a PU-Based Coil-Coating System with the Help of Indentation and FE Analysis. <i>Key Engineering Materials</i> , 2009 , 410-411, 217-224	0.4
35	A forming process for the increase of β -martensite growth-rate under mechanical load. <i>Production Engineering</i> , 2009 , 3, 57-62	1.9
34	Cooling and lubrication of automated forging processes with high-pressure systems. <i>International Journal of Material Forming</i> , 2010 , 3, 331-334	2
33	Additional forming elements for a local reinforcement in deep drawn parts. <i>International Journal of Material Forming</i> , 2010 , 3, 825-828	2
32	Production of Structure Components with Selective Properties by means of Action Media based Cold Forming. <i>Steel Research International</i> , 2008 , 79, 233-239	1.6
31	Experimentelle und numerische Untersuchungen zur Kennzeichnung von Sinterteilen mittels gezielt eingebrachter Fremdpartikel. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2007 , 38, 816-820	0.9
30	Numerical Modelling and Analysis of Ductile Crack Propagation in Blanking Process Using Modified Nodal Release Method. <i>Key Engineering Materials</i> , 2007 , 344, 201-208	0.4
29	Selective Strain Hardening of Structure Components by Action Media Based Cold Massive Forming. <i>Advanced Materials Research</i> , 2007 , 22, 57-65	0.5
28	Analytische Ziehkraftberechnung nach dem "Prinzip der virtuellen Arbeit". <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2005 , 69, 132-136	0.8
27	Umformende Herstellung der Batterieunterschale. <i>Zukunftstechnologien Fu r Den Multifunktionalen Leichtbau</i> , 2020 , 89-101	0.2
26	Materialcharakterisierung des Organoblechs. <i>Zukunftstechnologien Fu r Den Multifunktionalen Leichtbau</i> , 2020 , 57-65	0.2
25	Analysis of Horizontal Loads in Sheet-Bulk Metal Forming and Their Consideration in Simulation. <i>Lecture Notes in Production Engineering</i> , 2021 , 263-285	0
24	Superimposed Oscillation. <i>Lecture Notes in Production Engineering</i> , 2021 , 515-534	0
23	Dynamic Process Forces. <i>Lecture Notes in Production Engineering</i> , 2021 , 102-126	0
22	Numerical Process Design for Compound Forging of Powder [Metallurgical and Solid Dissimilar Workpieces 2019 , 324-332	
21	Effect of Manganese on Nitriding and Softening Behaviour of Steel AISI H10 Under Cyclic Thermal Loads 2019 , 423-432	
20	Bauteilherstellung. <i>Zukunftstechnologien Fu r Den Multifunktionalen Leichtbau</i> , 2020 , 137-150	0.2

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