

Bernd-Arno Behrens

List of Publications by Year in Descending Order

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

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	Influence of Dwell Time and Pressure on SPS Process with Titanium Aluminides. <i>Metals</i> , 2022 , 12, 83	2.3	2
341	Clinching of inductively heated aluminum die casting. <i>Production Engineering</i> , 2022 , 16, 223	1.9	
340	Functionality Investigations of Dry-Lubricated Molybdenum Trioxide Cylindrical Roller Thrust Bearings. <i>Coatings</i> , 2022 , 12, 591	2.9	0
339	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	
338	Superimposed Oscillation. <i>Lecture Notes in Production Engineering</i> , 2021 , 515-534	0	
337	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
336	Dynamic Process Forces. <i>Lecture Notes in Production Engineering</i> , 2021 , 102-126	0	
335	Finite Element and Finite Volume Modelling of Friction Drilling HSLA Steel under Experimental Comparison. <i>Materials</i> , 2021 , 14,	3.5	6
334	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
333	Fringe Projection Profilometry in Production Metrology: A Multi-Scale Comparison in Sheet-Bulk Metal Forming. <i>Sensors</i> , 2021 , 21,	3.8	1
332	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
331	Characterization and Modeling of Nano Wear for Molybdenum-Based Lubrication Layer Systems. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
330	Numerical Modelling of Bond Strength in Overmoulded Thermoplastic Composites. <i>Journal of Composites Science</i> , 2021 , 5, 164	3	0
329	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
328	Enhancement of the interface of friction welded steel-aluminium joints. <i>Production Engineering</i> , 2021 , 15, 169-176	1.9	1
327	Simulation-based digital twin for the manufacturing of thermoplastic composites. <i>Procedia CIRP</i> , 2021 , 100, 1-6	1.8	3
326	The Effects of Press Ram Vibrations on the Production Quality. <i>Minerals, Metals and Materials Series</i> , 2021 , 2609-2618	0.3	

325	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
324	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
323	Influence of degree of deformation on welding pore reduction in high-carbon steels. <i>Production Engineering</i> , 2021 , 15, 161-168	1.9	1
322	A design concept of active cooling for tailored forming workpieces during induction heating. <i>Production Engineering</i> , 2021 , 15, 177-186	1.9	1
321	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
320	Development of a numerical compensation framework for geometrical deviations in bulk metal forming exploiting a surrogate model and computed compatible stresses. <i>International Journal of Material Forming</i> , 2021 , 14, 901-916	2	
319	Challenges in the Forging of Steel-Aluminum Bearing Bushings. <i>Materials</i> , 2021 , 14,	3.5	3
318	Process chain for the manufacture of hybrid bearing bushings. <i>Production Engineering</i> , 2021 , 15, 137-150	1.9	0
317	Investigations of hot-dip galvanized dual-phase steel (DP600+Z) sheet metal on selectively oxidized tool steel surfaces under dry deep-drawing conditions. <i>Wear</i> , 2021 , 484-485, 203742	3.5	
316	Validation of Automatically Generated Forging Sequences by Using FE Simulations. <i>Minerals, Metals and Materials Series</i> , 2021 , 2867-2881	0.3	0
315	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
314	Microstructural Evolution and Mechanical Properties of Hybrid Bevel Gears Manufactured by Tailored Forming. <i>Metals</i> , 2020 , 10, 1365	2.3	2
313	Investigations on Tailored Forming of AISI 52100 as Rolling Bearing Raceway. <i>Metals</i> , 2020 , 10, 1363	2.3	4
312	Numerical Simulation of the Abrasive Wear Behavior of Selectively Oxidized α -Fe ₂ O ₃ Oxide Layers on Tool Steel Surfaces. <i>Jom</i> , 2020 , 72, 2536-2547	2.1	0
311	Tailored Forming of Hybrid Bevel Gears with Integrated Heat Treatment. <i>Procedia Manufacturing</i> , 2020 , 47, 301-308	1.5	6
310	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
309	Production, Bonding and Application of Metal Matrix Composite Hot Forging Tool Components. <i>Procedia Manufacturing</i> , 2020 , 47, 329-334	1.5	1
308	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

307	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
306	Casting Manufacturing of Cylindrical Preforms Made of Low Alloy Steels. <i>Procedia Manufacturing</i> , 2020 , 47, 445-449	1.5	2
305	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
304	New Multistage Sheet-Bulk Metal Forming Process Using Oscillating Tools. <i>Metals</i> , 2020 , 10, 617	2.3	8
303	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
302	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
301	A Combined Numerical and Experimental Investigation on Deterministic Deviations in Hot Forging Processes. <i>Procedia Manufacturing</i> , 2020 , 47, 295-300	1.5	3
300	Umformende Herstellung der Batterieunterschale. <i>Zukunftstechnologien Fu r Den Multifunktionalen Leichtbau</i> , 2020 , 89-101	0.2	
299	Materialcharakterisierung des Organoblechs. <i>Zukunftstechnologien Fu r Den Multifunktionalen Leichtbau</i> , 2020 , 57-65	0.2	
298	Characterization of Molybdenum Based Coatings on 100Cr6 Bearing Steel Surfaces. <i>Tribology Online</i> , 2020 , 15, 181-185	0.9	2
297	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
296	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
295	Bauteilherstellung. <i>Zukunftstechnologien Fu r Den Multifunktionalen Leichtbau</i> , 2020 , 137-150	0.2	
294	Experimental and Numerical Investigations on the Combined Forming Behaviour of DX51 and Fibre Reinforced Thermoplastics Under Deep Drawing Conditions. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2020 , 123-146	0.3	
293	Ultrasonic Evaluation of Tailored Forming Components 2020 , 300-312		4
292	Evaluation of AW-6082 Aluminium Bar Shearing Simulation. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 142-149	0.4	2
291	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	2.0	1
290	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

289	Investigations of the Influence of a Superimposed Oscillation on the Fatigue Strength. <i>Metals</i> , 2020 , 10, 1274	2.3	
288	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
287	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
286	Lateral Angular Co-Extrusion: Geometrical and Mechanical Properties of Compound Profiles. <i>Metals</i> , 2020 , 10, 1162	2.3	6
285	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
284	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
283	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
282	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
281	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
280	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
279	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
278	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
277	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
276	Approach for modelling the Taylor-Quinney coefficient of high strength steels. <i>Procedia Manufacturing</i> , 2019 , 29, 464-471	1.5	5
275	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
274	Simulation Assisted Process Development for Tailored Forming. <i>Materials Science Forum</i> , 2019 , 949, 1011-1015	1.1	5
273	Femoral Postoperative Bone Adaptation [Numerical Calculation and Clinical Validation with DEXA Investigations. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 3-15	0.4	
272	Data-Driven Compensation for Bulk Formed Parts Based on Material Point Tracking. <i>Key Engineering Materials</i> , 2019 , 794, 277-284	0.4	4

271	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
270	Wear behavior of selectively oxidized Fe ₂ O ₃ oxide low-friction layer systems on PM tool steel surfaces. <i>Wear</i> , 2019 , 426-427, 1603-1615	3.5	2
269	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 ⁵	1.9	5
268	DEVELOPMENT AND NUMERICAL VALIDATION OF COMBINED FORMING PROCESSES FOR PRODUCTION OF HYBRID PARTS. <i>Zukunftstechnologien Fu r Den Multifunktionalen Leichtbau</i> , 2019 , 29-39 ²	3.2	1
267	Cross-wedge rolling of PTA-welded hybrid steel billets with rolling bearing steel and hard material coatings 2019 ,		4
266	Investigation into the bond strength of the joining zone of compound forged hybrid aluminium-steel bearing bushing 2019 ,		2
265	Numerical Process Design for Compound Forging of Powder Metallurgical and Solid Dissimilar Workpieces 2019 , 324-332		
264	Effect of Manganese on Nitriding and Softening Behaviour of Steel AISI H10 Under Cyclic Thermal Loads 2019 , 423-432		
263	Electromagnetic Feeding Device for Conductive Material 2019 , 262-269		2
262	Manufacturing and Evaluation of Multi-Material Axial-Bearing Washers by Tailored Forming. <i>Metals</i> , 2019 , 9, 232	2.3	13
261	Computational Manufacturing for Multi-Material Lightweight Parts. <i>Procedia CIRP</i> , 2019 , 85, 102-107	1.8	2
260	Numerical and Experimental Investigation of Thermoplastics in Multi-Axis Forming Processes. <i>Procedia CIRP</i> , 2019 , 85, 96-101	1.8	2
259	Numerical analysis of residual stresses on microscale and mesoscale in hot bulk forming parts under specific cooling. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900017	0.2	
258	'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
257	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
256	Experimental and Numerical Investigations on the Material Behaviour of Fibre-Reinforced Plastics and Steel for a Multi-material Compound Production 2019 , 218-227		
255	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
254	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

253	Investigation of the required clamping force at multidirectional undercut-forging. <i>Production Engineering</i> , 2018 , 12, 501-515	1.9	
252	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
251	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
250	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
249	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
248	Sensitivity Analysis of Oxide Scale Influence on General Carbon Steels during Hot Forging. <i>Metals</i> , 2018 , 8, 140	2.3	4
247	Modeling of an aluminum melting process using constructive polynomial functions. <i>Production Engineering</i> , 2018 , 12, 679-689	1.9	
246	Innovativer Ansatz zur effizienten Stadienplanung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 668-672	0.5	1
245	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
244	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
243	Forming and Oxidation Behavior During Forging with Consideration of Carbon Content of Steel. <i>Metals</i> , 2018 , 8, 996	2.3	3
242	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
241	Manufacturing of High-Performance Bi-Metal Bevel Gears by Combined Deposition Welding and Forging. <i>Metals</i> , 2018 , 8, 898	2.3	10
240	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
239	Investigation of masking concepts for influencing the austenitization process during press hardening. <i>Procedia Manufacturing</i> , 2018 , 15, 1095-1102	1.5	1
238	Wear investigation of selective Fe_2O_3 oxide layers generated on surfaces for dry sheet metal forming. <i>Procedia Manufacturing</i> , 2018 , 15, 923-930	1.5	1
237	Parametric Study of Hybrid Metal-Composites Clinching Joints. <i>Key Engineering Materials</i> , 2018 , 767, 413-420	0.4	10
236	Tribological Study on Tailored-Formed Axial Bearing Washers. <i>Tribology Online</i> , 2018 , 13, 320-326	0.9	6

235	FE-simulation of hot forging with an integrated heat treatment with the objective of residual stress prediction 2018 ,		2
234	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
233	Steigerung der Verschleißbeständigkeit von Schmiedegeselen durch PVD-abgeschiedene Hartstoffschichten auf Titanbasis. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2017 , 81, 1-12	0.8	2
232	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
231	Forming and Joining of Carbon-Fiber-Reinforced Thermoplastics and Sheet Metal in One Step. <i>Procedia Engineering</i> , 2017 , 183, 227-232		16
230	Hot stamping of ultra-high strength steel parts. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 755-779		175
229	Wear Behavior of MoS ₂ Lubricant Layers During Sheet Metal Forming. <i>Procedia Engineering</i> , 2017 , 183, 357-362		5
228	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
227	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
226	Process routes for die forging of hybrid bevel gears and bearing bushings 2017 ,		1
225	Fluid elements in machine tools. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 611-634	4.9	12
224	Automated Stamp Forming of Continuous Fiber Reinforced Thermoplastics for Complex Shell Geometries. <i>Procedia CIRP</i> , 2017 , 66, 113-118	1.8	29
223	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
222	Forming-induced Gloss Reduction of Coil Coated Sheets for White Goods. <i>Procedia Engineering</i> , 2017 , 183, 107-112		6
221	Local Heat Treatment in Draw Bending for Profiles of Manganese Boron Steel 22MnB5. <i>Procedia Engineering</i> , 2017 , 183, 31-36		
220	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
219	Contactless feeder for electrically conductive sheet metals. <i>Production Engineering</i> , 2017 , 11, 1-8	1.9	6
218	Preform optimization for hot forging processes using genetic algorithms. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 89, 1623-1634	3.2	23

217	Development of a Combined Process of Organic Sheet forming and GMT Compression Molding. <i>Procedia Engineering, 2017, 207, 101-106</i>		10
216	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, 2017, 207, 484-489</i>		3
215	Numerical Investigation of the Oxide Scale Deformation Behaviour with Consideration of Carbon Content during Hot Forging. <i>Procedia Engineering, 2017, 207, 526-531</i>		4
214	Creating load-adapted mechanical joints between tubes and sheets by controlling the material flow under plastically unstable tube upsetting. <i>Procedia Engineering, 2017, 207, 968-973</i>		3
213	Basic study of incremental forming of serially arranged hybrid parts using cross-wedge rolling. <i>Procedia Engineering, 2017, 207, 1677-1682</i>		5
212	Numerical and experimental investigations of the anisotropic transformation strains during martensitic transformation in a low alloy Cr-Mo steel 42CrMo4. <i>Procedia Engineering, 2017, 207, 1815-1820</i>		8
211	FE-Based Design of a Forging Tool System for a Hybrid Bevel Gear. <i>Key Engineering Materials, 2017, 742, 544-551</i>	0.4	5
210	Predicting Forming Forces and Lack of Volume with Data Mining Methods for a Flange Forging Process. <i>International Journal of Modeling and Optimization, 2017, 7, 363-369</i>	0.9	0
209	Joining by Upset Bulging at Elevated Temperatures. <i>Advanced Materials Research, 2016, 1140, 115-122</i>	0.5	1
208	A new approach for user-independent determination of formability of a steel sheet sheared edge. <i>Production Engineering, 2016, 10, 241-252</i>	1.9	7
207	Electromagnetic System to Improve the Manufacturing Accuracy at the Presence of Horizontal Process Forces. <i>Advanced Materials Research, 2016, 1140, 369-376</i>	0.5	1
206	Preform optimization for hot forging processes using an adaptive amount of flash based on the cross section shape complexity. <i>Production Engineering, 2016, 10, 587-598</i>	1.9	12
205	Process-Integrated Projection Welding during Deep Drawing. <i>Advanced Materials Research, 2016, 1140, 59-66</i>	0.5	1
204	Investigation of Simulation Parameters for Flash-Reduced Forging of Two-Cylinder Crankshafts. <i>Steel Research International, 2016, 87, 824-828</i>	1.6	0
203	Reprocessing of aluminum chips by hot backward extrusion. <i>Production Engineering, 2016, 10, 375-382</i>	1.9	6
202	Metrological solutions for an adapted inspection of parts and tools of a sheet-bulk metal forming process. <i>Production Engineering, 2016, 10, 51-61</i>	1.9	17
201	Potentials of in situ monitoring of aluminum alloy forging by acoustic emission. <i>Archives of Civil and Mechanical Engineering, 2016, 16, 724-733</i>	3.4	14
200	Investigations of ductile damage during the process chains of toothed functional components manufactured by sheet-bulk metal forming. <i>Production Engineering, 2016, 10, 5-15</i>	1.9	10

199	Manufacturing of functional elements by sheet-bulk metal forming processes. <i>Production Engineering</i> , 2016 , 10, 63-80	1.9	30
198	Investigation of a moveable flash gap in hot forging. <i>Journal of Materials Processing Technology</i> , 2016 , 231, 199-208	5.3	10
197	Blechumformung. <i>VDI-Buch</i> , 2016 , 251-454	0.1	1
196	Schneidmaschine zur Erhöhung der Bauteilqualität. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2016 , 111, 727-730	0.5	
195	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
194	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
193	Advanced Wear Simulation for Bulk Metal Forming Processes. <i>MATEC Web of Conferences</i> , 2016 , 80, 04003	0.3	9
192	Advanced finite element analysis of die wear in sheet-bulk metal forming processes 2016 ,		5
191	A New Approach to Compensate Oscillations of Path-Linked Presses Caused by Inertial Forces. <i>Advanced Materials Research</i> , 2016 , 1140, 361-368	0.5	
190	Energy-efficient Drive Concepts in Metal-forming Production. <i>Procedia CIRP</i> , 2016 , 50, 707-712	1.8	3
189	Graphical Modelling of a Meta-Model of CAD Models for Deep Drawing Tools. <i>Incosse International Symposium</i> , 2016 , 26, 1090-1104	0.4	0
188	Influence of heat pipe cooling on the wear of hot forging dies. <i>Production Engineering</i> , 2016 , 10, 599-606	1.9	1
187	Design and manufacturing of a human standardised hip cup out of titanium. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016 , 47, 608-622	0.9	3
186	Cross wedge rolling and bi-directional forging of preforms for crankshafts. <i>Production Engineering</i> , 2015 , 9, 61-71	1.9	19
185	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
184	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
183	Alternative Temperature Control of Closed Forging Dies Using Heat Pipes. <i>Key Engineering Materials</i> , 2015 , 651-653, 311-316	0.4	2
182	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

181	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
180	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
179	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
178	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
177	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
176	Power-Split Press Drive for Economic Production. <i>Applied Mechanics and Materials</i> , 2015 , 794, 435-441	0.3	2
175	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
174	Numerische Betrachtung der biomechanischen Komplikationen begleitend zur Totalhüftgelenkprothese: Knochenumbau und Prothesenmigration. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015 , 46, 881-893	0.9	1
173	Fertigung einer universellen Hüftprothesenpfanne mittels Hochdruckblechumformung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015 , 46, 894-910	0.9	
172	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
171	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
170	Implementation of the Bai & Wierzbicki fracture criterion in QForm and its application for cold metal forming and deep drawing technology. <i>MATEC Web of Conferences</i> , 2015 , 21, 12009	0.3	3
169	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
168	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
167	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
166	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
165	Process-Integrated Heat Treatment of Hot Forged Components 2015 , 421-425		
164	Dämpfung der Stößelschwingungen beim Scherschneiden. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2015 , 110, 18-22	0.5	

163	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	
162	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
161	Towards a definition of large scale products. <i>Production Engineering</i> , 2014 , 8, 153-164	1.9	13
160	Deposition welding of hot forging dies using nanoparticle reinforced weld metal. <i>Production Engineering</i> , 2014 , 8, 645-658	1.9	2
159	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
158	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
157	Properties and Application of High-manganese TWIP-steels in Sheet Metal Forming. <i>Procedia Engineering</i> , 2014 , 81, 939-944		7
156	Thixoforging of particle-reinforced steel materials. <i>Production Engineering</i> , 2014 , 8, 335-343	1.9	2
155	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
154	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
153	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
152	Surface Modifications for Optimized Forming Operations. <i>Key Engineering Materials</i> , 2014 , 611-612, 231-239	2.3	11
151	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
150	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
149	Induktive Erwärmung von partikelverstärkten Stahlpresslingen in den thixotropen Temperaturbereich. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014 , 45, 177-186	0.9	
148	Numerische Berechnung des Verschleißes an der Dornwalze eines Ringwalzprozesses in Abhängigkeit prozessrelevanter Parameter. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014 , 45, 591-599	0.9	
147	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
146	Electromagnetic Sheet Metal Feeder. <i>Key Engineering Materials</i> , 2014 , 611-612, 939-946	0.4	5

145	Numerical and Experimental Investigations on Fold Formation in Forged Parts. <i>Key Engineering Materials</i> , 2014 , 611-612, 212-220	0.4	1
144	Hot Stamping of Load Adjusted Structural Parts. <i>Procedia Engineering</i> , 2014 , 81, 1756-1761		18
143	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
142	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
141	Application of methods for ecological optimization of crank shaft forging process. <i>Production Engineering</i> , 2014 , 8, 253-261	1.9	2
140	EcoForge: Energieeffiziente Prozesskette zur Herstellung von Hochleistungs-Schmiedebauteilen*. <i>HTM - Journal of Heat Treatment and Materials</i> , 2014 , 69, 209-219	0.7	11
139	Spray Cooling of Early Extracted Hot Stamped Parts 2014 , 983-990		3
138	Präzisionsschmieden 2014 , 15-51		1
137	Energieeffizienzsteigerung und Schmelzprozessoptimierung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014 , 109, 332-335	0.5	
136	Economic Drive Concept for Flexible Forming Presses. <i>Key Engineering Materials</i> , 2013 , 549, 255-261	0.4	3
135	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
134	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
133	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
132	Numeric simulation of bone remodelling patterns after implantation of a cementless straight stem. <i>International Orthopaedics</i> , 2013 , 37, 2351-6	3.8	6
131	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
130	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
129	Formability of an anti-fingerprint clear coating on satin stainless steel sheet metal. <i>Production Engineering</i> , 2013 , 7, 275-281	1.9	6
128	Investigations of the shear behaviour of aluminium alloys. <i>Production Engineering</i> , 2013 , 7, 319-328	1.9	5

127	Functionalisation of PM components by integration of inherent data carriers and sensory elements. <i>Production Engineering</i> , 2013 , 7, 123-129	1.9	2
126	Numerical analysis of draw bending of load-adapted sheet metal profiles. <i>Production Engineering</i> , 2013 , 7, 629-637	1.9	5
125	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
124	Method to Emboss Holograms into the Surface of Sheet Metals. <i>Key Engineering Materials</i> , 2013 , 549, 125-132	0.4	5
123	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
122	Influence of Superimposing of Oscillation on Sheet-Bulk Metal Forming. <i>Key Engineering Materials</i> , 2013 , 554-557, 1484-1489	0.4	18
121	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
120	Untersuchung des Fließverhaltens der Magnesiumknetlegierung AZ31 mit Hilfe von Schichtstauch- und Zugversuchen. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 760-767	0.9	2
119	Manufacturing of Steel-Reinforced Aluminum Parts by Co-Extrusion and Subsequent Forging. <i>Key Engineering Materials</i> , 2013 , 585, 149-156	0.4	9
118	Prozessketten für Kurbelwellen biologisch gestalten. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2013 , 108, 224-228	0.5	1
117	Verkettete Prozessauslegung für das Gesenkschmieden. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2013 , 108, 837-840	0.5	
116	Integrative process chain optimization using a Genetic Algorithm. <i>Production Engineering</i> , 2012 , 6, 29-37	1.9	15
115	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
114	Bulk forming of sheet metal. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 725-745	4.9	257
113	Erhöhung der Berechnungsgenauigkeit bei der numerischen Abbildung von Warmmassivumformprozessen durch verbesserte Reibmodellierung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 839-850	0.9	2
112	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
111	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
110	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

109	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
108	Analysis of Machine Influence on Process Stability in Sheet Bulk Metal Forming. <i>Procedia CIRP</i> , 2012 , 3, 32-36	1.8	10
107	Combined forging and punching of long pieces. <i>International Journal of Material Forming</i> , 2012 , 5, 301-306	0.6	2
106	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
105	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
104	Development of an innovative monitoring system for spray fields in hot forging processes. <i>Production Engineering</i> , 2012 , 6, 439-447	1.9	1
103	The cementless Bicontact stem in a prospective dual-energy X-ray absorptiometry study. <i>International Orthopaedics</i> , 2012 , 36, 2211-7	3.8	18
102	Challenges in Compound Forging of Steel-Aluminum Parts 2012 , 169-176		3
101	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
100	Numerische und experimentelle Untersuchungen zum Matrizenpressen und Sintern von Aluminiumpulver. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 511-519	0.9	2
99	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
98	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
97	Influence of the fabrication method on the wear resistance of hot forging dies. <i>Production Engineering</i> , 2012 , 6, 267-276	1.9	10
96	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
95	Process-Machine Interaction in Sheet-Bulk Metal Forming. <i>Key Engineering Materials</i> , 2012 , 504-506, 999-1004	0.4	3
94	Hydroforging of Thick-Walled Hollow Aluminum Profiles. <i>Key Engineering Materials</i> , 2012 , 504-506, 181-186	0.4	5
93	EcoForge: Resource-Efficient Process Chains for High Performance Parts. <i>Key Engineering Materials</i> , 2012 , 504-506, 151-156	0.4	6
92	A New Clinching Process Especially for Thin Metal Sheets and Foils. <i>Key Engineering Materials</i> , 2012 , 504-506, 783-788	0.4	5

91	Cross Wedge Rolling of Preforms for Crankshafts. <i>Key Engineering Materials</i> , 2012 , 504-506, 205-210	0.4	7
90	Material Characterization for Sheet-Bulk Metal Forming. <i>Key Engineering Materials</i> , 2012 , 504-506, 1029-1034	0.3	8
89	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
88	Structural bonding without the need for adhesive processing?. <i>Adhesion Adhesives and Sealants</i> , 2011 , 8, 35-38	0.3	
87	EXPERIMENTAL AND NUMERICAL INVESTIGATION ON MANUFACTURING METHODS OF POWDER METALLURGY COMPONENTS WITH INTEGRATED INFORMATION STORAGE. <i>Journal of Advanced Manufacturing Systems</i> , 2011 , 10, 11-20	1.8	
86	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
85	Pierced forgings: tool development for a combined single step process. <i>Production Engineering</i> , 2011 , 5, 201-207	1.9	4
84	Process principle for the production of sintered dynamic component-inherent data storage. <i>Production Engineering</i> , 2011 , 5, 233-240	1.9	2
83	Stud welding within sheet metal working tools. <i>Production Engineering</i> , 2011 , 5, 283-292	1.9	3
82	Reduction of wear at hot forging dies by using coating systems containing boron. <i>Production Engineering</i> , 2011 , 5, 497-506	1.9	14
81	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
80	Advanced friction modeling for bulk metal forming processes. <i>Production Engineering</i> , 2011 , 5, 621-627	1.9	22
79	Numerical simulation of strain-adaptive bone remodelling in the ankle joint. <i>BioMedical Engineering OnLine</i> , 2011 , 10, 58	4.1	20
78	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
77	Vergleichende experimentelle und numerische Untersuchungen zum schwingungsüberlagerten Pressen zweier Pulvermaterialien. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 705-711	0.9	3
76	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
75	Development of a Hydraulic Actuator to Superimpose Oscillation in Metal-Forming Presses. <i>Key Engineering Materials</i> , 2011 , 473, 217-222	0.4	12
74	Modification of the Mechanical Anisotropy in Extruded AZ31 Sheets. <i>Key Engineering Materials</i> , 2011 , 473, 490-497	0.4	1

73	Characterization of Horizontal Loads in the Production of Asymmetrical Parts. <i>Key Engineering Materials</i> , 2011 , 473, 223-228	0.4	3
72	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
71	Low Temperature Sheet Forming 2011 ,		2
70	Forging complex parts without flash 2011 ,		2
69	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		0
68	Manufacturing Method of PM Components with Integrated Information Storage. <i>Applied Mechanics and Materials</i> , 2010 , 44-47, 915-919	0.3	1
67	Draw Bending of Load-Adapted Sheet Metal Profiles. <i>Key Engineering Materials</i> , 2010 , 443, 152-157	0.4	4
66	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
65	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
64	Local Strain Hardening of Metal Components by Means of Martensite Generation. <i>Advanced Materials Research</i> , 2010 , 137, 1-33	0.5	12
63	Cooling and lubrication of automated forging processes with high-pressure systems. <i>International Journal of Material Forming</i> , 2010 , 3, 331-334	2	
62	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
61	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
60	Additional forming elements for a local reinforcement in deep drawn parts. <i>International Journal of Material Forming</i> , 2010 , 3, 825-828	2	
59	Efficient control of metal-forming machines with an automated load and measurement device. <i>Production Engineering</i> , 2010 , 4, 95-100	1.9	3
58	Application of tool vibration in die pressing of Ti-powder. <i>Production Engineering</i> , 2010 , 4, 545-551	1.9	10
57	Numerical analysis of the process chain for the production of PM components with integrated information storage. <i>Production Engineering</i> , 2010 , 4, 477-482	1.9	3
56	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

55	Handbuch Umformtechnik 2010 ,		96
54	Enhancing Deep Drawing Processes by Using a Thermomechanical Tool Design. <i>Key Engineering Materials</i> , 2009 , 410-411, 595-600	0.4	4
53	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	
52	Flexible Draw Bending of Profiles. <i>Key Engineering Materials</i> , 2009 , 410-411, 565-570	0.4	1
51	A forming process for the increase of β -martensite growth-rate under mechanical load. <i>Production Engineering</i> , 2009 , 3, 57-62	1.9	
50	Flashless precision forging of a two-cylinder-crankshaft. <i>Production Engineering</i> , 2009 , 3, 381-389	1.9	20
49	Material characterization of local strain-induced β -martensitic reinforcements. <i>International Journal of Material Forming</i> , 2009 , 2, 1-4	2	13
48	Cost-efficient fabrication of load-adapted profiles by draw bending. <i>International Journal of Material Forming</i> , 2009 , 2, 785-788	2	6
47	Process and tool design for precision forging of geared components. <i>International Journal of Material Forming</i> , 2009 , 2, 125-128	2	17
46	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
45	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
44	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
43	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
42	Finite Element Analysis of Bone Remodeling after Hip Resurfacing Arthroplasty. <i>IFMBE Proceedings</i> , 2009 , 2288-2291	0.2	
41	Experimental and numerical analysis of marking approach for sintered light alloy components. <i>Powder Metallurgy</i> , 2008 , 51, 277-282	1.9	3
40	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
39	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	
38	Local Strain-Hardening in Sheet Metal and Forging Components. <i>Steel Research International</i> , 2008 , 79, 165-171	1.6	2

37	Finite element analysis of die wear in hot forging processes. <i>CIRP Annals - Manufacturing Technology</i> , 2008 , 57, 305-308	4.9	42
36	Key performance indicators for sheet metal forming processes. <i>Production Engineering</i> , 2008 , 2, 73-78	1.9	6
35	Warm forging: new forming sequence for the manufacturing of long flat pieces. <i>Production Engineering</i> , 2008 , 2, 261-268	1.9	13
34	Verbundschmieden hybrider Stahl-Aluminium Bauteile. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 599-603	0.9	7
33	Experimentelle und numerische Untersuchungen zur Kennzeichnung von Sinterteilen mittels gezielt eingebrachter Fremdpartikel. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2007 , 38, 816-820	0.9	
32	Problems with ultrasonic measurements of shear modules of structured media. <i>Acta Biomaterialia</i> , 2007 , 3, 723-33	10.8	3
31	Precision forging processes for high-duty automotive components. <i>Journal of Materials Processing Technology</i> , 2007 , 185, 139-146	5.3	49
30	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
29	Oscillation overlaid shearing of sheet. <i>Production Engineering</i> , 2007 , 1, 19-24	1.9	3
28	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
27	Optimization of ironing processes by means of DOE and FEA. <i>Production Engineering</i> , 2007 , 1, 3-8	1.9	6
26	Complaint management using the extended 8D-method along the automotive supply chain. <i>Production Engineering</i> , 2007 , 1, 91-95	1.9	13
25	Calculation of the bursting speed of one side recessed grinding wheels. <i>Production Engineering</i> , 2007 , 1, 213-218	1.9	5
24	Flexible forming with hexapods. <i>Production Engineering</i> , 2007 , 1, 429-436	1.9	6
23	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
22	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	
21	Selective Strain Hardening of Structure Components by Action Media Based Cold Massive Forming. <i>Advanced Materials Research</i> , 2007 , 22, 57-65	0.5	
20	Consideration of Phase Transformations in Numerical Simulation of Press Hardening. <i>Steel Research International</i> , 2007 , 78, 784-790	1.6	7

19	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
18	Mechanical properties of femoral trabecular bone in dogs. <i>BioMedical Engineering OnLine</i> , 2005 , 4, 17	4.1	13
17	Hydro-mechanical Deep Drawing of Rolled Magnesium Sheets. <i>Steel Research International</i> , 2005 , 76, 930-934	1.6	2
16	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
15	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
14	Analytische Ziehkraftberechnung nach dem Prinzip der virtuellen Arbeit?. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2005 , 69, 132-136	0.8	
13	Cold Sizing of Cold- and Hot-Formed Gears. <i>CIRP Annals - Manufacturing Technology</i> , 2004 , 53, 239-242	4.9	6
12	Transformation Induced Martensite Evolution in Metal Forming Processes of Stainless Steels. <i>Steel Research International</i> , 2004 , 75, 475-482	1.6	4
11	Thixoforging of Steel Using Ceramic Tool Materials. <i>Steel Research International</i> , 2004 , 75, 561-568	1.6	14
10	Mechanical Properties of Co-Extruded Aluminium-Steel Compounds. <i>Key Engineering Materials</i> , 2004 , 242, 512-519	5.1	6
9	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> , 2004 , 24, 1	3.2	1
8	Local Strain Hardening of Massive Forming Components by Means of Martensite Generation	3.17-324	1
7	Manufacturing Methods and Properties of Powder-Based Parts with Inherently Saved Information	211-218	
6	Numerische Prozessauslegung zur gezielten Eigenspannungseinstellung in warmmassivumgeformten Bauteilen unter Berücksichtigung von Makro- und Mikroskala. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2004 , 68, 1	0.8	
5	Investigation of the Influence of a Superimposed Oscillated Forming Process on Forming Characteristics. <i>Key Engineering Materials</i> , 2004 , 242, 181-186	0.4	
4	Spray Cooling of Early Extracted Hot Stamped Parts	983-990	4
3	Investigation of the material combination 20MnCr5 and X45CrSi9-3 in the Tailored Forming of shafts with bearing seats. <i>Production Engineering</i> , 2004 , 1, 1	1.9	0
2	Perspectives on data-driven models and its potentials in metal forming and blanking technologies. <i>Production Engineering</i> , 2004 , 1, 1	1.9	1

1	Material dependent surface and subsurface properties of hybrid components. <i>Production Engineering</i> ,1	1.9
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