

A Erman Tekkaya

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.

463
papers

9,014
citations

41
h-index

82
g-index

506
ext. papers

10,345
ext. citations

2.5
avg, IF

6.59
L-index

#	Paper	IF	Citations
463	Analytical model of the in-plane torsion test. <i>Acta Mechanica</i> , 2022 , 233, 641	2.1	0
462	ADAPT DA Diversely Applicable Parameter Identification Tool: Overview and full-field application examples. <i>International Journal of Mechanical Sciences</i> , 2022 , 213, 106840	5.5	1
461	Extending the potentials of draw-forging. <i>International Journal of Material Forming</i> , 2022 , 15, 1	2	
460	Influence of mechanical characterization on the prediction of necking issues during sheet flow forming process. <i>Journal of Materials Processing Technology</i> , 2022 , 117620	5.3	0
459	A control strategy for incremental profile forming. <i>Journal of Manufacturing Processes</i> , 2022 , 79, 142-153		
458	Superposing tensile stresses into single point incremental forming to affect martensitic transformation of SS304. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022 , 1238, 012085	0.4	
457	Warping and springback reduction in bending of U-profiles through partial heating over the cross-section. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022 , 1238, 012015	0.4	
456	Development of a Hot Cutting Process for Functional Parts by Stress State-Dependent Damage Modeling. <i>Minerals, Metals and Materials Series</i> , 2022 , 511-521	0.3	
455	Effect of Process Parameters on Wavy Interfacial Morphology During Magnetic Pulse Welding. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2021 , 143,	3.3	3
454	Introduction of Composite Hot Extrusion with Tubular Reinforcements for Subsequent Cold Forging. <i>Lecture Notes in Production Engineering</i> , 2021 , 193-201	0	
453	Analysis of Path-Dependent Damage and Microstructure Evolution for Numerical Analysis of Sheet-Bulk Metal Forming Processes. <i>Lecture Notes in Production Engineering</i> , 2021 , 378-411	0	
452	Incremental Sheet-Bulk Metal Forming by Application of Thermal-Controlled Grading Mechanisms. <i>Lecture Notes in Production Engineering</i> , 2021 , 493-514	0	
451	Remote Lab to Illustrate the Influence of Process Parameters on Product Properties in Additive Manufacturing. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 456-464	0.4	
450	Increasing the Lightweight Potential of Composite Cold Forging by Utilizing Magnesium and Granular Cores. <i>Metals</i> , 2021 , 11, 32	2.3	0
449	Fundamental Research and Process Development for the Manufacturing of Load-Optimized Parts by Incremental Sheet-Bulk Metal Forming. <i>Lecture Notes in Production Engineering</i> , 2021 , 53-77	0	1
448	Adjusting residual stresses by flexible stress superposition in incremental sheet metal forming. <i>Archive of Applied Mechanics</i> , 2021 , 91, 3489-3499	2.2	2
447	Gezielte Steuerung der Bauteileigenspannungen durch inkrementelle Blechumformung. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2021 , 85, 807	0.8	

446	Analysis of Proximity Consequences of Coil Windings in Electromagnetic Forming. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 45	2.2	0
445	Targeted residual stress generation in single and two point incremental sheet forming (ISF). <i>Archive of Applied Mechanics</i> , 2021 , 91, 3465-3487	2.2	1
444	Application of an Advanced Friction Model in Hot Stamping Simulations: A Numerical and Experimental Investigation of an A-Pillar Reinforcement Panel from Volvo Cars. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1157, 012020	0.4	1
443	Reduction of Warping in Kinematic L-Profile Bending Using Local Heating. <i>Metals</i> , 2021 , 11, 1146	2.3	1
442	Strain path dependency in incremental sheet-bulk metal forming. <i>International Journal of Material Forming</i> , 2021 , 14, 547-561	2	7
441	Coin minting by additive manufacturing and forming. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2021 , 235, 819-828	2.4	4
440	Investigation of evolving yield surfaces of dual-phase steels. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116314	5.3	20
439	Methods for measuring large shear strains in in-plane torsion tests. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116516	5.3	14
438	Experimental Analysis on Granular Media-Based Tube Forming with Active Axial Feed. <i>Minerals, Metals and Materials Series</i> , 2021 , 2661-2670	0.3	
437	Estimation and Prevention of Strain Localization in Shear Tests. <i>Minerals, Metals and Materials Series</i> , 2021 , 691-707	0.3	0
436	Cyclic Loading Tests Based on the In-Plane Torsion Test for Sheet Metal. <i>Minerals, Metals and Materials Series</i> , 2021 , 635-645	0.3	
435	Metal Forming. <i>Springer Handbooks</i> , 2021 , 357-408	1.3	
434	Welding of Aluminium in Chip Extrusion. <i>Minerals, Metals and Materials Series</i> , 2021 , 139-147	0.3	
433	Novel Roll-Bonded Stainless Steel/Boron-Steel Multilayer Under Hot Stamping Conditions. <i>Minerals, Metals and Materials Series</i> , 2021 , 2683-2694	0.3	
432	Control-Oriented Characterization of Product Properties during Hot Hole-Flanging of X46Cr13 Sheet Material in a Progressive-Die. <i>Metals</i> , 2021 , 11, 349	2.3	
431	Force reduction by electrical assistance in incremental sheet-bulk metal forming of gears. <i>Journal of Materials Processing Technology</i> , 2021 , 296, 117194	5.3	2
430	Large strain flow curve identification for sheet metals under complex stress states. <i>Mechanics of Materials</i> , 2021 , 161, 103997	3.3	3
429	Engineering education amid a global pandemic. <i>Advances in Industrial and Manufacturing Engineering</i> , 2021 , 3, 100058	1.8	7

428	Large strain flow curves of sheet metals by sheet extrusion. <i>CIRP Annals - Manufacturing Technology</i> , 2021 , 70, 247-250	4.9	0
427	Introduction of a New Method for Continuous Aluminum Hot Extrusion. <i>Minerals, Metals and Materials Series</i> , 2021 , 1021-1032	0.3	0
426	Combined Computed Tomography and Numerical Modeling for the Analysis of Bending of Additively Manufactured Cellular Sheets. <i>Minerals, Metals and Materials Series</i> , 2021 , 2099-2113	0.3	
425	Strain hardening under large deformation for AA5182. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012030	0.4	
424	Characterization of plasticity and fracture of an QP1180 steel sheet. <i>Procedia Manufacturing</i> , 2020 , 50, 529-534	1.5	1
423	Process-oriented Flow Curve Determination at Mechanical Joining. <i>Procedia Manufacturing</i> , 2020 , 47, 368-374	1.5	6
422	Prediction of Ductile Damage in the Process Chain of Caliber Rolling and Forward Rod Extrusion. <i>Procedia Manufacturing</i> , 2020 , 47, 649-655	1.5	3
421	Joining by die-less hydroforming with outer pressurization. <i>Journal of Advanced Joining Processes</i> , 2020 , 1, 100014	2.1	0
420	Adiabatic blanking of advanced high-strength steels. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 269-272	4.9	9
419	Distortion and Dilution Behavior for Laser Metal Deposition onto Thin Sheet Metals. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020 , 7, 625-634	3.8	8
418	Analysis of incremental die bending of wires and tubes. <i>Production Engineering</i> , 2020 , 14, 265-274	1.9	0
417	Development of a Remote Compression Test Lab for Engineering Education. <i>Lecture Notes in Networks and Systems</i> , 2020 , 496-505	0.5	2
416	Influence of anisotropic damage evolution on cold forging. <i>Production Engineering</i> , 2020 , 14, 115-121	1.9	
415	Joining dissimilar thin-walled tubes by Magnetic Pulse Welding. <i>Journal of Materials Processing Technology</i> , 2020 , 279, 116562	5.3	17
414	Micro-magnetic damage characterization of bent and cold forged parts. <i>Production Engineering</i> , 2020 , 14, 77-85	1.9	4
413	Prediction and analysis of damage evolution during caliber rolling and subsequent cold forward extrusion. <i>Production Engineering</i> , 2020 , 14, 33-41	1.9	6
412	Characterization of damage in forward rod extruded parts. <i>International Journal of Material Forming</i> , 2020 , 13, 1003-1014	2	8
411	Damage-induced performance variations of cold forged parts. <i>Journal of Materials Processing Technology</i> , 2020 , 279, 116556	5.3	10

410	On mesh dependencies in finite-element-based damage prediction: application to sheet metal bending. <i>Production Engineering</i> , 2020 , 14, 123-134	1.9	6
409	Interaction of Process Parameters, Forming Mechanisms, and Residual Stresses in Single Point Incremental Forming. <i>Metals</i> , 2020 , 10, 656	2.3	9
408	Damage in metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 600-623	4.9	24
407	A quick model for demonstrating high speed forming capabilities. <i>Mechanics Research Communications</i> , 2020 , 108, 103579	2.2	2
406	Experimental and Numerical Analysis of the Influence of Burst Pressure Distribution on Rapid Free Sheet Forming by Vaporizing Foil Actuators. <i>Metals</i> , 2020 , 10, 845	2.3	2
405	Lightweight in Automotive Components by Forming Technology. <i>Automotive Innovation</i> , 2020 , 3, 195-209	2.7	27
404	Magnetic Field Measurements during Magnetic Pulse Welding Using CMR-B-Scalar Sensors. <i>Sensors</i> , 2020 , 20,	3.8	5
403	Novel Approach and Interpretation for the Determination of Electromagnetic Forming Limits. <i>Materials</i> , 2020 , 13,	3.5	2
402	Interface Formation during Collision Welding of Aluminum. <i>Metals</i> , 2020 , 10, 1202	2.3	5
401	Particle Ejection by Jetting and Related Effects in Impact Welding Processes. <i>Metals</i> , 2020 , 10, 1108	2.3	10
400	Hybrid Additive Manufacturing of Collector Coins. <i>Journal of Manufacturing and Materials Processing</i> , 2020 , 4, 115	2.2	2
399	Analytical process design for interference-fit joining of rectangular profiles. <i>Journal of Materials Processing Technology</i> , 2020 , 276, 116391	5.3	2
398	Developments in composite extrusion of complex profiles for automotive applications. <i>Materials Today: Proceedings</i> , 2019 , 10, 217-225	1.4	2
397	Influence of tool path strategies on the residual stress development in single point incremental forming. <i>Procedia Manufacturing</i> , 2019 , 29, 53-58	1.5	6
396	Simulation approach for three-point plastic bending of additively manufactured Hastelloy X sheets. <i>Procedia Manufacturing</i> , 2019 , 34, 475-481	1.5	6
395	Manufacturing of hybrid gears by incremental sheet-bulk metal forming. <i>Procedia Manufacturing</i> , 2019 , 27, 152-157	1.5	6
394	Properties of Components with Incrementally Formed Gears. <i>Metals</i> , 2019 , 9, 515	2.3	3
393	Thermal Effects in Dissimilar Magnetic Pulse Welding. <i>Metals</i> , 2019 , 9, 348	2.3	12

392	Stress State Analysis of Radial Stress Superposed Bending. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019 , 20, 53-66	1.7	6
391	Thermomechanical behavior of shape memory alloy metal matrix composite actuator manufactured by composite extrusion. <i>Smart Materials and Structures</i> , 2019 , 28, 055022	3.4	2
390	Global and High-Resolution Damage Quantification in Dual-Phase Steel Bending Samples with Varying Stress States. <i>Metals</i> , 2019 , 9, 319	2.3	19
389	Forming properties of additively manufactured monolithic Hastelloy X sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 753, 300-316	5.3	20
388	Analysis of the Influence of Fibers on the Formability of Metal Blanks in Manufacturing Processes for Fiber Metal Laminates. <i>Journal of Manufacturing and Materials Processing</i> , 2019 , 3, 2	2.2	8
387	Simultaneous deep drawing and cold forging of multi-material components: Draw-forging. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 269-272	4.9	12
386	Experimental study on the magnetic pulse welding process of large aluminum tubes on steel rods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012033	0.4	4
385	Flow curves up to high strains considering load reversal and damage. <i>International Journal of Material Forming</i> , 2019 , 12, 955-972	2	17
384	Investigation of martensite-transformation and forming properties of additively reinforced 22MnB5 sheet metals 2019 ,		1
383	Effect of plastic strain and ductile damage on elastic modulus of multiphase steel and its impact on springback prediction 2019 ,		2
382	Stress State Control by a Novel Bending Process and its Effect on Damage and Product Performance. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019 , 141,	3.3	2
381	Effect of the wall thickness on the forming behavior and welding result during magnetic pulse welding. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019 , 50, 883-892	0.9	3
380	Influence of SMA-induced stress on shape memory alloy metal matrix composites manufactured by continuous composite extrusion. <i>Smart Materials and Structures</i> , 2019 , 28, 084006	3.4	2
379	Predicting weld-quality in direct hot extrusion of aluminium chips. <i>Journal of Materials Processing Technology</i> , 2019 , 274, 116294	5.3	12
378	Magnetic pulse welding of tubular parts 2019 ,		2
377	Manufacturing of reinforced profiles by means of combined continuous and discontinuous composite extrusion. <i>Materials Today: Proceedings</i> , 2019 , 10, 201-208	1.4	1
376	Load Optimisation for Air Bending in the Context of Damage Reduction. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900179	0.2	
375	Bending (Tubes, Profiles) 2019 , 131-140		

374	Influence of the preheating strategy on the deep drawing of extruded magnesium alloy ME20 sheets. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 651, 012067	0.4	3
373	Novel roll stand for flexible profile bending. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 651, 012076	0.4	
372	Analytical and experimental bond strength investigation of cold forged composite shafts. <i>Journal of Materials Processing Technology</i> , 2019 , 264, 190-199	5.3	5
371	Light enough or go lighter?. <i>Materials and Design</i> , 2019 , 163, 107545	8.1	4
370	Forming mechanisms-related residual stress development in single point incremental forming. <i>Production Engineering</i> , 2019 , 13, 149-156	1.9	7
369	Analytical prediction of wall thickness reduction and forming forces during the radial indentation process in Incremental Profile Forming. <i>Journal of Materials Processing Technology</i> , 2019 , 267, 68-79	5.3	5
368	Bending moment in incremental tube forming. <i>International Journal of Material Forming</i> , 2019 , 12, 113-122		2
367	On the reduction of the gloss property of organic coated sheet metal after forming. <i>Production Engineering</i> , 2018 , 12, 1-8	1.9	1
366	Combination technology of deep drawing and back-moulding for plastic/metal hybrid components. <i>Journal of Polymer Engineering</i> , 2018 , 38, 583-589	1.4	
365	Influence of manufacturing processes on material characterization with the grooved in-plane torsion test. <i>International Journal of Mechanical Sciences</i> , 2018 , 146-147, 544-555	5.5	15
364	Mechanisms for controlling springback and strength in heat-assisted sheet forming. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 273-276	4.9	6
363	Energy saving by manufacturing technology. <i>Procedia Manufacturing</i> , 2018 , 21, 392-396	1.5	3
362	Material characterization for plane and curved sheets using the in-plane torsion test [An overview]. <i>Journal of Materials Processing Technology</i> , 2018 , 257, 278-287	5.3	14
361	Local forming of gears by indentation of sheets. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018 , 232, 838-847	2.4	7
360	Experimental and analytical investigation of the force requirements in shear cutting of metal-polymer-metal composites. <i>International Journal of Material Forming</i> , 2018 , 11, 213-224	2	1
359	Experimental and numerical investigations of wire bending by linear winding of rectangular tooth coils 2018 ,		3
358	Mechanics of the reciprocal effects of bending and torsion during 3D bending of profiles. <i>Journal of Materials Processing Technology</i> , 2018 , 262, 650-659	5.3	5
357	Damage Mechanisms and Mechanical Properties of High-Strength Multiphase Steels. <i>Materials</i> , 2018 , 11,	3.5	31

356	Joining by Die-Less Hydroforming of Profiles with Oval Cross Section. <i>Key Engineering Materials</i> , 2018 , 767, 405-412	0.4	5
355	Design of process parameters for the incremental tube forming (ITF) by FEM to control product properties 2018 ,		1
354	Analysis of residual stress state in sheet metal parts processed by single point incremental forming 2018 ,		4
353	Improved failure prediction in forming simulations through pre-strain mapping 2018 ,		1
352	Parameter Identification for Magnetic Pulse Welding Applications. <i>Key Engineering Materials</i> , 2018 , 767, 431-438	0.4	10
351	Flexibility in metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 743-765	4.9	56
350	Influence of the flyer kinetics on magnetic pulse welding of tubes. <i>Journal of Materials Processing Technology</i> , 2018 , 262, 189-203	5.3	34
349	More Than Did You Read the Script? <i>Lecture Notes in Networks and Systems</i> , 2018 , 160-169	0.5	3
348	Ball Burnishing Under High Velocities Using a New Rolling Tool Concept. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018 , 140,	3.3	2
347	Optimization of the Linear Coil Winding Process by Combining New Actuator Principles on the Basis of Wire Forming Analysis 2018 ,		4
346	Stress State Control by a Novel Bending Process and its Effect on Damage Evolution 2018 ,		3
345	Remote and Virtual Labs for Engineering Education 4.0: Achievements of the ELLI project at the TU Dortmund University. <i>Procedia Manufacturing</i> , 2018 , 26, 1349-1360	1.5	44
344	Evaluation of micro-damage by acoustic methods. <i>Procedia Manufacturing</i> , 2018 , 15, 527-534	1.5	2
343	Influence of the Manufacturing Process on Hot Extruded Shape Memory Alloy Metal Matrix Composites 2018 ,		1
342	Influence of cutting tool stiffness on edge formability. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 418, 012061	0.4	3
341	Effect of multiple forming tools on geometrical and mechanical properties in incremental sheet forming 2018 ,		3
340	Modelling of the blanking process of high-carbon steel using Lemaitre damage model. <i>Comptes Rendus - Mecanique</i> , 2018 , 346, 770-778	2.1	7
339	Formability analysis of thin press hardening steel sheets under isothermal and non-isothermal conditions. <i>International Journal of Material Forming</i> , 2017 , 10, 405-419	2	5

338	Finite element analysis of combined forming processes by means of rate dependent ductile damage modelling. <i>International Journal of Material Forming</i> , 2017 , 10, 73-84	2	1
337	Experimental analysis of anisotropic damage in dual-phase steel by resonance measurement. <i>International Journal of Damage Mechanics</i> , 2017 , 26, 1147-1169	3	4
336	Modeling of ductile fracture from shear to balanced biaxial tension for sheet metals. <i>International Journal of Solids and Structures</i> , 2017 , 112, 169-184	3.1	114
335	Forming-induced damage and its effects on product properties. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 281-284	4.9	30
334	Adaptive wear model for shear-cutting simulation with open cutting line. <i>Wear</i> , 2017 , 386-387, 17-28	3.5	5
333	Analytical prediction of Joule heat losses in electromagnetic forming coils. <i>Journal of Materials Processing Technology</i> , 2017 , 246, 102-115	5.3	10
332	Deformation characteristics of thermoplastics in single point incremental forming 2017 ,		3
331	Improvement strategies for the formfilling in incremental gear forming processes. <i>Production Engineering</i> , 2017 , 11, 623-631	1.9	12
330	Increasing the formability of ferritic stainless steel tube by granular medium-based hot forming. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012009	0.3	1
329	2017 ,		8
328	Development of a FEM-lab for the virtual experimentation in forming processes 2017 ,		1
327	Influence of Different Yield Loci on Failure Prediction with Damage Models. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012081	0.3	2
326	Additive manufacture of tools and dies for metal forming 2017 , 439-464		5
325	Failure assessment in sheet metal forming using a phenomenological damage model and fracture criterion: experiments, parameter identification and validation. <i>Procedia Engineering</i> , 2017 , 207, 2066-2071		6
324	The reciprocal effects of bending and torsion on springback during 3D bending of profiles. <i>Procedia Engineering</i> , 2017 , 207, 2322-2327		8
323	Thermally activated lightweight actuator based on hot extruded shape memory metal matrix composites (SMA-MMC). <i>Procedia Engineering</i> , 2017 , 207, 1511-1516		11
322	Stress state dependency of unloading behavior in high strength steels. <i>Procedia Engineering</i> , 2017 , 207, 179-184		3
321	Effect of workpiece deformation on Joule heat losses in electromagnetic forming coils. <i>Procedia Engineering</i> , 2017 , 207, 341-346		4

320	Material characterization for plane and curved sheets using the in-plane torsion test – An overview. <i>Procedia Engineering</i> , 2017 , 207, 1934-1939		4
319	Microstructural characterization and simulation of damage for geared sheet components. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012076	0.3	2
318	High temperature and dynamic testing of AHSS for an analytical description of the adiabatic cutting process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012026	0.4	5
317	Measurement of Collision Conditions in Magnetic Pulse Welding Processes 2017 , 7,		10
316	Targeted Weld Seam Formation and Energy Reduction at Magnetic Pulse Welding (MPW). <i>Biuletyn Instytutu Spawalnictwa</i> , 2017 , 2017, 91-102	0.1	4
315	Analysis of Dislocation Structures in Ferritic and Dual Phase Steels Regarding Continuous and Discontinuous Loading Paths. <i>Minerals, Metals and Materials Series</i> , 2017 , 203-210	0.3	
314	Advancements in the manufacturing of dies for hot aluminum extrusion with conformal cooling channels. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 83, 1209-1220	3.2	36
313	Springback prediction and reduction in deep drawing under influence of unloading modulus degradation. <i>International Journal of Material Forming</i> , 2016 , 9, 619-633	2	22
312	Granular media-based tube press hardening. <i>Journal of Materials Processing Technology</i> , 2016 , 228, 145-159	5.9	20
311	Transnational Connected Learning and Experimentation - Using live online classes and remote labs for preparing international engineering students for an international working world. <i>International Journal of Engineering Pedagogy</i> , 2016 , 6, 18	1.3	2
310	Wear behavior of tribologically optimized tool surfaces for incremental forming processes. <i>Tribology International</i> , 2016 , 104, 64-72	4.9	22
309	Development of a tele-operative control for the incremental tube forming process and its integration into a learning environment 2016 ,		3
308	Investigations of ductile damage in DP600 and DC04 deep drawing steel sheets during punching. <i>Procedia Structural Integrity</i> , 2016 , 2, 673-680	1	6
307	Numerical investigation of blanking for metal polymer sandwich sheets. <i>MATEC Web of Conferences</i> , 2016 , 80, 16002	0.3	1
306	Reducing the stair step effect of layer manufactured surfaces by ball burnishing 2016 ,		4
305	Damage characterization of high-strength multiphase steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 159, 012013	0.4	4
304	Closed-loop control concept for kinematic 3D-profile bending 2016 ,		4
303	Enhanced granular medium-based tube and hollow profile press hardening. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 273-276	4.9	16

302	Development of a cupping test in remote laboratories for engineering education 2016 ,		5
301	Experimental and numerical investigation of increased formability in combined quasi-static and high-speed forming processes. <i>Journal of Materials Processing Technology</i> , 2016 , 237, 254-269	5.3	18
300	Analytical contact pressure model for predicting roughness of ball burnished surfaces. <i>Journal of Materials Processing Technology</i> , 2016 , 232, 63-77	5.3	21
299	Incipient and repeatable plastic flow in incremental sheet-bulk forming of gears. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 86, 3091-3100	3.2	13
298	Failure by fracture in sheetBulk metal forming. <i>Journal of Strain Analysis for Engineering Design</i> , 2016 , 51, 387-394	1.3	8
297	Accurate springback prediction in deep drawing using pre-strain based multiple cyclic stress-strain curves in finite element simulation. <i>International Journal of Mechanical Sciences</i> , 2016 , 110, 229-241	5.5	21
296	An analytical model to predict the shock pressure amplitude in vaporizing foils. <i>Journal of Materials Processing Technology</i> , 2016 , 231, 374-381	5.3	
295	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
294	Manufacturing of functional elements by sheet-bulk metal forming processes. <i>Production Engineering</i> , 2016 , 10, 63-80	1.9	30
293	Experimental and numerical analysis of tribological effective surfaces for forming tools in Sheet-Bulk Metal Forming. <i>Production Engineering</i> , 2016 , 10, 37-50	1.9	25
292	Analytical approach for magnetic pulse welding of sheet connections. <i>Journal of Materials Processing Technology</i> , 2016 , 230, 131-142	5.3	25
291	Vaporizing foil actuator welding as a competing technology to magnetic pulse welding. <i>Journal of Materials Processing Technology</i> , 2016 , 230, 8-20	5.3	20
290	Transnational Connected Learning and Experimentation Using Live Online Classes and Remote Labs for Preparing International Engineering Students for an International Working World 2016 , 373-393		2
289	Development of a Cupping Test in Remote Laboratories for Engineering Education 2016 , 465-476		1
288	Concepts of the International Manufacturing Remote Lab (MINTReLab) Combination of a MOOC and a Remote Lab for a Manufacturing Technology Online Course 2016 , 547-558		
287	Development of a Tele-Operative Control for the Incremental Tube Forming Process and Its Integration into a Learning Environment 2016 , 513-528		
286	Integration of new Concepts and Features into Forming Technology Lectures 2016 , 529-545		1
285	Development of a Tele-Operative Testing Cell as a Remote Lab for Material Characterization 2016 , 265-277		

284 The Challenge of Specimen Handling in Remote Laboratories for Engineering Education **2016**, 449-464

283	Setting Mechanical Properties of High Strength Steels for Rapid Hot Forming Processes. <i>Materials</i> , 2016 , 9,	3.5	27
282	Evaluation of Void Nucleation and Development during Plastic Deformation of Dual-Phase Steel DP600. <i>Steel Research International</i> , 2016 , 87, 1583-1591	1.6	19
281	Measurement and analysis technologies for magnetic pulse welding: established methods and new strategies. <i>Advances in Manufacturing</i> , 2016 , 4, 322-339	2.7	19
280	Multiple forming tools in incremental forming ¶ Influence of the forming strategies on sheet contour 2016 ,		1
279	Remote labs in ELLI: Lab experience for every student with two different approaches 2016 ,		7
278	The evaluation of remote laboratories: Development and application of a holistic model for the evaluation of online remote laboratories in manufacturing technology education 2016 ,		3
277	Fracture toughness and failure limits in sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2016 , 234, 249-258	5.3	18
276	Local sheet thickening by in-plane swaging. <i>International Journal of Mechanical Sciences</i> , 2016 , 119, 59-67.5		5
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