

A Erman Tekkaya

List of Publications by Citations

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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	A review on hot stamping. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 2103-2118	5.3	1102
462	Electromagnetic forming: A review. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 787-829	5.3	588
461	Joining by plastic deformation. <i>CIRP Annals - Manufacturing Technology</i> , 2013 , 62, 673-694	4.9	294
460	Bulk forming of sheet metal. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 725-745	4.9	257
459	Hybrid processes in manufacturing. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 561-583	4.9	227
458	Testing and modelling of material behaviour and formability in sheet metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 727-749	4.9	151
457	Formability limits by fracture in sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 1557-1565	5.3	140
456	A comparison of orthogonal cutting data from experiments with three different finite element models. <i>International Journal of Machine Tools and Manufacture</i> , 2004 , 44, 933-944	9.4	138
455	Hot profile extrusion of AA-6060 aluminum chips. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 3343-3350	5.3	123
454	Incremental Bulk Metal Forming. <i>CIRP Annals - Manufacturing Technology</i> , 2007 , 56, 635-656	4.9	123
453	Formability of Metallic Materials. <i>Engineering Materials</i> , 2000 ,	0.4	118
452	State-of-the-art of simulation of sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2000 , 103, 14-22	5.3	116
451	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
450	Metal forming beyond shaping: Predicting and setting product properties. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 629-653	4.9	111
449	The Increased Forming Limits of Incremental Sheet Forming Processes. <i>Key Engineering Materials</i> , 2007 , 344, 621-628	0.4	110
448	Single point incremental forming of PVC. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 462-469	5.3	105
447	Single point incremental forming of polymers. <i>CIRP Annals - Manufacturing Technology</i> , 2009 , 58, 229-232	4.9	100

446	Velocity effects in metal forming and machining processes. <i>CIRP Annals - Manufacturing Technology</i> , 2011 , 60, 627-650	4.9	99
445	Biomechanical effects of rapid maxillary expansion on the craniofacial skeleton, studied by the finite element method. <i>European Journal of Orthodontics</i> , 1998 , 20, 347-56	3.3	99
444	Closed-loop control of product properties in metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 573-596	4.9	94
443	Characterization of fracture loci in metal forming. <i>International Journal of Mechanical Sciences</i> , 2014 , 83, 112-123	5.5	91
442	Improving mechanical properties of chip-based aluminum extrudates by integrated extrusion and equal channel angular pressing (iECAP). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 539, 194-204	5.3	78
441	The Development of Ring Rolling Technology. <i>Steel Research International</i> , 2005 , 76, 111-120	1.6	78
440	The new TSS bending process: 3D bending of profiles with arbitrary cross-sections. <i>CIRP Annals - Manufacturing Technology</i> , 2010 , 59, 315-318	4.9	73
439	Experimental investigation of embedding high strength reinforcements in extrusion profiles. <i>CIRP Annals - Manufacturing Technology</i> , 2008 , 57, 313-316	4.9	72
438	An experimental and numerical investigation of different shear test configurations for sheet metal characterization. <i>International Journal of Solids and Structures</i> , 2014 , 51, 1066-1074	3.1	70
437	Effect of die design on the welding quality during solid state recycling of AA6060 chips by hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 574, 163-175	5.3	66
436	Environmental assessment of solid state recycling routes for aluminium alloys: Can solid state processes significantly reduce the environmental impact of aluminium recycling?. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 37-40	4.9	64
435	A combined experimental-numerical investigation of ductile fracture in bending of a class of ferritic-bainitic steel. <i>International Journal of Solids and Structures</i> , 2012 , 49, 1608-1626	3.1	57
434	Flexibility in metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 743-765	4.9	56
433	A new method for determining dynamic grain structure evolution during hot aluminum extrusion. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 323-330	5.3	56
432	Forming of Lightweight Metal Components: Need for New Technologies. <i>Procedia Engineering</i> , 2014 , 81, 28-37		54
431	A semi-empirical approach for residual stresses in electric discharge machining (EDM). <i>International Journal of Machine Tools and Manufacture</i> , 2006 , 46, 858-868	9.4	54
430	Characterization of anisotropy of sheet metals employing inhomogeneous strain fields for Yld2000-2D yield function. <i>International Journal of Solids and Structures</i> , 2012 , 49, 3517-3527	3.1	51
429	Accuracy, reliability and validity of finite element analysis in metal forming: a user's perspective. <i>Engineering Computations</i> , 2009 , 26, 1026-1055	1.4	48

428	A cyclic twin bridge shear test for the identification of kinematic hardening parameters. <i>International Journal of Mechanical Sciences</i> , 2012 , 59, 31-43	5.5	47
427	A grooved in-plane torsion test for the investigation of shear fracture in sheet materials. <i>International Journal of Solids and Structures</i> , 2015 , 66, 121-132	3.1	46
426	RESIDUAL STRESS STATE AND HARDNESS DEPTH IN ELECTRIC DISCHARGE MACHINING: DE-IONIZED WATER AS DIELECTRIC LIQUID. <i>Machining Science and Technology</i> , 2005 , 9, 39-61	2	45
425	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
424	Cold extrusion of hot extruded aluminum chips. <i>Journal of Materials Processing Technology</i> , 2015 , 217, 356-367	5.3	43
423	An Improved Relationship between Vickers Hardness and Yield Stress for Cold Formed Materials and its Experimental Verification. <i>CIRP Annals - Manufacturing Technology</i> , 2000 , 49, 205-208	4.9	42
422	Numerical investigation of non-homogeneous plastic deformation in quenching process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 319-321, 164-169	5.3	40
421	A New Shear Test for Sheet Metal Characterization. <i>Steel Research International</i> , 2011 , 82, 323-328	1.6	39
420	The Development of Ring Rolling Technology [Part 2: Investigation of Process Behaviour and Production Equipment. <i>Steel Research International</i> , 2005 , 76, 491-507	1.6	39
419	Influence of groove characteristics on strength of form-fit joints. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 925-935	5.3	38
418	High quality extrudates from aluminum chips by new billet compaction and deformation routes. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 239-242	4.9	37
417	The Technical and Commercial Potential of an Incremental Ring Rolling Process. <i>CIRP Annals - Manufacturing Technology</i> , 2005 , 54, 233-236	4.9	37
416	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
415	Prediction of roughness after ball burnishing of thermally coated surfaces. <i>Journal of Materials Processing Technology</i> , 2015 , 217, 193-201	5.3	36
414	Direct recycling of 1050 aluminum alloy scrap material mixed with 6060 aluminum alloy chips by hot extrusion. <i>International Journal of Material Forming</i> , 2010 , 3, 853-856	2	36
413	Microstructure analysis of aluminum extrusion: Prediction of microstructure on AA6060 alloy. <i>Journal of Materials Processing Technology</i> , 2008 , 201, 156-162	5.3	36
412	Fundamentals of the incremental tube forming process. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 253-256	4.9	35
411	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

410	Thermo-mechanical coupled simulation of hot stamping components for process design. <i>Production Engineering</i> , 2007 , 1, 85-89	1.9	34
409	Microstructure analysis of aluminum extrusion: grain size distribution in AA6060, AA6082 and AA7075 alloys. <i>Journal of Mechanical Science and Technology</i> , 2007 , 21, 1445-1451	1.6	32
408	Analytical methodology for the process design of electromagnetic crimping. <i>Journal of Materials Processing Technology</i> , 2015 , 222, 163-180	5.3	31
407	Damage Mechanisms and Mechanical Properties of High-Strength Multiphase Steels. <i>Materials</i> , 2018 , 11,	3.5	31
406	Controlling heat balance in hot aluminum extrusion by additive manufactured extrusion dies with conformal cooling channels. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013 , 14, 1487-1493	1.7	31
405	Application of Continuum Damage Mechanics in discontinuous crack Formation: Forward extrusion chevron predictions. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2008 , 88, 436-453	1	31
404	Forming-induced damage and its effects on product properties. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 281-284	4.9	30
403	Manufacturing of functional elements by sheet-bulk metal forming processes. <i>Production Engineering</i> , 2016 , 10, 63-80	1.9	30
402	Textured surfaces for deep drawing tools by rolling. <i>International Journal of Machine Tools and Manufacture</i> , 2010 , 50, 969-976	9.4	29
401	Numerical simulation of various cross sectional workpieces using conventional deep drawing and hydroforming technologies. <i>International Journal of Machine Tools and Manufacture</i> , 2008 , 48, 532-542	9.4	29
400	Determining cyclic flow curves using the in-plane torsion test. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 261-264	4.9	28
399	Residual Stresses in Cold-Formed Workpieces. <i>CIRP Annals - Manufacturing Technology</i> , 1985 , 34, 225-230.	9	28
398	Determining Stress-Strain Curves of Sheet Metal in the Plane Torsion Test. <i>CIRP Annals - Manufacturing Technology</i> , 1982 , 31, 171-174	4.9	27
397	Lightweight in Automotive Components by Forming Technology. <i>Automotive Innovation</i> , 2020 , 3, 195-209.	7	27
396	Setting Mechanical Properties of High Strength Steels for Rapid Hot Forming Processes. <i>Materials</i> , 2016 , 9,	3.5	27
395	Thermally sprayed finestructured WC-12Co coatings finished by ball burnishing and grinding as an innovative approach to protect forming tools against wear. <i>Surface and Coatings Technology</i> , 2015 , 268, 134-141	4.4	26
394	Plastic flow and failure in single point incremental forming of PVC sheets. <i>EXPRESS Polymer Letters</i> , 2014 , 8, 301-311	3.4	26
393	Friction model selection in FEM simulations of aluminium extrusion. <i>International Journal of Surface Science and Engineering</i> , 2010 , 4, 27	1	26

392	Finite element simulation of quench hardening. <i>Steel Research = Archiv Für Das Eisenhüttenwesen</i> , 1996 , 67, 298-306		26
391	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
390	Analytical approach for magnetic pulse welding of sheet connections. <i>Journal of Materials Processing Technology</i> , 2016 , 230, 131-142	5.3	25
389	Hot Extrusion Dies with Conformal Cooling Channels Produced by Additive Manufacturing. <i>Materials Today: Proceedings</i> , 2015 , 2, 4838-4846	1.4	25
388	Recycling of Aluminum Chips by Hot Extrusion with Subsequent Cold Extrusion. <i>Procedia Engineering</i> , 2014 , 81, 652-657		24
387	Production of low-volume aviation components using disposable electromagnetic actuators. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 886-895	5.3	24
386	Damage in metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 600-623	4.9	24
385	Modeling and finite element simulation of loading-path-dependent hardening in sheet metals during forming. <i>International Journal of Plasticity</i> , 2014 , 63, 64-93	7.6	23
384	Thermo-mechanical processing of aluminum profiles by integrated electromagnetic compression subsequent to hot extrusion. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 936-943	5.3	23
383	Developing Tele-Operated Laboratories for Manufacturing Engineering Education. Platform for E-Learning and Telemetric Experimentation (PeTEX). <i>International Journal of Online and Biomedical Engineering</i> , 2010 , 6, 60	0.8	23
382	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
381	Wear behavior of tribologically optimized tool surfaces for incremental forming processes. <i>Tribology International</i> , 2016 , 104, 64-72	4.9	22
380	Grain size evolution simulation in aluminium alloys AA 6082 and AA 7020 during hot forward extrusion process. <i>Materials Science and Technology</i> , 2013 , 29, 100-110	1.5	22
379	Innovative Machine Concepts for 3D Bending of Tubes and Profiles. <i>Key Engineering Materials</i> , 2011 , 473, 37-42	0.4	22
378	Identification of fully coupled anisotropic plasticity and damage constitutive equations using a hybrid experimental-numerical methodology with various triaxialities. <i>International Journal of Damage Mechanics</i> , 2015 , 24, 683-710	3	21
377	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
376	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
375	Development of a tele-operative testing cell as a remote lab for material characterization 2014 ,		21

374	Uniform Pressure Electromagnetic Actuator [An Innovative Tool for Magnetic Pulse Welding]. <i>Procedia CIRP</i> , 2014 , 18, 156-161	1.8	21
373	A simple finite strain non-linear visco-plastic model for thermoplastics and its application to the simulation of incremental cold forming of polyvinylchloride (PVC). <i>International Journal of Mechanical Sciences</i> , 2013 , 66, 192-201	5.5	21
372	Manufacturing of lightweight frame structures by innovative joining by forming processes. <i>International Journal of Material Forming</i> , 2009 , 2, 307-310	2	21
371	Granular media-based tube press hardening. <i>Journal of Materials Processing Technology</i> , 2016 , 228, 145-159	5.5	20
370	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
369	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
368	Three-Dimensional Bending of Profiles with Stress Superposition. <i>International Journal of Material Forming</i> , 2008 , 1, 133-136	2	20
367	Ermittlung von Eigenspannungen in der Kaltmassivumformung. <i>Berichte Aus Dem Institut für Umfortechnik Universität Stuttgart</i> , 1986 ,		20
366	Investigation of evolving yield surfaces of dual-phase steels. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116314	5.3	20
365	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
364	Mechanics of sheet-bulk indentation. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 2387-2394	5.3	19
363	Novel Five-Axis Forming Press for the Incremental Sheet-Bulk Metal Forming. <i>Key Engineering Materials</i> , 2013 , 554-557, 1478-1483	0.4	19
362	Surface reconstruction for incremental forming. <i>Production Engineering</i> , 2007 , 1, 71-78	1.9	19
361	New Aspects of Joining by Compression and Expansion of Tubular Workpieces. <i>International Journal of Material Forming</i> , 2008 , 1, 1295-1298	2	19
360	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
359	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
358	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
357	Friction analysis of thermally sprayed coatings finished by ball burnishing and grinding. <i>Production Engineering</i> , 2013 , 7, 601-610	1.9	18

356	Dynamic forming limits and numerical optimization of combined quasi-static and impulse metal forming. <i>Computational Materials Science</i> , 2012 , 54, 293-302	3.2	18
355	Tele-Operated Laboratories for Online Production Engineering Education - Platform for E-Learning and Telemetric Experimentation (PeTEX). <i>International Journal of Online and Biomedical Engineering</i> , 2011 , 7, 37	0.8	18
354	Experimental and Numerical Analysis of Material Flow in Porthole Die Extrusion. <i>Key Engineering Materials</i> , 2011 , 491, 97-104	0.4	18
353	Improved Tool Surfaces for Incremental Bulk Forming Processes of Sheet Metals. <i>Key Engineering Materials</i> , 2012 , 504-506, 975-980	0.4	18
352	Finishing of Thermally Sprayed Tool Coatings for Sheet Metal Forming Operations by Roller Burnishing. <i>International Journal of Material Forming</i> , 2010 , 3, 147-150	2	18
351	Tooling concepts to speed up incremental sheet forming. <i>Production Engineering</i> , 2010 , 4, 57-64	1.9	18
350	Stresses induced by different loadings around weak abutments. <i>Journal of Prosthetic Dentistry</i> , 1992 , 68, 879-84	4	18
349	Torsion testing of plastic deformation to high strains and strain rates. <i>Materials Science and Technology</i> , 1985 , 1, 972-977	1.5	18
348	Fracture toughness and failure limits in sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2016 , 234, 249-258	5.3	18
347	Flow curves up to high strains considering load reversal and damage. <i>International Journal of Material Forming</i> , 2019 , 12, 955-972	2	17
346	Determination of the flow curve at high strain rates using electromagnetic punch stretching. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 1314-1323	5.3	17
345	Platform for e-Learning and Telemetric Experimentation (PeTEX). Tele-operated laboratories for production engineering education 2011 ,		17
344	Innovation by forming technology: motivation for research. <i>International Journal of Material Forming</i> , 2009 , 2, 29-38	2	17
343	Joining dissimilar thin-walled tubes by Magnetic Pulse Welding. <i>Journal of Materials Processing Technology</i> , 2020 , 279, 116562	5.3	17
342	Enhanced granular medium-based tube and hollow profile press hardening. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 273-276	4.9	16
341	Magnetic Pulse Welding by Electromagnetic Compression: Determination of the Impact Velocity. <i>Advanced Materials Research</i> , 2014 , 966-967, 489-499	0.5	16
340	Joining of lightweight frame structures by die-less hydroforming. <i>International Journal of Material Forming</i> , 2010 , 3, 1031-1034	2	16
339	Simulation of tube wrinkling in electromagnetic compression. <i>Production Engineering</i> , 2010 , 4, 421-426	1.9	16

338	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
337	Extending the Flexibility in the Composite Extrusion Process. <i>Procedia CIRP</i> , 2014 , 18, 33-38	1.8	15
336	Thermal loads of working coils in electromagnetic sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 2553-2565	5.3	15
335	Innovative Tools to Improve Incremental Bulk Forming Processes. <i>Key Engineering Materials</i> , 2013 , 554-557, 1490-1497	0.4	15
334	Yield locus evolution and constitutive parameter identification using plane strain tension and tensile tests. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 1957-1964	5.3	15
333	PeTEX@Work: Designing CSCL@Work for Online Engineering Education 2013 , 269-292		15
332	Joining zone design for electromagnetically crimped connections. <i>Journal of Materials Processing Technology</i> , 2015 , 225, 240-261	5.3	14
331	60 Excellent Inventions in Metal Forming 2015 ,		14
330	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
329	Investigations on the Manufacturability of Thin Press Hardened Steel Components. <i>Procedia CIRP</i> , 2014 , 18, 74-79	1.8	14
328	Fundamentals for controlling thickness and surface quality during dieless necking-in of tubes by spinning. <i>CIRP Annals - Manufacturing Technology</i> , 2013 , 62, 299-302	4.9	14
327	The Effect of Extrusion Ratio and Material Flow on the Mechanical Properties of Aluminum Profiles Solid State Recycled from 6060 Aluminum Alloy Chips 2011 ,		14
326	Improved relationship between Vickers hardness and yield stress for cold formed materials. <i>Steel Research = Archiv Für Das Eisenhüttenwesen</i> , 2001 , 72, 304-310		14
325	Methods for measuring large shear strains in in-plane torsion tests. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116516	5.3	14
324	Formability prediction of AL7020 with experimental and numerical failure criteria. <i>Journal of Materials Processing Technology</i> , 2015 , 218, 80-88	5.3	13
323	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
322	Extrusion Benchmark 2009 Experimental Analysis of Deflection in Extrusion Dies. <i>Key Engineering Materials</i> , 2009 , 424, 19-26	0.4	13
321	Finite deformation plasticity coupled with isotropic damage: Formulation in principal axes and applications. <i>Finite Elements in Analysis and Design</i> , 2010 , 46, 668-683	2.2	13

320	Service life estimation of extrusion dies by numerical simulation of fatigue-crack-growth. <i>International Journal of Mechanical Sciences</i> , 1996 , 38, 527-538	5.5	13
319	Improvement strategies for the formfilling in incremental gear forming processes. <i>Production Engineering</i> , 2017 , 11, 623-631	1.9	12
318	Thermal Effects in Dissimilar Magnetic Pulse Welding. <i>Metals</i> , 2019 , 9, 348	2.3	12
317	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
316	Predicting weld-quality in direct hot extrusion of aluminium chips. <i>Journal of Materials Processing Technology</i> , 2019 , 274, 116294	5.3	12
315	Analytical Prediction of Roughness after Ball Burnishing of Thermally Coated Surfaces. <i>Procedia Engineering</i> , 2014 , 81, 1921-1926		12
314	A damage coupled orthotropic finite plasticity model for sheet metal forming: CDM approach. <i>Computational Materials Science</i> , 2010 , 48, 150-165	3.2	12
313	Analysis of the Hydraulic Bulge Test with FEA Concerning the Accuracy of the Determined Flow Curves. <i>Key Engineering Materials</i> , 2009 , 410-411, 439-447	0.4	12
312	Analytic Prediction of the Process Parameters for Form-Fit Joining by Die-Less Hydroforming. <i>Key Engineering Materials</i> , 2012 , 504-506, 393-398	0.4	12
311	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
310	Comparison of various preforms for hot forging of bearing rings. <i>Journal of Materials Processing Technology</i> , 2005 , 169, 72-82	5.3	12
309	Shape optimization with the biological growth method: a parameter study. <i>Engineering Computations</i> , 1996 , 13, 4-18	1.4	12
308	Thermally activated lightweight actuator based on hot extruded shape memory metal matrix composites (SMA-MMC). <i>Procedia Engineering</i> , 2017 , 207, 1511-1516		11
307	The non-hydrostatic response of polymer melts as a pressure medium in sheet metal forming. <i>Production Engineering</i> , 2012 , 6, 385-394	1.9	11
306	Modeling Approach for the Determination of Material Flow and Welding Conditions in Porthole Die Extrusion with Gas Pocket Formation. <i>Key Engineering Materials</i> , 2013 , 554-557, 787-793	0.4	11
305	Modeling of dynamic microstructure evolution of EN AW-6082 alloy during hot forward extrusion. <i>Computational Materials Science</i> , 2011 , 50, 1520-1525	3.2	11
304	High wear resistant deep drawing tools made of coated polymers. <i>CIRP Annals - Manufacturing Technology</i> , 2011 , 60, 311-314	4.9	11
303	Analysis of shear cutting of dual phase steel by application of an advanced damage model. <i>Procedia Structural Integrity</i> , 2016 , 2, 1700-1707	1	11

302	Analytical prediction of Joule heat losses in electromagnetic forming coils. <i>Journal of Materials Processing Technology</i> , 2017 , 246, 102-115	5.3	10
301	Fracture Loci in Sheet Metal Forming: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015 , 28, 1415-1425	1.9	10
300	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
299	Parameter Identification for Magnetic Pulse Welding Applications. <i>Key Engineering Materials</i> , 2018 , 767, 431-438	0.4	10
298	Bridge Design Influences on the Pressure Conditions in the Welding Chamber for Porthole Die Extrusion. <i>Key Engineering Materials</i> , 2014 , 622-623, 87-94	0.4	10
297	New incremental methods for springback compensation by stress superposition. <i>International Journal of Material Forming</i> , 2009 , 2, 817-820	2	10
296	Generalized transient temperature behavior in induction heated workpieces. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 5932-5939	5.3	10
295	Development of ultra high performance concrete dies for sheet metal hydroforming. <i>Production Engineering</i> , 2008 , 2, 201-208	1.9	10
294	Measurement of Collision Conditions in Magnetic Pulse Welding Processes 2017 , 7,		10
293	Damage-induced performance variations of cold forged parts. <i>Journal of Materials Processing Technology</i> , 2020 , 279, 116556	5.3	10
292	Particle Ejection by Jetting and Related Effects in Impact Welding Processes. <i>Metals</i> , 2020 , 10, 1108	2.3	10
291	Adiabatic blanking of advanced high-strength steels. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 269-272	4.9	9
290	In-situ measurement of loading stresses with X-ray diffraction for yield locus determination. <i>International Journal of Automotive Technology</i> , 2014 , 15, 303-316	1.6	9
289	Innovative Machine Design for Incremental Profile Forming. <i>Key Engineering Materials</i> , 2014 , 622-623, 413-419	0.4	9
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192	Analysis of residual stress state in sheet metal parts processed by single point incremental forming 2018 ,		4
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177	Micro-magnetic damage characterization of bent and cold forged parts. <i>Production Engineering</i> , 2020 , 14, 77-85	1.9	4

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174	Optimization of the Linear Coil Winding Process by Combining New Actuator Principles on the Basis of Wire Forming Analysis 2018 ,		4
173	Deformation characteristics of thermoplastics in single point incremental forming 2017 ,		3
172	Properties of Components with Incrementally Formed Gears. <i>Metals</i> , 2019 , 9, 515	2.3	3
171	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
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169	Development of a tele-operative control for the incremental tube forming process and its integration into a learning environment 2016 ,		3
168	Experimental and numerical investigations of wire bending by linear winding of rectangular tooth coils 2018 ,		3
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152	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
151	More Than Did You Read the Script? <i>Lecture Notes in Networks and Systems</i> , 2018 , 160-169	0.5	3
150	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
149	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
148	Stress State Control by a Novel Bending Process and its Effect on Damage Evolution 2018 ,		3
147	Influence of cutting tool stiffness on edge formability. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 418, 012061	0.4	3
146	Effect of multiple forming tools on geometrical and mechanical properties in incremental sheet forming 2018 ,		3
145	Large strain flow curve identification for sheet metals under complex stress states. <i>Mechanics of Materials</i> , 2021 , 161, 103997	3.3	3
144	Developments in composite extrusion of complex profiles for automotive applications. <i>Materials Today: Proceedings</i> , 2019 , 10, 217-225	1.4	2
143	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
142	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
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137	Electrically Driven Plasma via Vaporization of Metallic Conductors: A Novel Tool for Joining Tubular Workpieces. <i>Procedia CIRP</i> , 2014 , 18, 62-67	1.8	2
136	The globally competent engineer: What different stakeholders say about educating engineers for a globalized world 2014 ,		2
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129	Groove Filling Characteristics and Strength of Form-Fit Joints Produced by Die-Less Hydroforming. <i>Key Engineering Materials</i> , 2013 , 554-557, 671-680	0.4	2
128	miniLABs [Focused Lab Sessions in Manufacturing Technology Related to Forming Processes. <i>International Journal of Engineering Pedagogy</i> , 2013 , 3, 52	1.3	2
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121	Processing of New Solar Absorbers in Steel Design Based on Partially Cold Roll Bonded Hybrid Semi-Finished Parts. <i>Key Engineering Materials</i> , 2012 , 504-506, 137-142	0.4	2
120	Prototype Manufacturing of Extruded Aluminum Aircraft Stringer Profiles with Continuous Reinforcement. <i>Advanced Materials Research</i> , 2008 , 43, 167-174	0.5	2
119	Development of a Remote Compression Test Lab for Engineering Education. <i>Lecture Notes in Networks and Systems</i> , 2020 , 496-505	0.5	2
118	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
117	TwinTool 2015 , 161-166		2
116	A quick model for demonstrating high speed forming capabilities. <i>Mechanics Research Communications</i> , 2020 , 108, 103579	2.2	2
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113	Hybrid Additive Manufacturing of Collector Coins. <i>Journal of Manufacturing and Materials Processing</i> , 2020 , 4, 115	2.2	2
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111	Bending moment in incremental tube forming. <i>International Journal of Material Forming</i> , 2019 , 12, 113-122		2
110	Analytical process design for interference-fit joining of rectangular profiles. <i>Journal of Materials Processing Technology</i> , 2020 , 276, 116391	5.3	2
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