

A Erman Tekkaya

List of Publications by Year in descending order

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481
papers

11,905
citations

50244

46
h-index

43868

91
g-index

506
all docs

506
docs citations

506
times ranked

4729
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on hot stamping. Journal of Materials Processing Technology, 2010, 210, 2103-2118.	3.1	1,400
2	Electromagnetic formingâ€™A review. Journal of Materials Processing Technology, 2011, 211, 787-829.	3.1	745
3	Joining by plastic deformation. CIRP Annals - Manufacturing Technology, 2013, 62, 673-694.	1.7	376
4	Hybrid processes in manufacturing. CIRP Annals - Manufacturing Technology, 2014, 63, 561-583.	1.7	316
5	Bulk forming of sheet metal. CIRP Annals - Manufacturing Technology, 2012, 61, 725-745.	1.7	307
6	Testing and modelling of material behaviour and formability in sheet metal forming. CIRP Annals - Manufacturing Technology, 2014, 63, 727-749.	1.7	185
7	Formability limits by fracture in sheet metal forming. Journal of Materials Processing Technology, 2014, 214, 1557-1565.	3.1	180
8	Modeling of ductile fracture from shear to balanced biaxial tension for sheet metals. International Journal of Solids and Structures, 2017, 112, 169-184.	1.3	179
9	Formability of Metallic Materials. Engineering Materials, 2000, , .	0.3	168
10	Hot profile extrusion of AA-6060 aluminum chips. Journal of Materials Processing Technology, 2009, 209, 3343-3350.	3.1	163
11	A comparison of orthogonal cutting data from experiments with three different finite element models. International Journal of Machine Tools and Manufacture, 2004, 44, 933-944.	6.2	160
12	State-of-the-art of simulation of sheet metal forming. Journal of Materials Processing Technology, 2000, 103, 14-22.	3.1	144
13	Incremental Bulk Metal Forming. CIRP Annals - Manufacturing Technology, 2007, 56, 635-656.	1.7	136
14	Metal forming beyond shaping: Predicting and setting product properties. CIRP Annals - Manufacturing Technology, 2015, 64, 629-653.	1.7	134
15	Closed-loop control of product properties in metal forming. CIRP Annals - Manufacturing Technology, 2016, 65, 573-596.	1.7	130
16	The Increased Forming Limits of Incremental Sheet Forming Processes. Key Engineering Materials, 0, 344, 621-628.	0.4	129
17	Biomechanical effects of rapid maxillary expansion on the craniofacial skeleton, studied by the finite element method. European Journal of Orthodontics, 1998, 20, 347-356.	1.1	128
18	Single point incremental forming of PVC. Journal of Materials Processing Technology, 2009, 209, 462-469.	3.1	126

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19	Single point incremental forming of polymers. CIRP Annals - Manufacturing Technology, 2009, 58, 229-232.	1.7	122
20	Velocity effects in metal forming and machining processes. CIRP Annals - Manufacturing Technology, 2011, 60, 627-650.	1.7	116
21	Characterization of fracture loci in metal forming. International Journal of Mechanical Sciences, 2014, 83, 112-123.	3.6	112
22	Flexibility in metal forming. CIRP Annals - Manufacturing Technology, 2018, 67, 743-765.	1.7	104
23	The Development of Ring Rolling Technology. Steel Research International, 2005, 76, 111-120.	1.0	102
24	Remote and Virtual Labs for Engineering Education 4.0. Procedia Manufacturing, 2018, 26, 1349-1360.	1.9	98
25	The new TSS bending process: 3D bending of profiles with arbitrary cross-sections. CIRP Annals - Manufacturing Technology, 2010, 59, 315-318.	1.7	96
26	An experimental and numerical investigation of different shear test configurations for sheet metal characterization. International Journal of Solids and Structures, 2014, 51, 1066-1074.	1.3	92
27	Environmental assessment of solid state recycling routes for aluminium alloys: Can solid state processes significantly reduce the environmental impact of aluminium recycling?. CIRP Annals - Manufacturing Technology, 2015, 64, 37-40.	1.7	90
28	Improving mechanical properties of chip-based aluminum extrudates by integrated extrusion and equal channel angular pressing (iECAP). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 194-204.	2.6	89
29	Effect of die design on the welding quality during solid state recycling of AA6060 chips by hot extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 574, 163-175.	2.6	88
30	Experimental investigation of embedding high strength reinforcements in extrusion profiles. CIRP Annals - Manufacturing Technology, 2008, 57, 313-316.	1.7	76
31	Forming of Lightweight Metal Components: Need for New Technologies. Procedia Engineering, 2014, 81, 28-37.	1.2	73
32	A combined experimentalâ€“numerical investigation of ductile fracture in bending of a class of ferriticâ€“martensitic steel. International Journal of Solids and Structures, 2012, 49, 1608-1626.	1.3	70
33	A new method for determining dynamic grain structure evolution during hot aluminum extrusion. Journal of Materials Processing Technology, 2012, 212, 323-330.	3.1	69
34	Lightweight in Automotive Components by Forming Technology. Automotive Innovation, 2020, 3, 195-209.	3.1	69
35	Characterization of anisotropy of sheet metals employing inhomogeneous strain fields for Yld2000-2D yield function. International Journal of Solids and Structures, 2012, 49, 3517-3527.	1.3	65
36	Damage in metal forming. CIRP Annals - Manufacturing Technology, 2020, 69, 600-623.	1.7	64

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37	A grooved in-plane torsion test for the investigation of shear fracture in sheet materials. International Journal of Solids and Structures, 2015, 66, 121-132.	1.3	63
38	Influence of groove characteristics on strength of form-fit joints. Journal of Materials Processing Technology, 2011, 211, 925-935.	3.1	61
39	A semi-empirical approach for residual stresses in electric discharge machining (EDM). International Journal of Machine Tools and Manufacture, 2006, 46, 858-868.	6.2	60
40	Damage Mechanisms and Mechanical Properties of High-Strength Multiphase Steels. Materials, 2018, 11, 761.	1.3	60
41	A cyclic twin bridge shear test for the identification of kinematic hardening parameters. International Journal of Mechanical Sciences, 2012, 59, 31-43.	3.6	59
42	Accuracy, reliability and validity of finite element analysis in metal forming: a user's perspective. Engineering Computations, 2009, 26, 1026-1055.	0.7	57
43	A New Shear Test for Sheet Metal Characterization. Steel Research International, 2011, 82, 323-328.	1.0	56
44	Cold extrusion of hot extruded aluminum chips. Journal of Materials Processing Technology, 2015, 217, 356-367.	3.1	56
45	An Improved Relationship between Vickers Hardness and Yield Stress for Cold Formed Materials and its Experimental Verification. CIRP Annals - Manufacturing Technology, 2000, 49, 205-208.	1.7	53
46	RESIDUAL STRESS STATE AND HARDNESS DEPTH IN ELECTRIC DISCHARGE MACHINING: DE-IONIZED WATER AS DIELECTRIC LIQUID. Machining Science and Technology, 2005, 9, 39-61.	1.4	52
47	The Development of Ring Rolling Technology - Part 2: Investigation of Process Behaviour and Production Equipment. Steel Research International, 2005, 76, 491-507.	1.0	47
48	Direct recycling of 1050 aluminum alloy scrap material mixed with 6060 aluminum alloy chips by hot extrusion. International Journal of Material Forming, 2010, 3, 853-856.	0.9	47
49	Numerical investigation of non-homogeneous plastic deformation in quenching process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 319-321, 164-169.	2.6	46
50	Advancements in the manufacturing of dies for hot aluminum extrusion with conformal cooling channels. International Journal of Advanced Manufacturing Technology, 2016, 83, 1209-1220.	1.5	46
51	High quality extrudates from aluminum chips by new billet compaction and deformation routes. CIRP Annals - Manufacturing Technology, 2012, 61, 239-242.	1.7	45
52	The Technical and Commercial Potential of an Incremental Ring Rolling Process. CIRP Annals - Manufacturing Technology, 2005, 54, 233-236.	1.7	44
53	Fundamentals of the incremental tube forming process. CIRP Annals - Manufacturing Technology, 2014, 63, 253-256.	1.7	44
54	Prediction of roughness after ball burnishing of thermally coated surfaces. Journal of Materials Processing Technology, 2015, 217, 193-201.	3.1	44

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55	Investigation of evolving yield surfaces of dual-phase steels. Journal of Materials Processing Technology, 2021, 287, 116314.	3.1	44
56	Forming-induced damage and its effects on product properties. CIRP Annals - Manufacturing Technology, 2017, 66, 281-284.	1.7	43
57	Influence of the flyer kinetics on magnetic pulse welding of tubes. Journal of Materials Processing Technology, 2018, 262, 189-203.	3.1	43
58	Microstructure analysis of aluminum extrusion: Prediction of microstructure on AA6060 alloy. Journal of Materials Processing Technology, 2008, 201, 156-162.	3.1	42
59	Controlling heat balance in hot aluminum extrusion by additive manufactured extrusion dies with conformal cooling channels. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1487-1493.	1.1	42
60	Thermo-mechanical coupled simulation of hot stamping components for process design. Production Engineering, 2007, 1, 85-89.	1.1	41
61	Analytical methodology for the process design of electromagnetic crimping. Journal of Materials Processing Technology, 2015, 222, 163-180.	3.1	41
62	Analytical approach for magnetic pulse welding of sheet connections. Journal of Materials Processing Technology, 2016, 230, 131-142.	3.1	39
63	Determining Stress-Strain Curves of Sheet Metal in the Plane Torsion Test. CIRP Annals - Manufacturing Technology, 1982, 31, 171-174.	1.7	38
64	Microstructure analysis of aluminum extrusion: grain size distribution in AA6060, AA6082 and AA7075 alloys. Journal of Mechanical Science and Technology, 2007, 21, 1445-1451.	0.7	38
65	Hot Extrusion Dies with Conformal Cooling Channels Produced by Additive Manufacturing. Materials Today: Proceedings, 2015, 2, 4838-4846.	0.9	38
66	Application of Continuum Damage Mechanics in discontinuous crack formation: Forward extrusion chevron predictions. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2008, 88, 436-453.	0.9	37
67	Numerical simulation of various cross sectional workpieces using conventional deep drawing and hydroforming technologies. International Journal of Machine Tools and Manufacture, 2008, 48, 532-542.	6.2	36
68	Textured surfaces for deep drawing tools by rolling. International Journal of Machine Tools and Manufacture, 2010, 50, 969-976.	6.2	36
69	Setting Mechanical Properties of High Strength Steels for Rapid Hot Forming Processes. Materials, 2016, 9, 229.	1.3	36
70	Determining cyclic flow curves using the in-plane torsion test. CIRP Annals - Manufacturing Technology, 2015, 64, 261-264.	1.7	34
71	Granular media-based tube press hardening. Journal of Materials Processing Technology, 2016, 228, 145-159.	3.1	34
72	Manufacturing of functional elements by sheet-bulk metal forming processes. Production Engineering, 2016, 10, 63-80.	1.1	33

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73	Global and High-Resolution Damage Quantification in Dual-Phase Steel Bending Samples with Varying Stress States. <i>Metals</i> , 2019, 9, 319.	1.0	33
74	Innovative Machine Concepts for 3D Bending of Tubes and Profiles. <i>Key Engineering Materials</i> , 0, 473, 37-42.	0.4	32
75	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.	4.1	32
76	Residual Stresses in Cold-Formed Workpieces. <i>CIRP Annals - Manufacturing Technology</i> , 1985, 34, 225-230.	1.7	30
77	Recycling of Aluminum Chips by Hot Extrusion with Subsequent Cold Extrusion. <i>Procedia Engineering</i> , 2014, 81, 652-657.	1.2	30
78	Uniform Pressure Electromagnetic Actuator – An Innovative Tool for Magnetic Pulse Welding. <i>Procedia CIRP</i> , 2014, 18, 156-161.	1.0	30
79	Analytical contact pressure model for predicting roughness of ball burnished surfaces. <i>Journal of Materials Processing Technology</i> , 2016, 232, 63-77.	3.1	30
80	Finite element simulation of quench hardening. <i>Steel Research = Archiv F�r Das Eisenh�ttenwesen</i> , 1996, 67, 298-306.	0.2	29
81	Production of low-volume aviation components using disposable electromagnetic actuators. <i>Journal of Materials Processing Technology</i> , 2011, 211, 886-895.	3.1	29
82	Plastic flow and failure in single point incremental forming of PVC sheets. <i>EXPRESS Polymer Letters</i> , 2014, 8, 301-311.	1.1	29
83	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.	2.2	29
84	Experimental and numerical analysis of tribological effective surfaces for forming tools in Sheet-Bulk Metal Forming. <i>Production Engineering</i> , 2016, 10, 37-50.	1.1	29
85	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.	3.1	29
86	Methods for measuring large shear strains in in-plane torsion tests. <i>Journal of Materials Processing Technology</i> , 2021, 287, 116516.	3.1	29
87	Engineering education amid a global pandemic. <i>Advances in Industrial and Manufacturing Engineering</i> , 2021, 3, 100058.	1.2	29
88	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.	0.9	28
89	Friction model selection in FEM simulations of aluminium extrusion. <i>International Journal of Surface Science and Engineering</i> , 2010, 4, 27.	0.4	28
90	Evaluation of Void Nucleation and Development during Plastic Deformation of Dual-Phase Steel DP600. <i>Steel Research International</i> , 2016, 87, 1583-1591.	1.0	28

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91	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.	3.6	27
92	Springback prediction and reduction in deep drawing under influence of unloading modulus degradation. <i>International Journal of Material Forming</i> , 2016, 9, 619-633.	0.9	27
93	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.	0.8	26
94	Vaporizing foil actuator welding as a competing technology to magnetic pulse welding. <i>Journal of Materials Processing Technology</i> , 2016, 230, 8-20.	3.1	26
95	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.	0.9	26
96	Manufacturing of lightweight frame structures by innovative joining by forming processes. <i>International Journal of Material Forming</i> , 2009, 2, 307-310.	0.9	25
97	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.	3.1	25
98	Wear behavior of tribologically optimized tool surfaces for incremental forming processes. <i>Tribology International</i> , 2016, 104, 64-72.	3.0	25
99	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.	2.6	25
100	Joining dissimilar thin-walled tubes by Magnetic Pulse Welding. <i>Journal of Materials Processing Technology</i> , 2020, 279, 116562.	3.1	25
101	Ermittlung von Eigenspannungen in der Kaltmassivumformung. <i>Berichte Aus Dem Institut Für Umforttechnik Universität Stuttgart</i> , 1986, , .	0.1	25
102	Improved relationship between Vickers hardness and yield stress for cold formed materials. <i>Steel Research = Archiv Für Das Eisenhüttenwesen</i> , 2001, 72, 304-310.	0.2	24
103	Three-Dimensional Bending of Profiles with Stress Superposition. <i>International Journal of Material Forming</i> , 2008, 1, 133-136.	0.9	24
104	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.	3.6	24
105	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.	2.4	24
106	Fracture toughness and failure limits in sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2016, 234, 249-258.	3.1	24
107	Enhanced granular medium-based tube and hollow profile press hardening. <i>CIRP Annals - Manufacturing Technology</i> , 2016, 65, 273-276.	1.7	24
108	Flow curves up to high strains considering load reversal and damage. <i>International Journal of Material Forming</i> , 2019, 12, 955-972.	0.9	24

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109	Torsion testing of plastic deformation to high strains and strain rates. <i>Materials Science and Technology</i> , 1985, 1, 972-977.	0.8	23
110	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.	0.9	23
111	Mechanics of sheet-bulk indentation. <i>Journal of Materials Processing Technology</i> , 2014, 214, 2387-2394.	3.1	23
112	Development of a tele-operative testing cell as a remote lab for material characterization. , 2014, , .		23
113	Measurement and analysis technologies for magnetic pulse welding: established methods and new strategies. <i>Advances in Manufacturing</i> , 2016, 4, 322-339.	3.2	23
114	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.	3.1	23
115	Simultaneous deep drawing and cold forging of multi-material components: Draw-forging. <i>CIRP Annals - Manufacturing Technology</i> , 2019, 68, 269-272.	1.7	23
116	Characterization of damage in forward rod extruded parts. <i>International Journal of Material Forming</i> , 2020, 13, 1003-1014.	0.9	23
117	New Aspects of Joining by Compression and Expansion of Tubular Workpieces. <i>International Journal of Material Forming</i> , 2008, 1, 1295-1298.	0.9	22
118	Innovation by forming technology: motivation for research. <i>International Journal of Material Forming</i> , 2009, 2, 29-38.	0.9	22
119	Large strain flow curve identification for sheet metals under complex stress states. <i>Mechanics of Materials</i> , 2021, 161, 103997.	1.7	22
120	Surface reconstruction for incremental forming. <i>Production Engineering</i> , 2007, 1, 71-78.	1.1	21
121	Determination of the flow curve at high strain rates using electromagnetic punch stretching. <i>Journal of Materials Processing Technology</i> , 2012, 212, 1314-1323.	3.1	21
122	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.	1.7	21
123	Joining zone design for electromagnetically crimped connections. <i>Journal of Materials Processing Technology</i> , 2015, 225, 240-261.	3.1	21
124	Tooling concepts to speed up incremental sheet forming. <i>Production Engineering</i> , 2010, 4, 57-64.	1.1	20
125	Platform for e-Learning and Telemetric Experimentation (PeTEX). Tele-operated laboratories for production engineering education. , 2011, , .		20
126	Experimental and Numerical Analysis of Material Flow in Porthole Die Extrusion. <i>Key Engineering Materials</i> , 0, 491, 97-104.	0.4	20

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127	Thermal loads of working coils in electromagnetic sheet metal forming. Journal of Materials Processing Technology, 2014, 214, 2553-2565.	3.1	20
128	Influence of manufacturing processes on material characterization with the grooved in-plane torsion test. International Journal of Mechanical Sciences, 2018, 146-147, 544-555.	3.6	20
129	Predicting weld-quality in direct hot extrusion of aluminium chips. Journal of Materials Processing Technology, 2019, 274, 116294.	3.1	20
130	Damage-induced performance variations of cold forged parts. Journal of Materials Processing Technology, 2020, 279, 116556.	3.1	20
131	Stresses induced by different loadings around weak abutments. Journal of Prosthetic Dentistry, 1992, 68, 879-884.	1.1	19
132	Simulation of tube wrinkling in electromagnetic compression. Production Engineering, 2010, 4, 421-426.	1.1	19
133	Improved Tool Surfaces for Incremental Bulk Forming Processes of Sheet Metals. Key Engineering Materials, 2012, 504-506, 975-980.	0.4	19
134	Dynamic forming limits and numerical optimization of combined quasi-static and impulse metal forming. Computational Materials Science, 2012, 54, 293-302.	1.4	19
135	Friction analysis of thermally sprayed coatings finished by ball burnishing and grinding. Production Engineering, 2013, 7, 601-610.	1.1	19
136	Novel Five-Axis Forming Press for the Incremental Sheet-Bulk Metal Forming. Key Engineering Materials, 0, 554-557, 1478-1483.	0.4	19
137	Magnetic Pulse Welding by Electromagnetic Compression: Determination of the Impact Velocity. Advanced Materials Research, 0, 966-967, 489-499.	0.3	19
138	Joining of lightweight frame structures by die-less hydroforming. International Journal of Material Forming, 2010, 3, 1031-1034.	0.9	18
139	60 Excellent Inventions in Metal Forming. , 2015, , .		18
140	Analysis of the Influence of Fibers on the Formability of Metal Blanks in Manufacturing Processes for Fiber Metal Laminates. Journal of Manufacturing and Materials Processing, 2019, 3, 2.	1.0	18
141	PeTEX@Work: Designing CSCL@Work for Online Engineering Education. , 2013, , 269-292.		18
142	Yield locus evolution and constitutive parameter identification using plane strain tension and tensile tests. Journal of Materials Processing Technology, 2011, 211, 1957-1964.	3.1	17
143	Analytical Prediction of Roughness after Ball Burnishing of Thermally Coated Surfaces. Procedia Engineering, 2014, 81, 1921-1926.	1.2	17
144	Investigations on the Manufacturability of Thin Press Hardened Steel Components. Procedia CIRP, 2014, 18, 74-79.	1.0	17

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145	Adiabatic blanking of advanced high-strength steels. CIRP Annals - Manufacturing Technology, 2020, 69, 269-272.	1.7	17
146	Service life estimation of extrusion dies by numerical simulation of fatigue-crack-growth. International Journal of Mechanical Sciences, 1996, 38, 527-538.	3.6	16
147	Extrusion Benchmark 2009 Experimental Analysis of Deflection in Extrusion Dies. Key Engineering Materials, 0, 424, 19-26.	0.4	16
148	The Effect of Extrusion Ratio and Material Flow on the Mechanical Properties of Aluminum Profiles Solid State Recycled from 6060 Aluminum Alloy Chips. AIP Conference Proceedings, 2011, , .	0.3	16
149	High wear resistant deep drawing tools made of coated polymers. CIRP Annals - Manufacturing Technology, 2011, 60, 311-314.	1.7	16
150	Extending the Flexibility in the Composite Extrusion Process. Procedia CIRP, 2014, 18, 33-38.	1.0	16
151	Application of the bending theory on square-hollow sections made from high-strength steel with a changing angle of the bending plane. Journal of Materials Processing Technology, 2014, 214, 2505-2513.	3.1	16
152	Comparison of various preforms for hot forging of bearing rings. Journal of Materials Processing Technology, 2005, 169, 72-82.	3.1	15
153	Finite deformation plasticity coupled with isotropic damage: Formulation in principal axes and applications. Finite Elements in Analysis and Design, 2010, 46, 668-683.	1.7	15
154	A damage coupled orthotropic finite plasticity model for sheet metal forming: CDM approach. Computational Materials Science, 2010, 48, 150-165.	1.4	15
155	The non-hydrostatic response of polymer melts as a pressure medium in sheet metal forming. Production Engineering, 2012, 6, 385-394.	1.1	15
156	Innovative Tools to Improve Incremental Bulk Forming Processes. Key Engineering Materials, 0, 554-557, 1490-1497.	0.4	15
157	Formability prediction of AL7020 with experimental and numerical failure criteria. Journal of Materials Processing Technology, 2015, 218, 80-88.	3.1	15
158	Incipient and repeatable plastic flow in incremental sheet-bulk forming of gears. International Journal of Advanced Manufacturing Technology, 2016, 86, 3091-3100.	1.5	15
159	Development of forming and product properties of copper wire in a linear coil winding process. , 2017, , .		15
160	Interaction of Process Parameters, Forming Mechanisms, and Residual Stresses in Single Point Incremental Forming. Metals, 2020, 10, 656.	1.0	15
161	Distortion and Dilution Behavior for Laser Metal Deposition onto Thin Sheet Metals. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 625-634.	2.7	15
162	Analysis of the Hydraulic Bulge Test with FEA Concerning the Accuracy of the Determined Flow Curves. Key Engineering Materials, 0, 410-411, 439-447.	0.4	14

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163	Combination of curved profile extrusion and composite extrusion for increased lightweight properties. <i>Production Engineering</i> , 2009, 3, 63-68.	1.1	14
164	3D Numerical Analysis of 2D Profile Bending with the Torque Superposed Spatial Bending Method. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2013, 59, 139-147.	0.6	14
165	Closed loop springback control in progressive die bending by induction heating. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 2441-2449.	1.1	14
166	Analysis of shear cutting of dual phase steel by application of an advanced damage model. <i>Procedia Structural Integrity</i> , 2016, 2, 1700-1707.	0.3	14
167	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.	3.1	14
168	Particle Ejection by Jetting and Related Effects in Impact Welding Processes. <i>Metals</i> , 2020, 10, 1108.	1.0	14
169	Shape optimization with the biological growth method: a parameter study. <i>Engineering Computations</i> , 1996, 13, 4-18.	0.7	13
170	Development of ultra high performance concrete dies for sheet metal hydroforming. <i>Production Engineering</i> , 2008, 2, 201-208.	1.1	13
171	Modeling of dynamic microstructure evolution of EN AW-6082 alloy during hot forward extrusion. <i>Computational Materials Science</i> , 2011, 50, 1520-1525.	1.4	13
172	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	13
173	Manufacturing of Steel-Reinforced Aluminum Products by Combining Hot Extrusion and Closed-Die Forging. <i>Key Engineering Materials</i> , 0, 504-506, 481-486.	0.4	13
174	Modeling Approach for the Determination of Material Flow and Welding Conditions in Porthole Die Extrusion with Gas Pocket Formation. <i>Key Engineering Materials</i> , 0, 554-557, 787-793.	0.4	13
175	Improvement strategies for the formfilling in incremental gear forming processes. <i>Production Engineering</i> , 2017, 11, 623-631.	1.1	13
176	The reciprocal effects of bending and torsion on springback during 3D bending of profiles. <i>Procedia Engineering</i> , 2017, 207, 2322-2327.	1.2	13
177	Influence of tool path strategies on the residual stress development in single point incremental forming. <i>Procedia Manufacturing</i> , 2019, 29, 53-58.	1.9	13
178	Thermal Effects in Dissimilar Magnetic Pulse Welding. <i>Metals</i> , 2019, 9, 348.	1.0	13
179	Interface Formation during Collision Welding of Aluminum. <i>Metals</i> , 2020, 10, 1202.	1.0	13
180	New incremental methods for springback compensation by stress superposition. <i>Production Engineering</i> , 2009, 3, 137-144.	1.1	12

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181	New incremental methods for springback compensation by stress superposition. International Journal of Material Forming, 2009, 2, 817-820.	0.9	12
182	Extrusion Benchmark 2013 - Experimental Analysis of Mandrel Deflection, Local Temperature and Pressure in Extrusion Dies. Key Engineering Materials, 0, 585, 13-22.	0.4	12
183	Fracture Loci in Sheet Metal Forming: A Review. Acta Metallurgica Sinica (English Letters), 2015, 28, 1415-1425.	1.5	12
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