

Jianguo Lin

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.

179
papers

2,810
citations

28
h-index

45
g-index

185
ext. papers

3,520
ext. citations

3.8
avg, IF

5.78
L-index

#	Paper	IF	Citations
179	Experimental and numerical investigations on buckling behaviour of stiffened panel during creep age forming. <i>Thin-Walled Structures</i> , 2022 , 172, 108940	4.7	0
178	Investigation of stress effect on creep, precipitation and dislocation evolution of AlSi alloy during creep age forming. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 836, 142723	5.3	0
177	Experimental studies of necking and fracture limits of boron steel sheet under hot stamping conditions. <i>Journal of Materials Processing Technology</i> , 2022 , 302, 117481	5.3	2
176	Tool path planning of consecutive free-form sheet metal stamping with deep learning. <i>Journal of Materials Processing Technology</i> , 2022 , 303, 117530	5.3	1
175	An upper bound solution for deformation field analysis in differential velocity sideways extrusion using a unified stream function. <i>International Journal of Mechanical Sciences</i> , 2022 , 107323	5.5	0
174	Investigation of deformation behaviour with yield point phenomenon in cold-rolled medium-Mn steel under hot stamping conditions. <i>Journal of Materials Processing Technology</i> , 2022 , 306, 117623	5.3	0
173	Clarification of the effect of temperature and strain rate on workpiece deformation behaviour in metal forming processes. <i>International Journal of Machine Tools and Manufacture</i> , 2021 , 171, 103815	9.4	4
172	Advances and Trends in Forming Curved Extrusion Profiles. <i>Materials</i> , 2021 , 14,	3.5	8
171	Deep Learning in Sheet Metal Bending With a Novel Theory-Guided Deep Neural Network. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021 , 8, 565-581	7	9
170	Modeling and Optimization Methods in Forming Processes 2021 , 237-251		
169	HR-STEM investigation of atomic lattice defects in different types of β precipitates in creep-age forming Al ₇₀ Mg ₁₀ Cu aluminium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 815, 141213	5.3	4
168	Challenges in additive manufacturing of high-strength aluminium alloys and current developments in hybrid additive manufacturing. <i>International Journal of Lightweight Materials and Manufacture</i> , 2021 , 4, 246-261	2.2	20
167	A novel spatio-temporal method for determining necking and fracture strains of sheet metals. <i>International Journal of Mechanical Sciences</i> , 2021 , 189, 105977	5.5	6
166	Effect of cruciform specimen design on strain paths and fracture location in equi-biaxial tension. <i>Journal of Materials Processing Technology</i> , 2021 , 289, 116932	5.3	5
165	Experimental Study and Modelling of Stress Relaxation Ageing Behaviour and Post-form Mechanical Properties in Creep Age Forming of Al-Zn-Mg Alloy. <i>Minerals, Metals and Materials Series</i> , 2021 , 877-889	0.3	
164	An effective method for determining necking and fracture strains of sheet metals. <i>MethodsX</i> , 2021 , 8, 101234	1.9	1
163	Review of recent developments in manufacturing lightweight multi-metal gears. <i>Production Engineering</i> , 2021 , 15, 235-262	1.9	1

162	Process parameters effect on high-temperature friction and galling characteristics of AA7075 sheets. <i>Materials and Manufacturing Processes</i> , 2021 , 36, 967-978	4.1	0
161	Elastic-plastic buckling analysis of stiffened panel subjected to global bending in forming process. <i>Aerospace Science and Technology</i> , 2021 , 115, 106781	4.9	3
160	A comparative study on deformation mechanisms, microstructures and mechanical properties of wide thin-ribbed sections formed by sideways and forward extrusion. <i>International Journal of Machine Tools and Manufacture</i> , 2021 , 168, 103771	9.4	13
159	Constitutive modelling and its application to stress-relaxation age forming of AA6082 with elastic and plastic loadings. <i>Journal of Materials Processing Technology</i> , 2021 , 295, 117168	5.3	5
158	Solid-state welding and microstructural features of an aluminium alloy subjected to a novel two-billet differential velocity sideways extrusion process. <i>Journal of Materials Processing Technology</i> , 2021 , 296, 117189	5.3	1
157	Investigation of austenitising behaviour of medium-Mn steel in the hot-stamping heating process. <i>Journal of Materials Processing Technology</i> , 2021 , 297, 117269	5.3	6
156	Biaxial test method for determination of FLCs and FFLCs for sheet metals: validation against standard Nakajima method. <i>International Journal of Mechanical Sciences</i> , 2021 , 209, 106694	5.5	3
155	A universal mass-based index defining energy efficiency of different modes of passenger transport. <i>International Journal of Lightweight Materials and Manufacture</i> , 2021 , 4, 423-433	2.2	1
154	Stress-Relaxation Age Forming of a Component with Complex and Large Curvatures: Simulation and Manufacturing. <i>Minerals, Metals and Materials Series</i> , 2021 , 921-934	0.3	
153	Development of novel differential velocity sideway extrusion techniques to fabricate lightweight curved structural components. <i>Procedia Manufacturing</i> , 2020 , 50, 125-128	1.5	2
152	Investigation of material flow behaviour and microstructure during differential velocity sideway extrusion. <i>Procedia Manufacturing</i> , 2020 , 50, 226-230	1.5	
151	Reinforcement learning in free-form stamping of sheet-metals. <i>Procedia Manufacturing</i> , 2020 , 50, 444-449	5	
150	FE Simulation of the residual stress reduction in industrial-sized T-section component during a newly proposed manufacturing process. <i>Procedia Manufacturing</i> , 2020 , 50, 492-497	1.5	0
149	A study on ratio and linearity of strain path in in-plane biaxial tensile test for formability evaluation. <i>Procedia Manufacturing</i> , 2020 , 50, 584-588	1.5	1
148	An investigation of damage healing in high temperature compressive forming process. <i>Procedia Manufacturing</i> , 2020 , 50, 602-608	1.5	1
147	On the lower limit of misorientation of grain boundaries in hot forging of AA7050. <i>Procedia Manufacturing</i> , 2020 , 50, 744-748	1.5	
146	An experimental and numerical study of feasibility of a novel technology to manufacture hot stamping dies with pre-constructed tube network. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 111, 2919-2937	3.2	3
145	The study of flow behavior and governing mechanisms of a titanium alloy during superplastic forming. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 788, 139482	5.3	17

144	Effects of die land length and geometry on curvature and effective strain of profiles produced by a novel sideways extrusion process. <i>Journal of Materials Processing Technology</i> , 2020 , 282, 116682	5.3	12
143	Predictions of the Mechanical Response of Sintered FGH96 Powder Compacts. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2020 , 142,	1.8	3
142	A review on solid riveting techniques in aircraft assembling. <i>Manufacturing Review</i> , 2020 , 7, 40	1.4	0
141	Using novel strain aging kinetics models to determine the effect of solution temperature on critical strain of Al-Zn-Mg-Cu alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155647	5.7	6
140	Stress and temperature dependence of stress relaxation ageing behaviour of an AlZnMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 773, 138859	5.3	9
139	A study of various heating effects on the microstructure and mechanical properties of AA6082 using EBSD and CPFE. <i>Journal of Alloys and Compounds</i> , 2020 , 818, 152921	5.7	4
138	A study on central crack formation in cross wedge rolling. <i>Journal of Materials Processing Technology</i> , 2020 , 279, 116549	5.3	16
137	A CDRX-based material model for hot deformation of aluminium alloys. <i>International Journal of Plasticity</i> , 2020 , 134, 102844	7.6	4
136	Rheological behavior and dynamic softening mechanism of AA7075 sheet under isothermal tensile deformation. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 9784-9797	5.5	9
135	Damage in advanced processing technologies 2020 , 143-172		
134	A Review of Microstructural Evolution and Modelling of Aluminium Alloys under Hot Forming Conditions. <i>Metals</i> , 2020 , 10, 1516	2.3	9
133	Study of the Effects of Hot Forging on the Additively Manufactured Stainless Steel Preforms. <i>Journal of Manufacturing Processes</i> , 2020 , 57, 668-676	5	13
132	Microstructure evolution and mechanical properties of Ti2AlNb/TiAl brazed joint using newly-developed TiNiNbZr filler alloy. <i>Progress in Natural Science: Materials International</i> , 2020 , 30, 410-416	3.6	4
131	Constitutive modeling for the simulation of the superplastic forming of TA15 titanium alloy. <i>International Journal of Mechanical Sciences</i> , 2019 , 164, 105178	5.5	19
130	Experimental investigation and modelling of yield strength and work hardening behaviour of artificially aged Al-Cu-Li alloy. <i>Materials and Design</i> , 2019 , 183, 108121	8.1	18
129	Experimental investigation of novel fast-ageing treatments for AA6082 in supersaturated solid solution state. <i>Journal of Alloys and Compounds</i> , 2019 , 810, 151934	5.7	6
128	An atomic scale structural investigation of nanometre-sized β precipitates in the 7050 aluminium alloy. <i>Acta Materialia</i> , 2019 , 174, 351-368	8.4	55
127	The effect of hot form quench (HFQ) conditions on precipitation and mechanical properties of aluminium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 138017	5.3	24

126	An experimental investigation of the drawability of AA6082 sheet under different elevated temperature forming processes. <i>Journal of Materials Processing Technology</i> , 2019 , 273, 116225	5.3	14
125	Effect of initial tempers on mechanical properties of creep-aged AA2050. <i>Manufacturing Review</i> , 2019 , 6, 8	1.4	1
124	Development of similarity-based scaling criteria for creep age forming of large/extra-large panels. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 101, 1537-1551	3.2	1
123	A novel manufacturing process and validated predictive model for high-strength and low-residual stresses in extra-large 7xxx panels. <i>Materials and Design</i> , 2019 , 173, 107767	8.1	6
122	Manufacturing a curved profile with fine grains and high strength by differential velocity sideways extrusion. <i>International Journal of Machine Tools and Manufacture</i> , 2019 , 140, 77-88	9.4	30
121	Effect of pin arrangement on formed shape with sparse multi-point flexible tool for creep age forming. <i>International Journal of Machine Tools and Manufacture</i> , 2019 , 140, 48-61	9.4	10
120	Experimental investigations of stress-relaxation ageing behaviour of AA6082. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 750, 108-116	5.3	16
119	An analytical solution for elastic buckling analysis of stiffened panel subjected to pure bending. <i>International Journal of Mechanical Sciences</i> , 2019 , 161-162, 105024	5.5	6
118	Friction Stir Welding between 6082 and 7075 Aluminum Alloys Thermal Treated for Automotive Applications. <i>Materials Performance and Characterization</i> , 2019 , 8, 20180179	0.5	6
117	An accelerated springback compensation method for creep age forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 121-134	3.2	10
116	Cold rolling influence on residual stresses evolution in heat-treated AA7xxx T-section panels. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 431-446	4.1	6
115	An investigation of creep age forming of AA7B04 stiffened plates: Experiment and FE modelling. <i>Journal of Manufacturing Processes</i> , 2019 , 37, 232-241	5	15
114	An experimental investigation on the deformation and post-formed strength of heat-treatable aluminium alloys using different elevated temperature forming processes. <i>Journal of Materials Processing Technology</i> , 2019 , 268, 87-96	5.3	33
113	Quantification of thermal residual stresses relaxation in AA7xxx aluminium alloy through cold rolling. <i>Journal of Materials Processing Technology</i> , 2019 , 264, 454-468	5.3	22
112	FE simulation of asymmetric creep-ageing behaviour of AA2050 and its application to creep age forming. <i>International Journal of Mechanical Sciences</i> , 2018 , 140, 228-240	5.5	21
111	Transmission electron microscopy investigation of separated nucleation and in-situ nucleation in AA7050 aluminium alloy. <i>Acta Materialia</i> , 2018 , 149, 377-387	8.4	71
110	A novel constitutive model for multi-step stress relaxation ageing of a pre-strained 7xxx series alloy. <i>International Journal of Plasticity</i> , 2018 , 106, 31-47	7.6	44
109	Analysis and modelling of a novel process for extruding curved metal alloy profiles. <i>International Journal of Mechanical Sciences</i> , 2018 , 138-139, 524-536	5.5	24

108	A review on forming techniques for manufacturing lightweight complex-shaped aluminium panel components. <i>International Journal of Lightweight Materials and Manufacture</i> , 2018 , 1, 55-80	2.2	79
107	Upper bound analysis of differential velocity sideways extrusion process for curved profiles using a fan-shaped flow line model. <i>International Journal of Lightweight Materials and Manufacture</i> , 2018 , 1, 21-32 ²	3.2	7
106	Formability and microstructure evolution mechanisms of Ti6Al4V alloy during a novel hot stamping process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 719, 72-81	5.3	29
105	A study of interfacial heat transfer and its effect on quenching when hot stamping AA7075. <i>Archives of Civil and Mechanical Engineering</i> , 2018 , 18, 723-730	3.4	15
104	Density-based constitutive modelling of P/M FGH96 for powder forging. <i>International Journal of Mechanical Sciences</i> , 2018 , 138-139, 110-121	5.5	6
103	Experimental investigation of forming limit curves and deformation features in warm forming of an aluminium alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018 , 232, 465-474	2.4	26
102	An integrated model to predict residual stress reduction by multiple cold forging operations in extra-large AA7050 T-section panels. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018 , 232, 1319-1330	2.4	7
101	An analysis of the tooth stress distribution of forged bi-metallic gears. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018 , 232, 124-139	1.3	8
100	Strain measurement and error analysis in thermo-mechanical tensile tests of sheet metals for hot stamping applications. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018 , 232, 1994-2008	1.3	10
99	Experimental investigation of multi-step stress-relaxation-ageing of 7050 aluminium alloy for different pre-strained conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 710, 111-120	5.3	26
98	Morphological evolution of GP zones and nanometer-sized precipitates in the AA2050 aluminium alloy. <i>International Journal of Lightweight Materials and Manufacture</i> , 2018 , 1, 142-156	2.2	9
97	Experimental Investigations of the In-Die Quenching Efficiency and Die Surface Temperature of Hot Stamping Aluminium Alloys. <i>Metals</i> , 2018 , 8, 231	2.3	10
96	A review on modelling techniques for formability prediction of sheet metal forming. <i>International Journal of Lightweight Materials and Manufacture</i> , 2018 , 1, 115-125	2.2	35
95	Feasibility studies of a novel extrusion process for curved profiles: Experimentation and modelling. <i>International Journal of Machine Tools and Manufacture</i> , 2018 , 126, 27-43	9.4	38
94	Feasibility study of a novel hot stamping process for Ti6Al4V alloy. <i>MATEC Web of Conferences</i> , 2018 , 190, 08001	0.3	1
93	Experimental and modelling techniques for hot stamping applications. <i>Procedia Manufacturing</i> , 2018 , 15, 6-13	1.5	3
92	Investigation on evolution of the alpha phase during cross wedge rolling of TC6 blade perform. <i>Procedia Manufacturing</i> , 2018 , 15, 168-175	1.5	2
91	Experimental and numerical study of creep age forming of AA2050 plates with sparse multi-point flexible forming tool. <i>Procedia Manufacturing</i> , 2018 , 15, 1016-1023	1.5	1

90	Simulation of austenite formation of 60Si2CrA steel using internal state variable model. <i>Procedia Manufacturing</i> , 2018 , 15, 1872-1878	1.5	
89	Static recrystallization study on pure aluminium using crystal plasticity finite element and phase-field modelling. <i>Procedia Manufacturing</i> , 2018 , 15, 1800-1807	1.5	3
88	Feasibility study on direct flame impingement heating applied for the solution heat treatment, forming and cold die quenching technique. <i>Journal of Manufacturing Processes</i> , 2018 , 36, 398-404	5	18
87	Effect of initial temper on mechanical properties of creep-aged Al-Cu-Li alloy AA2050. <i>MATEC Web of Conferences</i> , 2018 , 190, 12006	0.3	1
86	Experimental studies of the efficient use of flexible tool in creep age forming. <i>MATEC Web of Conferences</i> , 2018 , 190, 13002	0.3	1
85	Effect of the thickness reduction of specimens on the limit strains in thermomechanical tensile tests for hot-stamping studies. <i>Manufacturing Review</i> , 2018 , 5, 11	1.4	1
84	A review of force reduction methods in precision forging axisymmetric shapes. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 2809-2833	3.2	16
83	Effect of machining-induced residual stress on springback of creep age formed AA2050 plates with asymmetric creep-ageing behaviour. <i>International Journal of Machine Tools and Manufacture</i> , 2018 , 132, 113-122	9.4	17
82	An experimental and numerical investigation of the effect of macro-textured tool surfaces in hot stamping. <i>International Journal of Material Forming</i> , 2017 , 10, 241-254	2	10
81	An investigation of involute and lead deflection in hot precision forging of gears. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 3017-3030	3.2	6
80	Direct powder forging of PM nickel-based superalloy: densification and recrystallisation. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 2661-2670	3.2	7
79	Extended application of a unified creep-ageing constitutive model to multistep heat treatment of aluminium alloys. <i>Materials and Design</i> , 2017 , 122, 422-432	8.1	25
78	A buckling model for flange wrinkling in hot deep drawing aluminium alloys with macro-textured tool surfaces. <i>International Journal of Machine Tools and Manufacture</i> , 2017 , 114, 21-34	9.4	25
77	An analytical investigation on the wrinkling of aluminium alloys during stamping using macro-scale structural tooling surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 481-495	9.2	5
76	A unified constitutive model for asymmetric tension and compression creep-ageing behaviour of naturally aged Al-Cu-Li alloy. <i>International Journal of Plasticity</i> , 2017 , 89, 130-149	7.6	73
75	Prediction of microstructure and ductile damage of a high-speed railway axle steel during cross wedge rolling. <i>Journal of Materials Processing Technology</i> , 2017 , 239, 359-369	5.3	29
74	Microstructure evolution and constitutive equations for the high-temperature deformation of 5Cr21Mn9Ni4N heat-resistant steel. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 674-687	5.7	37
73	Experimental investigations on hot forming of AA6082 using advanced plasma nitrocarburised and CAPVD WC: C coated tools. <i>Journal of Materials Processing Technology</i> , 2017 , 240, 190-199	5.3	27

72	Springback analysis of AA5754 after hot stamping: experiments and FE modelling. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 89, 1339-1352	3.2	34
71	Formability evaluation for sheet metals under hot stamping conditions by a novel biaxial testing system and a new materials model. <i>International Journal of Mechanical Sciences</i> , 2017 , 120, 149-158	5.5	42
70	Effect of mandrel diameter on non-circularity of hollow shafts in cross wedge rolling. <i>Procedia Engineering</i> , 2017 , 207, 2376-2381		10
69	An integrated method for net-shape manufacturing components combining 3D additive manufacturing and compressive forming processes. <i>Procedia Engineering</i> , 2017 , 207, 1182-1187		17
68	Constitutive modelling of a T74 multi-step creep ageing behaviour of AA7050 and its application to stress relaxation ageing in age formed aluminium components. <i>Procedia Engineering</i> , 2017 , 207, 281-286		3
67	The optimisation of cruciform specimen for the formability evaluation of AA6082 under hot stamping conditions. <i>Procedia Engineering</i> , 2017 , 207, 735-740		5
66	A novel application of sideways extrusion to produce curved aluminium profiles: Feasibility study. <i>Procedia Engineering</i> , 2017 , 207, 2304-2309		16
65	Comparison of creep deformation rates during load and strain controlled multi-step creep ageing tests on AA7050 2017 ,		3
64	Formability investigation using a new test design for hot stamping processes. <i>International Journal of Materials and Product Technology</i> , 2017 , 54, 3	1	
63	A study on the buckling behaviour of aluminium alloy sheet in deep drawing with macro-textured blankholder. <i>International Journal of Mechanical Sciences</i> , 2016 , 110, 138-150	5.5	16
62	Experimental investigation of boron steel at hot stamping conditions. <i>Journal of Materials Processing Technology</i> , 2016 , 228, 2-10	5.3	27
61	Knowledge Based Cloud FE Simulation of Sheet Metal Forming Processes. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	4
60	The process parameters effect of ovality in cross wedge rolling for hollow valve without mandril. <i>MATEC Web of Conferences</i> , 2016 , 80, 13003	0.3	5
59	Hot stamping of AA6082 tailor welded blanks: experiment and FE simulation. <i>Manufacturing Review</i> , 2016 , 3, 8	1.4	8
58	Unified constitutive modelling for two-phase lamellar titanium alloys at hot forming conditions. <i>Manufacturing Review</i> , 2016 , 3, 14	1.4	5
57	An Investigation of Deformation Effects on Phase Transformation in Hot Stamping Processes. <i>SAE International Journal of Materials and Manufacturing</i> , 2016 , 9, 501-505	1	3
56	Determination of a Set of Constitutive Equations for an Al-Li Alloy at SPF Conditions. <i>Materials Today: Proceedings</i> , 2015 , 2, S408-S413	1.4	3
55	A new application of unified constitutive equations for cross wedge rolling of a high-speed railway axle steel. <i>Journal of Materials Processing Technology</i> , 2015 , 223, 274-283	5.3	39

54	Creep-age forming AA2219 plates with different stiffener designs and pre-form age conditions: Experimental and finite element studies. <i>Journal of Materials Processing Technology</i> , 2015 , 219, 155-163	5.3	45
53	Effect of forming parameters on electron beam Surfing-Sculpt protrusion for Ti6Al4V. <i>Materials & Design</i> , 2015 , 76, 202-206		11
52	A method for designing lightweight and flexible creep-age forming tools using mechanical splines and sparse controlling points. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 80, 361-372	3.2	12
51	Micro-mechanics Modeling for Micro-forming Processes 2015 , 733-748		
50	Size-dependent mechanical properties in AA6082 tailor welded specimens. <i>Journal of Materials Processing Technology</i> , 2015 , 224, 169-180	5.3	10
49	Influences of residual stresses and initial distortion on springback prediction of 7B04-T651 aluminium plates in creep-age forming. <i>International Journal of Mechanical Sciences</i> , 2015 , 103, 115-126	5.5	23
48	A study of direct forging process for powder superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 621, 68-75	5.3	26
47	An investigation of a new 2D CDM model in predicting failure in HFQing of an automotive panel. <i>MATEC Web of Conferences</i> , 2015 , 21, 05011	0.3	3
46	HFQ forming of AA6082 tailor welded blanks. <i>MATEC Web of Conferences</i> , 2015 , 21, 05006	0.3	2
45	Investigation on fast and energy-efficient heat treatments of AA6082 in HFQ processes for automotive applications. <i>MATEC Web of Conferences</i> , 2015 , 21, 05015	0.3	10
44	Constitutive modelling of creep-ageing behaviour of peak-aged aluminium alloy 7050. <i>MATEC Web of Conferences</i> , 2015 , 21, 12008	0.3	2
43	Analysis of new Gleeble tensile specimen design for hot stamping application. <i>MATEC Web of Conferences</i> , 2015 , 21, 05013	0.3	3
42	Material modelling and its application to creep-age forming of aluminium alloy 7B04. <i>Manufacturing Review</i> , 2015 , 2, 19	1.4	4
41	Material modelling for creep-age forming of aluminium alloy 7B04. <i>MATEC Web of Conferences</i> , 2015 , 21, 12006	0.3	1
40	Modelling and experimental research in hot precision forging of shaft gear. <i>MATEC Web of Conferences</i> , 2015 , 21, 02005	0.3	0
39	An experimental investigation for macro-textured tool in hot stamping. <i>MATEC Web of Conferences</i> , 2015 , 21, 05005	0.3	
38	Fundamentals of Materials Modelling for Metals Processing Technologies 2015 ,		13
37	Investigation of the effects of thermal gradients present in Gleeble high-temperature tensile tests on the strain state for free cutting steel. <i>Journal of Strain Analysis for Engineering Design</i> , 2014 , 49, 521-532	1.3	18

36	Numerical study of the solution heat treatment, forming, and in-die quenching (HFQ) process on AA5754. <i>International Journal of Machine Tools and Manufacture</i> , 2014 , 87, 39-48	9.4	111
35	In-situ Micro-tensile Testing and X-ray Micro-tomography based FE Modeling of Open-cell Metal Foam Struts and Sandwich Panels 2014 , 4, 197-202		2
34	An investigation into the forging of Bi-metal gears. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 2248-2260	5.3	31
33	Life cycle assessment of the potential environmental benefits of a novel hot forming process in automotive manufacturing. <i>Journal of Cleaner Production</i> , 2014 , 83, 80-86	10.3	34
32	In situ microtensile testing and X-ray microtomography-based finite element modelling of open-cell metal foam struts and sandwich panels. <i>Journal of Strain Analysis for Engineering Design</i> , 2014 , 49, 592-606	1.3	10
31	Materials Modelling for Selective Heating and Press Hardening of Boron Steel Panels with Graded Microstructures. <i>Procedia Engineering</i> , 2014 , 81, 1675-1681		14
30	Damage Investigation of Boron Steel at Hot Stamping Conditions. <i>Procedia Engineering</i> , 2014 , 81, 1744-1749		8
29	Predicting Effect of Temperature, Strain Rate and Strain Path Changes on Forming Limit of Lightweight Sheet Metal Alloys. <i>Procedia Engineering</i> , 2014 , 81, 736-741		15
28	A New Test Design for Assessing Formability of Materials in Hot Stamping. <i>Procedia Engineering</i> , 2014 , 81, 1689-1694		9
27	Optimization of an aluminum alloy anti-collision side beam hot stamping process using a multi-objective genetic algorithm. <i>Archives of Civil and Mechanical Engineering</i> , 2013 , 13, 401-411	3.4	42
26	The effect of morphological imperfections on damage in 3D FE analysis of open-cell metal foam core sandwich panels. <i>International Journal of Mechanical Sciences</i> , 2013 , 75, 377-387	5.5	2
25	An Approach for Modelling Carbon Homogenization Processes of Steel in Micro-Scale 2013 , 3081-3090		
24	Prediction and assessment of springback in typical creep age forming tools. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2013 , 227, 1340-1348	2.4	4
23	The Effect of Process and Model Parameters in Temperature Prediction for Hot Stamping of Boron Steel. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 829379	1.2	3
22	Study on Springback Behavior in Creep Age Forming of Aluminium Sheets. <i>Advanced Science Letters</i> , 2013 , 19, 75-79	0.1	3
21	Micromechanical Modelling of Void Healing. <i>Advanced Structured Materials</i> , 2013 , 1-8	0.6	2
20	An Investigation of the Mechanical Properties of Open Cell Aluminium Foam Struts: Microtensile Testing and Modelling. <i>Advanced Structured Materials</i> , 2013 , 53-63	0.6	
19	Investigation of deformation and failure features in hot stamping of AA6082: Experimentation and modelling. <i>International Journal of Machine Tools and Manufacture</i> , 2012 , 53, 27-38	9.4	193

18	Experimental and numerical investigation of localized thinning in hydroforming of micro-tubes. <i>European Journal of Mechanics, A/Solids</i> , 2012 , 31, 67-76	3.7	28
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