

# LiLiang Wang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6504596/liliang-wang-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

90  
papers

1,235  
citations

18  
h-index

30  
g-index

93  
ext. papers

1,514  
ext. citations

3.5  
avg, IF

4.79  
L-index

#	Paper	IF	Citations
90	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> , <b>2014</b> , 87, 39-48	9.4	111
89	Formability and failure mechanisms of AA2024 under hot forming conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 2648-2656	5.3	105
88	A review on forming techniques for manufacturing lightweight complex-shaped aluminium panel components. <i>International Journal of Lightweight Materials and Manufacture</i> , <b>2018</b> , 1, 55-80	2.2	79
87	The friction coefficient evolution of a TiN coated contact during sliding wear. <i>Applied Surface Science</i> , <b>2015</b> , 345, 109-115	6.7	53
86	Effect of temperature on the frictional behaviour of an aluminium alloy sliding against steel during ball-on-disc tests. <i>Tribology International</i> , <b>2010</b> , 43, 299-306	4.9	40
85	Determination of the interfacial heat transfer coefficient for a hot aluminium stamping process. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 247, 158-170	5.3	39
84	Feasibility studies of a novel extrusion process for curved profiles: Experimentation and modelling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2018</b> , 126, 27-43	9.4	38
83	Determination of hot deformation behavior and processing maps of IN 028 alloy using isothermal hot compression test. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 595, 92-98	5.3	37
82	Friction in aluminium extrusion Part 1: A review of friction testing techniques for aluminium extrusion. <i>Tribology International</i> , <b>2012</b> , 56, 89-98	4.9	36
81	Life cycle assessment of the potential environmental benefits of a novel hot forming process in automotive manufacturing. <i>Journal of Cleaner Production</i> , <b>2014</b> , 83, 80-86	10.3	34
80	Springback analysis of AA5754 after hot stamping: experiments and FE modelling. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 89, 1339-1352	3.2	34
79	Formability and microstructure evolution mechanisms of Ti6Al4V alloy during a novel hot stamping process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 719, 72-81	5.3	29
78	Analysis and modelling of a novel process for extruding curved metal alloy profiles. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 138-139, 524-536	5.5	24
77	Characteristics of the Friction Between Aluminium and Steel at Elevated Temperatures During Ball-on-Disc Tests. <i>Tribology Letters</i> , <b>2009</b> , 36, 183-190	2.8	21
76	Development of an interactive friction model for the prediction of lubricant breakdown behaviour during sliding wear. <i>Tribology International</i> , <b>2017</b> , 110, 370-377	4.9	20
75	Effect of porosities on tensile properties of laser-welded Al-Li alloy: an experimental and modelling study. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 95, 659-671	3.2	19
74	Friction in aluminium extrusion Part 2: A review of friction models for aluminium extrusion. <i>Tribology International</i> , <b>2012</b> , 56, 99-106	4.9	19

73	The isothermal forming process of V-shaped aluminum alloy joint forgings. <i>Jom</i> , <b>2011</b> , 63, 62-65	2.1	19
72	Forming limit prediction for hot stamping processes featuring non-isothermal and complex loading conditions. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 131-132, 792-810	5.5	18
71	Experimental and modelling study of an approach to enhance gas bulging formability of TA15 titanium alloy tube based on dynamic recrystallization. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 259, 387-396	5.3	17
70	Effect of melt conditioning on heat treatment and mechanical properties of AZ31 alloy strips produced by twin roll casting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 620, 223-232	5.3	16
69	A novel application of sideways extrusion to produce curved aluminium profiles: Feasibility study. <i>Procedia Engineering</i> , <b>2017</b> , 207, 2304-2309		16
68	Modelling of plowing and shear friction coefficients during high-temperature ball-on-disc tests. <i>Tribology International</i> , <b>2009</b> , 42, 15-22	4.9	16
67	Determination of Heat Transfer Coefficient for Hot Stamping Process. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, S434-S439	1.4	15
66	Identification of a friction model for the bearing channel of hot aluminium extrusion dies by using ball-on-disc tests. <i>Tribology International</i> , <b>2012</b> , 50, 66-75	4.9	15
65	Hot stamping of AA6082 tailor welded blanks: Experiments and knowledge-based cloud finite element (KBC-FE) simulation. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 250, 228-238	5.3	15
64	Predicting Effect of Temperature, Strain Rate and Strain Path Changes on Forming Limit of Lightweight Sheet Metal Alloys. <i>Procedia Engineering</i> , <b>2014</b> , 81, 736-741		15
63	Effect of recrystallization on hot deformation mechanism of TA15 titanium alloy under uniaxial tension and biaxial gas bulging conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 708, 149-158	5.3	14
62	Review on additive manufacturing of tooling for hot stamping. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 109, 87-107	3.2	14
61	Development of the post-form strength prediction model for a high-strength 6xxx aluminium alloy with pre-existing precipitates and residual dislocations. <i>International Journal of Plasticity</i> , <b>2019</b> , 119, 230-248	7.6	13
60	Transition of failure mode in hot stamping of AA6082 tailor welded blanks. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 257, 33-44	5.3	13
59	Multi-objective finite element simulations of a sheet metal-forming process via a cloud-based platform. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 100, 2753-2765	3.2	12
58	An experimental investigation on the ductility and post-form strength of a martensitic steel in a novel warm stamping process. <i>Journal of Materials Processing Technology</i> , <b>2020</b> , 275, 116387	5.3	12
57	Effect of tool coatings on the interfacial heat transfer coefficient in hot stamping of aluminium alloys under variable contact pressure conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 137, 74-83	4.9	10
56	Size-dependent mechanical properties in AA6082 tailor welded specimens. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 224, 169-180	5.3	10

55	Effects of lubricant on the IHTC during the hot stamping of AA6082 aluminium alloy: Experimental and modelling studies. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 255, 175-183	5.3	10
54	Enhanced formability and forming efficiency for two-phase titanium alloys by Fast light Alloys Stamping Technology (FAST). <i>Materials and Design</i> , <b>2020</b> , 194, 108948	8.1	10
53	Hot stamping of an Al-Li alloy: a feasibility study. <i>Manufacturing Review</i> , <b>2016</b> , 3, 9	1.4	10
52	High-efficiency forming processes for complex thin-walled titanium alloys components: state-of-the-art and perspectives. <i>International Journal of Extreme Manufacturing</i> , <b>2020</b> , 2, 032001	7.9	9
51	Development of an interactive friction model to predict aluminum transfer in a pin-on-disc sliding system. <i>Tribology International</i> , <b>2019</b> , 130, 216-228	4.9	9
50	Development of an interfacial heat transfer coefficient model for the hot and warm aluminium stamping processes under different initial blank temperature conditions. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 273, 116245	5.3	8
49	Influence of silicon carbide and porcelain on tribological performance of Al6061 based hybrid composites. <i>Tribology International</i> , <b>2020</b> , 151, 106514	4.9	8
48	Compressive formability of 7075 aluminum alloy rings under hydrostatic pressure. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2006</b> , 16, 1103-1109	3.3	8
47	Hot stamping of AA6082 tailor welded blanks: experiment and FE simulation. <i>Manufacturing Review</i> , <b>2016</b> , 3, 8	1.4	8
46	Characterisation of the interfacial heat transfer coefficient in hot stamping of titanium alloys. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 113, 104535	5.8	7
45	Prediction of earing in TWIP steel sheets based on coupled twinning crystal plasticity model. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 89, 3037-3047	3.2	7
44	Modeling of double action extrusion—a novel extrusion process for friction characterization at the billet-die bearing interface. <i>Tribology International</i> , <b>2010</b> , 43, 2084-2091	4.9	7
43	Fundamentals, processes and equipment for hot medium pressure forming of light material tubular components. <i>International Journal of Lightweight Materials and Manufacture</i> , <b>2020</b> , 3, 1-19	2.2	7
42	Experimental and numerical investigation of the influence of pulsating pressure on hot tube gas forming using oscillating heating. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 97, 3839-3848	3.2	7
41	A new design of friction test rig and determination of friction coefficient when warm forming an aluminium alloy. <i>Procedia Engineering</i> , <b>2017</b> , 207, 2274-2279		6
40	Determination of the interfacial heat transfer coefficient in the hot stamping of AA7075. <i>MATEC Web of Conferences</i> , <b>2015</b> , 21, 05003	0.3	6
39	Hybrid forming processes for production of lightweight high strength automotive panel parts. <i>International Heat Treatment and Surface Engineering</i> , <b>2010</b> , 4, 160-165		6
38	Investigation of the friction coefficient evolution and lubricant breakdown behaviour of AA7075 aluminium alloy forming processes at elevated temperatures. <i>International Journal of Extreme Manufacturing</i> , <b>2021</b> , 3, 025002	7.9	6

37	Hot stamping of AA6082 tailor welded blanks for automotive applications. <i>Procedia Engineering</i> , <b>2017</b> , 207, 729-734		5
36	Hot stamping of an Al-Li alloy: A feasibility study. <i>MATEC Web of Conferences</i> , <b>2015</b> , 21, 05007	0.3	5
35	Melt Conditioned Twin Roll Casting (MC-TRC) of Thin Mg-Alloy Strips for Direct Stamping of Mg Components. <i>Materials Science Forum</i> , <b>2013</b> , 765, 170-174	0.4	5
34	Numerical Investigation on the Hot Forming and Cold-Die Quenching of an Aluminium-Magnesium Alloy into a Complex Component. <i>Materials Science Forum</i> , <b>2013</b> , 765, 368-372	0.4	5
33	Friction in Double Action Extrusion. <i>Key Engineering Materials</i> , <b>2009</b> , 424, 153-160	0.4	5
32	Evaluation of Plastic Deformation During Metal Forming by Using Lode Parameter. <i>Journal of Materials Engineering and Performance</i> , <b>2009</b> , 18, 1151-1156	1.6	5
31	A novel test method for continuous nonlinear biaxial tensile deformation of sheet metals by bulging with stepped-dies. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 169, 105321	5.5	5
30	Formability of AA6082-T6 at Warm and Hot Stamping Conditions. <i>Key Engineering Materials</i> , <b>2016</b> , 716, 107-113	0.4	5
29	Correlation between softening mechanisms and deformation non-uniformity of laser-welded titanium alloy tube during gas bulging process. <i>Materials Characterization</i> , <b>2017</b> , 133, 196-205	3.9	4
28	Knowledge Based Cloud FE Simulation of Sheet Metal Forming Processes. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	4
27	Experimental and modelling study of friction evolution and lubricant breakdown behaviour under varying contact conditions in warm aluminium forming processes. <i>Tribology International</i> , <b>2021</b> , 158, 106934	4.9	4
26	Determination of the Interfacial Heat Transfer Coefficient in the Hot Stamping of AA7075. <i>Manufacturing Review</i> , <b>2016</b> , 3, 16	1.4	4
25	Determination of Processing Windows for the Hot Stamping of AA7075. <i>Key Engineering Materials</i> , <b>2016</b> , 716, 402-412	0.4	4
24	The Galling Behavior of Advanced Coating Contacts with Aluminium Alloy during Sliding Wear. <i>Key Engineering Materials</i> , <b>2018</b> , 767, 117-123	0.4	4
23	Determination of a Set of Constitutive Equations for an Al-Li Alloy at SPF Conditions. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, S408-S413	1.4	3
22	An investigation of a new 2D CDM model in predicting failure in HFQing of an automotive panel. <i>MATEC Web of Conferences</i> , <b>2015</b> , 21, 05011	0.3	3
21	The study of central cracking mechanism and criterion in cross wedge rolling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2020</b> , 159, 103647	9.4	3
20	Knowledge Based Cloud FE simulation - data-driven material characterization guidelines for the hot stamping of aluminium alloys. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032042	0.3	3

19	Coupled thermal-electrical finite element analysis of electrical resistance heating in hot stamping of ultra-high strength steel tubes. <i>Procedia Manufacturing</i> , <b>2018</b> , 15, 1047-1054	1.5	3
18	Characterization of Thermomechanical Boundary Conditions of a Martensitic Steel for a FAST Forming Process. <i>Journal of Manufacturing and Materials Processing</i> , <b>2020</b> , 4, 57	2.2	2
17	Determination of the interfacial heat transfer coefficient between AA7075 and different forming tools in hot stamping processes. <i>Procedia Engineering</i> , <b>2017</b> , 207, 717-722		2
16	HFQ forming of AA6082 tailor welded blanks. <i>MATEC Web of Conferences</i> , <b>2015</b> , 21, 05006	0.3	2
15	Investigation on creep age forming of AA2219 stiffened structures. <i>MATEC Web of Conferences</i> , <b>2015</b> , 21, 04010	0.3	2
14	Dodecanethiol coated multi-walled carbon nanotube films as flexible current collector for lithium-ion batteries. <i>Materials Letters</i> , <b>2021</b> , 291, 129508	3.3	2
13	Investigation and Constitutive Modelling of High Strength 6xxx Series Aluminium Alloy: Precipitation Hardening Responses to FAST (Fast Light Alloys Stamping Technology) and Artificial Ageing. <i>Materials Science Forum</i> , <b>2018</b> , 941, 814-820	0.4	2
12	Tool-life prediction under multi-cycle loading during metal forming: a feasibility study. <i>Manufacturing Review</i> , <b>2015</b> , 2, 28	1.4	1
11	Characterization of the interfacial heat transfer coefficient for hot stamping processes. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032079	0.3	1
10	Coating effects on the galling behaviour of aluminium metal forming processes. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 651, 012022	0.4	1
9	Investigating the quench sensitivity of high strength AA6082 aluminium alloy during the new FAST forming process. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 418, 012028	0.4	1
8	Feasibility study of a novel hot stamping process for Ti6Al4V alloy. <i>MATEC Web of Conferences</i> , <b>2018</b> , 190, 08001	0.3	1
7	Effect of tool coating on interfacial heat transfer coefficient in hot stamping of AA7075 aluminium alloys. <i>Procedia Manufacturing</i> , <b>2018</b> , 15, 1127-1133	1.5	1
6	Experimental and modelling studies of the transient tribological behaviour of a two-phase lubricant under complex loading conditions. <i>Friction</i> , <b>2022</b> , 10, 911-926	5.6	1
5	A general IHTC model for hot/warm aluminium stamping. <i>Applied Thermal Engineering</i> , <b>2020</b> , 181, 115619.8	19.8	0
4	Design for additive manufacturing (DfAM) of hot stamping dies with improved cooling performance under cyclic loading conditions. <i>Additive Manufacturing</i> , <b>2021</b> , 37, 101720	6.1	0
3	Tool life prediction under multi-cycle loading conditions: A feasibility study. <i>MATEC Web of Conferences</i> , <b>2015</b> , 21, 12007	0.3	
2	Studies on the Hot Forming and Cold-Die Quenching of AA6082 Tailor Welded Blanks. <i>Key Engineering Materials</i> , <b>2016</b> , 716, 941-947	0.4	

- 1 Characterisation of the contact pressure dependent interfacial heat transfer coefficient for a hot stamping process following a data driven approach. *MATEC Web of Conferences*, **2018**, 190, 08005 0.3