

# Liyin Li

## List of Publications by Citations

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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.

64

papers

612

citations

13

h-index

22

g-index

68

ext. papers

698

ext. citations

3

avg, IF

3.97

L-index

#	Paper	IF	Citations
64	Numerical study of the mechanism of explosive/impact welding using Smoothed Particle Hydrodynamics method. <i>Materials &amp; Design</i> , <b>2012</b> , 35, 210-219		80
63	Numerical simulation and experimentation of a novel micro scale laser high speed punching. <i>International Journal of Machine Tools and Manufacture</i> , <b>2010</b> , 50, 491-494	9.4	52
62	An experimental and numerical study of laser impact spot welding. <i>Materials &amp; Design</i> , <b>2015</b> , 65, 1143-1152		35
61	Laser shock welding of aluminum/aluminum and aluminum/copper plates. <i>Materials &amp; Design</i> , <b>2014</b> , 56, 26-30		30
60	Experimental and numerical study on the laser shock welding of aluminum to stainless steel. <i>Optics and Lasers in Engineering</i> , <b>2019</b> , 115, 74-85	4.6	22
59	Micro-punching of aluminum foil by laser dynamic flexible punching process. <i>International Journal of Material Forming</i> , <b>2015</b> , 8, 183-196	2	21
58	Investigation on a Novel Laser Impact Spot Welding. <i>Metals</i> , <b>2016</b> , 6, 179	2.3	19
57	Micromold-Based Laser Shock Embossing of Metallic Foil: Fabrication of Large-Area Three-Dimensional Microchannel Networks. <i>Materials and Manufacturing Processes</i> , <b>2011</b> , 26, 1126-1129 <sup>4.1</sup>		18
56	Investigation on the Mechanism and Failure Mode of Laser Transmission Spot Welding Using PMMA Material for the Automotive Industry. <i>Materials</i> , <b>2017</b> , 10,	3.5	15
55	Enhancement of the Laser Transmission Weldability between Polyethylene and Polyoxymethylene by Plasma Surface Treatment. <i>Materials</i> , <b>2017</b> , 11,	3.5	15
54	Numerical simulation of laser impact spot welding. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 35, 396-406		15
53	Experimental and numerical investigation of laser shock synchronous welding and forming of Copper/Aluminum. <i>Optics and Lasers in Engineering</i> , <b>2016</b> , 86, 291-302	4.6	14
52	Investigation on enhancement of weld strength between PMMA and PBT in laser transmission welding Using intermediate material. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	14
51	Experimental and Numerical Simulation Investigation on Laser Flexible Shock Micro-Bulging. <i>Metals</i> , <b>2017</b> , 7, 93	2.3	13
50	Numerical simulation and experimentation of a novel laser indirect shock forming. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 063107	2.5	13
49	An Experimental Study on Micro Clinching of Metal Foils with Cutting by Laser Shock Forming. <i>Materials</i> , <b>2016</b> , 9,	3.5	13
48	Forming Properties of a Microscale Laser Dynamic Flexible Forming Technique. <i>Materials and Manufacturing Processes</i> , <b>2016</b> , 31, 745-750	4.1	13

47	Finite element simulation on investigations, modeling, and multiobjective optimization for clinch joining process design accounting for process parameters and design constraints. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 96, 3481-3501	3.2	12
46	Experimental Investigation on Laser Impact Welding of Fe-Based Amorphous Alloys to Crystalline Copper. <i>Materials</i> , <b>2017</b> , 10,	3.5	12
45	Numerical Simulation of the Influence of the Bulges around Laser Surface Textures on the Tribological Performance. <i>Tribology Transactions</i> , <b>2013</b> , 56, 1011-1018	1.8	12
44	Microscale laser flexible dynamic forming of Cu/Ni laminated composite metal sheets. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 35, 51-60	5	11
43	Performance and mechanism of laser transmission joining between glass fiber-reinforced PA66 and PC. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	10
42	Investigation of the forming pressure and formability of metal foil by laser-driven multi-layered flyer. <i>Optics and Laser Technology</i> , <b>2014</b> , 58, 151-160	4.2	10
41	Experimental and Numerical Simulation Research on Micro-Gears Fabrication by Laser Shock Punching Process. <i>Micromachines</i> , <b>2015</b> , 6, 969-983	3.3	10
40	Investigation on Interface Morphology and Mechanical Properties of Three-Layer Laser Impact Welding of Cu/Al/Cu. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 1273-1282	2.3	10
39	Study on Welding Mechanism Based on Modification of Polypropylene for Improving the Laser Transmission Weldability to PA66. <i>Materials</i> , <b>2015</b> , 8, 4961-4977	3.5	9
38	A mold-free laser shock micro-drawing forming process using Plasticine as the flexible support. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 79, 265-272	3.2	8
37	Feature Size Effect on Formability of Multilayer Metal Composite Sheets under Microscale Laser Flexible Forming. <i>Metals</i> , <b>2017</b> , 7, 275	2.3	8
36	Investigation of a novel laser shock liquid flexible microforming process applied to embossing three-dimensional large area microarrays on metallic foils. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 99, 419-435	3.2	7
35	Laser Indirect Shock Welding of Fine Wire to Metal Sheet. <i>Materials</i> , <b>2017</b> , 10,	3.5	7
34	Fabrication of Dish-Shaped Micro Parts by Laser Indirect Shocking Compound Process. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	7
33	An Experimental Study on Micro-Shear Clinching of Metal Foils by Laser Shock. <i>Materials</i> , <b>2019</b> , 12,	3.5	6
32	Interface Kinematics of Laser Impact Welding of Ni and SS304 Based on Jet Indentation Mechanism. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 2893-2904	2.3	6
31	Experimental investigation on the formation behavior for three-layer metal sheets under laser high speed flexible micro-forming. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 93, 3149-3157	3.2	6
30	Research on the Micro Sheet Stamping Process Using Plasticine as Soft Punch. <i>Materials</i> , <b>2014</b> , 7, 4118-4131	3.1	6

29	Molecular dynamics simulation of nanostructure formation in copper foil under laser shock forming. <i>Computational Materials Science</i> , <b>2020</b> , 172, 109352	3.2	6
28	Experimental and Numerical Investigations of a Novel Laser Impact Liquid Flexible Microforming Process. <i>Metals</i> , <b>2018</b> , 8, 599	2.3	5
27	Investigation of a combined embossing and blanking process using laser shock wave. <i>International Journal of Material Forming</i> , <b>2015</b> , 8, 317-325	2	4
26	Investigation on the laser transmission weldability and mechanism of the graft-modified polyethylene and PA66. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 86, 809-816	3.2	4
25	Experimental Study on the Laser Transmission Joining of Polystyrene and Titanium. <i>Materials</i> , <b>2018</b> , 11,	3.5	4
24	Numerical studies on laser impact welding: Smooth particle hydrodynamics (SPH), Eulerian, and SPH-Lagrange. <i>Journal of Manufacturing Processes</i> , <b>2021</b> , 68, 43-56	5	4
23	DEVELOPMENT OF A KNOWLEDGE-BASED INTELLIGENT CAD SYSTEM FOR AUTOMOTIVE PANEL DIE. <i>Journal of Advanced Manufacturing Systems</i> , <b>2008</b> , 07, 51-54	1.8	3
22	Experimental and Numerical Investigations on the Interface Characteristics of Laser Impact-Welded Ti/Brass Joints. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 1245-1258	1.6	3
21	Atomic Diffusion Behavior and Interface Waveform on the Laser Shock Welding of Aluminum to Nickel. <i>Journal of Materials Engineering and Performance</i> , <b>2020</b> , 29, 1336-1345	1.6	2
20	Numerical-simulation-driven optimization of a laser transmission welding process under consideration of scattering. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	2
19	Investigation of Micro-Bending of Sheet Metal Laminates by Laser-Driven Soft Punch in Warm Conditions. <i>Micromachines</i> , <b>2017</b> , 8,	3.3	2
18	Dynamic failure mechanism of copper foil in laser dynamic flexible forming. <i>Materials Science-Poland</i> , <b>2020</b> , 38, 684-692	0.6	2
17	Microstructure and mechanical properties of the bonded interface of laser impact welding brass/SS304. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2021</b> , 43, 1	2	2
16	Improvement of Laser Transmission Welding of Glass with Titanium Alloy by Laser Surface Treatment. <i>Materials</i> , <b>2018</b> , 11,	3.5	2
15	Interface and Strength of Laser Impact Welding of Fe-Based Nanocrystalline Alloys to Aluminum. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1199-1207	1.2	1
14	Laser shock hydraulic forming for micro-bowl with miniature concave. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 105, 441-455	3.2	1
13	FULL NUMERICAL SIMULATION TO THE PERFORMANCE OF MICRO-TEXTURED MECHANICAL FACE SEALS. <i>Journal of Advanced Manufacturing Systems</i> , <b>2008</b> , 07, 267-270	1.8	1
12	Numerical simulation and experiment study on pulsed laser surface micro-texturing in carbon tool steel <b>2008</b> ,		1

11	Improving the Forming Quality of Laser Dynamic Flexible Micropunching by Laser Pre-Shocking. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
10	Investigation on grain size effect and forming mechanism of laser shock hydraulic microforming of copper foil. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 114, 1049-1064	3.2	1
9	Experimental and Numerical Research on the Laser Impact Welding of Ti/SS. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2021</b> , 22, 759-775	1.7	1
8	Fabrication of Metallic Micro-Parts Reinforced with Nano- and Micro-Sized TiN Particles via Laser Shock Processing. <i>Journal of Materials Engineering and Performance</i> ,1	1.6	1
7	Microstructure and mechanical properties of laser high-velocity impact welded Ta/Cu joints. <i>Journal of Adhesion Science and Technology</i> , <b>2020</b> , 34, 2333-2351	2	0
6	Warm laser shock micro-heading forming (T2 copper): numerical simulation and experimental research. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3.2	0
5	Construction of High Strain Rate Loading Constitutive Model and Failure Model and Prediction of Forming Limit for LA103Z Magnesium Alloy. <i>Metals and Materials International</i> ,1	2.4	0
4	Formability and mechanism of pulsed current pretreatment-assisted laser impact microforming. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 114, 1011-1029	3.2	0
3	Investigation on formability improvement in laser shock hydroforming. <i>International Journal of Material Forming</i> , <b>2021</b> , 14, 855-869	2	0
2	Improvement of formability and corrosion resistance of AZ31 magnesium alloy by pulsed current-assisted laser shock forming. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2022</b> , 120, 6531	3.2	0
1	Microhole Forming and Creep Behavior of Fe-Based Nanocrystalline Alloys under Laser Dynamic Impact. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 1901361	3.5	