

Liyin Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8083508/publications.pdf>

Version: 2024-02-01

67
papers

806
citations

567144

15
h-index

610775

24
g-index

68
all docs

68
docs citations

68
times ranked

434
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study of the mechanism of explosive/impact welding using Smoothed Particle Hydrodynamics method. <i>Materials & Design</i> , 2012, 35, 210-219.	5.1	103
2	Numerical simulation and experimentation of a novel micro scale laser high speed punching. <i>International Journal of Machine Tools and Manufacture</i> , 2010, 50, 491-494.	6.2	57
3	An experimental and numerical study of laser impact spot welding. <i>Materials & Design</i> , 2015, 65, 1143-1152.	5.1	44
4	Laser shock welding of aluminum/aluminum and aluminum/copper plates. <i>Materials & Design</i> , 2014, 56, 26-30.	5.1	36
5	Micro-punching of aluminum foil by laser dynamic flexible punching process. <i>International Journal of Material Forming</i> , 2015, 8, 183-196.	0.9	27
6	Experimental and numerical study on the laser shock welding of aluminum to stainless steel. <i>Optics and Lasers in Engineering</i> , 2019, 115, 74-85.	2.0	26
7	Enhancement of the Laser Transmission Weldability between Polyethylene and Polyoxymethylene by Plasma Surface Treatment. <i>Materials</i> , 2018, 11, 29.	1.3	24
8	Investigation on enhancement of weld strength between PMMA and PBT in laser transmission welding—Using intermediate material. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	22
9	Micromold-Based Laser Shock Embossing of Metallic Foil: Fabrication of Large-Area Three-Dimensional Microchannel Networks. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1126-1129.	2.7	20
10	Investigation on a Novel Laser Impact Spot Welding. <i>Metals</i> , 2016, 6, 179.	1.0	20
11	Investigation on the Mechanism and Failure Mode of Laser Transmission Spot Welding Using PMMA Material for the Automotive Industry. <i>Materials</i> , 2017, 10, 22.	1.3	19
12	Numerical simulation of laser impact spot welding. <i>Journal of Manufacturing Processes</i> , 2018, 35, 396-406.	2.8	19
13	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> , 2018, 96, 3481-3501.	1.5	18
14	Numerical Simulation of the Influence of the Bulges around Laser Surface Textures on the Tribological Performance. <i>Tribology Transactions</i> , 2013, 56, 1011-1018.	1.1	16
15	Forming Properties of a Microscale Laser Dynamic Flexible Forming Technique. <i>Materials and Manufacturing Processes</i> , 2016, 31, 745-750.	2.7	16
16	Experimental and Numerical Simulation Investigation on Laser Flexible Shock Micro-Bulging. <i>Metals</i> , 2017, 7, 93.	1.0	16
17	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> , 2019, 50, 1273-1282.	1.1	16
18	Experimental and numerical investigation of laser shock synchronous welding and forming of Copper/Aluminum. <i>Optics and Lasers in Engineering</i> , 2016, 86, 291-302.	2.0	15

#	ARTICLE	IF	CITATIONS
19	Performance and mechanism of laser transmission joining between glass fiber-reinforced PA66 and PC. Journal of Applied Polymer Science, 2016, 133, .	1.3	15
20	Numerical simulation and experimentation of a novel laser indirect shock forming. Journal of Applied Physics, 2009, 106, .	1.1	14
21	An Experimental Study on Micro Clinching of Metal Foils with Cutting by Laser Shock Forming. Materials, 2016, 9, 571.	1.3	14
22	Numerical studies on laser impact welding: Smooth particle hydrodynamics (SPH), Eulerian, and SPH-Lagrange. Journal of Manufacturing Processes, 2021, 68, 43-56.	2.8	14
23	Experimental and Numerical Simulation Research on Micro-Gears Fabrication by Laser Shock Punching Process. Micromachines, 2015, 6, 969-983.	1.4	13
24	Experimental Investigation on Laser Impact Welding of Fe-Based Amorphous Alloys to Crystalline Copper. Materials, 2017, 10, 523.	1.3	13
25	Study on Welding Mechanism Based on Modification of Polypropylene for Improving the Laser Transmission Weldability to PA66. Materials, 2015, 8, 4961-4977.	1.3	12
26	Microscale laser flexible dynamic forming of Cu/Ni laminated composite metal sheets. Journal of Manufacturing Processes, 2018, 35, 51-60.	2.8	12
27	Investigation of the forming pressure and formability of metal foil by laser-driven multi-layered flyer. Optics and Laser Technology, 2014, 58, 151-160.	2.2	10
28	Feature Size Effect on Formability of Multilayer Metal Composite Sheets under Microscale Laser Flexible Forming. Metals, 2017, 7, 275.	1.0	10
29	Investigation of a novel laser shock liquid flexible microforming process applied to embossing three-dimensional large area microarrays on metallic foils. International Journal of Advanced Manufacturing Technology, 2018, 99, 419-435.	1.5	10
30	Molecular dynamics simulation of nanostructure formation in copper foil under laser shock forming. Computational Materials Science, 2020, 172, 109352.	1.4	10
31	An Experimental Study on Micro-Shear Clinching of Metal Foils by Laser Shock. Materials, 2019, 12, 1422.	1.3	9
32	Construction of High Strain Rate Loading Constitutive Model and Failure Model and Prediction of Forming Limit for LA103Z Magnesium Alloy. Metals and Materials International, 2022, 28, 1938-1947.	1.8	9
33	A mold-free laser shock micro-drawing forming process using Plasticine as the flexible support. International Journal of Advanced Manufacturing Technology, 2015, 79, 265-272.	1.5	8
34	Fabrication of Dish-Shaped Micro Parts by Laser Indirect Shocking Compound Process. Micromachines, 2016, 7, 105.	1.4	8
35	Experimental investigation on the formation behavior for three-layer metal sheets under laser high speed flexible micro-forming. International Journal of Advanced Manufacturing Technology, 2017, 93, 3149-3157.	1.5	8
36	Laser Indirect Shock Welding of Fine Wire to Metal Sheet. Materials, 2017, 10, 1070.	1.3	8

#	ARTICLE	IF	CITATIONS
37	Interface Kinematics of Laser Impact Welding of Ni and SS304 Based on Jet Indentation Mechanism. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2893-2904.	1.1	8
38	Research on the Micro Sheet Stamping Process Using Plasticine as Soft Punch. Materials, 2014, 7, 4118-4131.	1.3	7
39	Experimental Study on the Laser Transmission Joining of Polystyrene and Titanium. Materials, 2018, 11, 1513.	1.3	7
40	Improvement of Laser Transmission Welding of Glass with Titanium Alloy by Laser Surface Treatment. Materials, 2018, 11, 2060.	1.3	7
41	Experimental and Numerical Investigations on the Interface Characteristics of Laser Impact-Welded Ti/Brass Joints. Journal of Materials Engineering and Performance, 2021, 30, 1245-1258.	1.2	7
42	Investigation on the laser transmission weldability and mechanism of the graft-modified polyethylene and PA66. International Journal of Advanced Manufacturing Technology, 2016, 86, 809-816.	1.5	6
43	Experimental and Numerical Investigations of a Novel Laser Impact Liquid Flexible Microforming Process. Metals, 2018, 8, 599.	1.0	6
44	Microstructure and mechanical properties of the bonded interface of laser impact welding brass/SS304. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	5
45	DEVELOPMENT OF A KNOWLEDGE-BASED INTELLIGENT CAD SYSTEM FOR AUTOMOTIVE PANEL DIE. Journal of Advanced Manufacturing Systems, 2008, 07, 51-54.	0.4	4
46	Investigation of a combined embossing and blanking process using laser shock wave. International Journal of Material Forming, 2015, 8, 317-325.	0.9	4
47	Investigation on grain size effect and forming mechanism of laser shock hydraulic microforming of copper foil. International Journal of Advanced Manufacturing Technology, 2021, 114, 1049-1064.	1.5	4
48	Laser shock hydraulic forming for micro-bowl with miniature concave. International Journal of Advanced Manufacturing Technology, 2019, 105, 441-455.	1.5	3
49	Improving the Forming Quality of Laser Dynamic Flexible Micropunching by Laser Pre-Shocking. Materials, 2020, 13, 3667.	1.3	3
50	Numericalâ€simulationâ€driven optimization of a laser transmission welding process under consideration of scattering. Journal of Applied Polymer Science, 2014, 131, .	1.3	2
51	Investigation of Micro-Bending of Sheet Metal Laminates by Laser-Driven Soft Punch in Warm Conditions. Micromachines, 2017, 8, 224.	1.4	2
52	Microstructure and mechanical properties of laser high-velocity impact welded Ta/Cu joints. Journal of Adhesion Science and Technology, 2020, 34, 2333-2351.	1.4	2
53	Atomic Diffusion Behavior and Interface Waveform on the Laser Shock Welding of Aluminum to Nickel. Journal of Materials Engineering and Performance, 2020, 29, 1336-1345.	1.2	2
54	Experimental and Numerical Research on the Laser Impact Welding of Ti/SS. International Journal of Precision Engineering and Manufacturing, 2021, 22, 759-775.	1.1	2

#	ARTICLE	IF	CITATIONS
55	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> , 0, , 1.	1.2	2
56	Dynamic failure mechanism of copper foil in laser dynamic flexible forming. <i>Materials Science-Poland</i> , 2020, 38, 684-692.	0.4	2
57	Warm laser shock micro-heading forming (T2 copper): numerical simulation and experimental research. <i>International Journal of Advanced Manufacturing Technology</i> , 0, , 1.	1.5	2
58	Joint formation mechanism of different laser transmission welding paths. <i>Journal of Polymer Engineering</i> , 2022, 42, 663-676.	0.6	2
59	FULL NUMERICAL SIMULATION TO THE PERFORMANCE OF MICRO-TEXTURED MECHANICAL FACE SEALS. <i>Journal of Advanced Manufacturing Systems</i> , 2008, 07, 267-270.	0.4	1
60	Numerical simulation and experiment study on pulsed laser surface micro-texturing in carbon tool steel. , 2008, , .		1
61	Interface and Strength of Laser Impact Welding of Fe-Based Nanocrystalline Alloys to Aluminum. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 1199-1207.	0.7	1
62	Investigation on formability improvement in laser shock hydroforming. <i>International Journal of Material Forming</i> , 2021, 14, 855-869.	0.9	1
63	Formability and mechanism of pulsed current pretreatment-assisted laser impact microforming. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 1011-1029.	1.5	1
64	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> , 2022, 120, 6531-6545.	1.5	1
65	Research on laser transmission welding PVC. , 2008, , .		0
66	Finite Element Simulation of a Novel Laser High Speed Punching. , 2010, , .		0
67	Microhole Forming and Creep Behavior of Fe-Based Nanocrystalline Alloys under Laser Dynamic Impact. <i>Advanced Engineering Materials</i> , 2020, 22, 1901361.	1.6	0