

Jiankang Huang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2997420/publications.pdf>

Version: 2024-02-01

72
papers

793
citations

516710

16
h-index

580821

25
g-index

77
all docs

77
docs citations

77
times ranked

534
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time observation and numerical simulation of the molten pool flow and mass transfer behavior during wire arc additive manufacturing. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 481-494.	2.5	14
2	Recognition of weld defects from X-ray images based on improved convolutional neural network. <i>Multimedia Tools and Applications</i> , 2022, 81, 15085-15102.	3.9	11
3	Mild steel metal rotating spray transfer behavior in magnetically controlled gas metal arc welding. <i>Materials Today Communications</i> , 2022, 31, 103352.	1.9	2
4	Microstructure regulation of titanium alloy functionally gradient materials fabricated by alternating current assisted wire arc additive manufacturing. <i>Materials and Design</i> , 2022, 218, 110731.	7.0	15
5	The Growth Behavior for Intermetallic Compounds at the Interface of Aluminum-Steel Weld Joint. <i>Materials</i> , 2022, 15, 3563.	2.9	6
6	Atomic-level diffusion at the amorphous Zr50Cu50/crystalline Cu interface: A molecular dynamics study. <i>Journal of Advanced Joining Processes</i> , 2022, 6, 100120.	2.7	4
7	Nano mechanical property analysis of single crystal copper using Berkovich nano indenter and molecular dynamic simulation. <i>Computational Materials Science</i> , 2021, 188, 110237.	3.0	6
8	The microstructures and corrosion behavior of cladding layer on Ti-6Al-4V alloy using arc deposition with Ar and CO ₂ mixed shield gas. <i>Journal of Alloys and Compounds</i> , 2021, 857, 157557.	5.5	6
9	Microstructure, Mechanical Performance, and Corrosion Behavior of Electron Beam Welded Thick Incoloy 825 Joints. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 3735-3748.	2.5	1
10	Simulation and control of metal droplet transfer in bypass coupling wire arc additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 383-395.	3.0	5
11	Oscillation Modes of Weld Pool in Stationary GTA Welding Using Structure Laser Method. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021, 34, .	3.7	0
12	The reconstitution of the weld pool surface in stationary TIG welding process with filler wire. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 2437.	2.5	1
13	Droplet transfer behavior in bypass-coupled wire arc additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2020, 49, 397-412.	5.9	34
14	Numerical study on arc-droplet coupled behavior in magnetic field controlled GMAW process. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 115202.	2.8	18
15	Arc deposition of wear resistant layer TiN on Ti6Al4V using simultaneous feeding of nitrogen and wire. <i>Surface and Coatings Technology</i> , 2020, 381, 125141.	4.8	20
16	Microstructure and performances of dissimilar joints between 12Cr2Mo1R steel and 06Cr18Ni11Ti austenitic stainless steel joined by AA-TIG welding. <i>Journal of Manufacturing Processes</i> , 2020, 60, 96-106.	5.9	26
17	3D Numerical Study of External Axial Magnetic Field-Controlled High-Current GMAW Metal Transfer Behavior. <i>Materials</i> , 2020, 13, 5792.	2.9	6
18	Cladding Inconel 625 on cast iron via bypass coupling micro-plasma arc welding. <i>Journal of Manufacturing Processes</i> , 2020, 56, 106-115.	5.9	16

#	ARTICLE	IF	CITATIONS
19	A 3D dynamic analysis of different depositing processes used in wire arc additive manufacturing. <i>Materials Today Communications</i> , 2020, 24, 101255.	1.9	9
20	The characteristic of interface microstructure for aluminum-steel butt joint by arc assisted laser welding-brazing. <i>Materials Research Express</i> , 2019, 6, 096533.	1.6	3
21	Narrow gap applications of swing TIG-MIG hybrid weldings. <i>Journal of Materials Processing Technology</i> , 2019, 271, 609-614.	6.3	30
22	Arc-Assisted Laser Welding Brazing of Aluminum to Steel. <i>Metals</i> , 2019, 9, 397.	2.3	7
23	Microstructures in the joint of zirconium-based bulk metallic glass and copper. <i>Materials Research Express</i> , 2019, 6, 026511.	1.6	4
24	Tungsten cathode-arc plasma-weld pool interaction in the magnetically rotated or deflected gas tungsten arc welding configuration. <i>Journal of Manufacturing Processes</i> , 2018, 32, 127-137.	5.9	20
25	Microstructures and microhardness of the welding joint between Zr ₄₄ Ti ₁₁ Ni ₁₀ Cu ₁₀ Be ₂₅ bulk metallic glass and 1100 aluminum. <i>Materials Research Express</i> , 2018, 5, 015203.	1.6	4
26	Study on Dynamic Development of Three-dimensional Weld Pool Surface in Stationary GTAW. <i>High Temperature Materials and Processes</i> , 2018, 37, 455-462.	1.4	8
27	The transient behaviours of free surface in a fully penetrated weld pool in gas tungsten arc welding. <i>Journal of Manufacturing Processes</i> , 2018, 36, 405-416.	5.9	18
28	Effects of powder on microstructure, tensile, and corrosion behavior of aluminum-steel joints. <i>Journal of Laser Applications</i> , 2018, 30, 032006.	1.7	4
29	Joining of aluminum alloys to galvanized mild steel by the pulsed DE-GMAW with the alternation of droplet transfer. <i>Journal of Manufacturing Processes</i> , 2017, 25, 16-25.	5.9	25
30	The study of mechanical strength for fusion-brazed butt joint between aluminum alloy and galvanized steel by arc-assisted laser welding. <i>Journal of Manufacturing Processes</i> , 2017, 25, 126-133.	5.9	32
31	Pulsed Laser Beam Welding of Pd ₄₃ Cu ₂₇ Ni ₁₀ P ₂₀ Bulk Metallic Glass. <i>Scientific Reports</i> , 2017, 7, 7989.	3.3	26
32	Analysis and modeling of the growth of intermetallic compounds in aluminum-steel joints. <i>RSC Advances</i> , 2017, 7, 37797-37805.	3.6	34
33	Residual stress field analysis of Al/steel butt joint using laser welding-brazing. <i>Materials Science and Technology</i> , 2017, 33, 2053-2063.	1.6	2
34	Investigation of heat transfer and fluid flow in activating TIG welding by numerical modeling. <i>Applied Thermal Engineering</i> , 2017, 113, 27-35.	6.0	42
35	Layer-by-Layer Assembly of Polyelectrolyte Multilayer onto PET Fabric for Highly Tunable Dyeing with Water Soluble Dyes. <i>Polymers</i> , 2017, 9, 735.	4.5	73
36	Using priority growth orientation of crystallite of the Monte Carlo method to study the process of crystal nucleation and growth in liquid phase. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650014.	2.0	1

#	ARTICLE	IF	CITATIONS
37	Corrosion Behavior of Aluminum-Steel Weld-Brazing Joint. Journal of Materials Engineering and Performance, 2016, 25, 1916-1923.	2.5	44
38	High Effective Double-electrode GMAW Procedure. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2016, 52, 13.	0.5	4
39	Numerical simulation of arc plasma and weld pool in double electrodes tungsten inert gas welding. International Journal of Heat and Mass Transfer, 2015, 85, 924-934.	4.8	43
40	Numerical Simulation of Heat Transfer and Fluid Flow for Arc-weld Pool in TIG Welding. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 69.	0.5	4
41	Study on the Force Analysis of Droplet in Pulsed Double-electrode Gas Metal Arc Welding and Design Current Waveform. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 72.	0.5	1
42	Three-dimensional numerical analysis of interaction between arc and pool by considering the behavior of the metal vapor in tungsten inert gas welding. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 108102.	0.5	6
43	Interface Characteristics and Properties of Arc-assisted Laser Welding-brazing Joint of Aluminum Alloy to Galvanized Steel with Preset Filler Powder. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 57.	0.5	0
44	Numerical and Experimental Study of Temperature Field for Double Electrode Gas Metal Arc Welding. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	2.2	10
45	Modeling, simulation and control of pulsed DE-GMA welding process for joining of aluminum to steel. Chinese Journal of Mechanical Engineering (English Edition), 2014, 27, 978-985.	3.7	4
46	A unified model of coupled arc plasma and weld pool for double electrodes TIG welding. Journal Physics D: Applied Physics, 2014, 47, 275202.	2.8	34
47	Method to Measure Three Dimensional Specular Surface of TIG Weld Pool Based on Dot-matrix Laser Pattern. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2014, 50, 10.	0.5	14
48	Effects of Si and Mg elements on the microstructure of aluminum-steel joints produced by pulsed DE-GMA welding-brazing. Materials Science and Technology, 2013, 29, 1118-1124.	1.6	25
49	Numerical simulation of coupled arc in double electrode tungsten inert gas welding. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 228101.	0.5	8
50	Decoupling control scheme for pulsed GMAW process of aluminum. Journal of Materials Processing Technology, 2012, 212, 801-807.	6.3	15
51	Force Analysis of Metal Transfer in Dual Bypass MIG Welding. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2012, 48, 44.	0.5	8
52	Simulation and Control of Consumable DE-GMAW Process. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2012, 48, 45.	0.5	5
53	Simulation Analysis and Decoupling Control of Consumable DE-GMAW. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2012, 48, 46.	0.5	2
54	Fuzzy control system for consumable DE-GMAW process. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
55	Edge detection for aluminum alloy MIG welding pool based on pulse coupled neural network. , 2011, , .		2
56	Wire extension with Dual freedom PID control in pulsed MIG welding process of aluminum alloy. , 2011, , .		0
57	Weld Width Control System for Pulsed MIG Welding of Aluminum Alloy. Advanced Materials Research, 2011, 299-300, 908-911.	0.3	0
58	Wire Extension Control Based on Vision Sensing in Pulsed MIG Welding of Aluminum Alloy. Lecture Notes in Electrical Engineering, 2011, , 153-159.	0.4	3
59	Modeling and Decoupling Control Analysis for Consumable DE-GMAW. Lecture Notes in Electrical Engineering, 2011, , 285-292.	0.4	1
60	Study on DE-GMAW MIG-brazing Method for Bonding Steel with Aluminum. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2011, 47, 25.	0.5	6
61	Simulation of Decoupling Control of Pulsed MIG Welding for Aluminum Alloy. Lecture Notes in Electrical Engineering, 2011, , 279-284.	0.4	1
62	Double-variable Decoupling Control for Pulse MIG Welding Process of Aluminum Alloy. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2011, 47, 88.	0.5	0
63	Modeling, Simulation Analysis and Arc Length Control of Pulsed MIG Welding. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2011, 47, 37.	0.5	3
64	The Cascade Three-Elements Fuzzy Auto-Adapted PID Control System for Boiler. Advanced Materials Research, 2010, 139-141, 1919-1923.	0.3	1
65	The Online Control System of Bag Filter Based on Temperature Detector and Transducer Technique. , 2010, , .		1
66	Wire extension sliding model control based on rapid prototyping in aluminum alloy pulsed MIG welding. , 2010, , .		0
67	High-speed welding based on consumable DE-GMAW. , 2010, , .		0
68	Fuzzy PID control of wire extension in pulsed MIG welding for aluminum alloy. , 2010, , .		3
69	Extract the aluminum alloy MIG welding pool edge with Otsu threshold selection based on the genetic algorithmic. , 2010, , .		3
70	Relationship between arc sound and subsidence of weld bead in aluminum alloy MIG welding process. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2007, 43, 32.	0.5	5
71	Research of Welding Deformation Measurement Based on Visual Method. Advanced Materials Research, 0, 139-141, 2093-2096.	0.3	0
72	Stress Simulation for DE-GMAW in Bonding Steel with Aluminum. Advanced Materials Research, 0, 268-270, 24-29.	0.3	1