

Chuan Liu

List of Publications by Year in descending order

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papers

602
citations

567281

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citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure and Wear Behavior of Atmospheric Plasma-Sprayed AlCoCrFeNiTi High-Entropy Alloy Coating. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 5513-5521.	2.5	90
2	The strengthening mechanism of spray forming Al-Zn-Mg-Cu alloy by underwater friction stir welding. <i>Materials and Design</i> , 2016, 102, 91-99.	7.0	68
3	Residual stress measurement on AA6061-T6 aluminum alloy friction stir butt welds using contour method. <i>Materials & Design</i> , 2013, 46, 366-371.	5.1	54
4	Numerical Investigation of Residual Stress in Thick Titanium Alloy Plate Joined with Electron Beam Welding. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010, 41, 1129-1138.	2.1	40
5	Influences of lumped passes on welding residual stress of a thick-walled nuclear rotor steel pipe by multipass narrow gap welding. <i>Nuclear Engineering and Design</i> , 2014, 273, 47-57.	1.7	37
6	Numerical investigation on the variation of welding stresses after material removal from a thick titanium alloy plate joined by electron beam welding. <i>Materials & Design</i> , 2012, 34, 609-617.	5.1	34
7	Residual stress variation in a thick welded joint after ultrasonic impact treatment. <i>Science and Technology of Welding and Joining</i> , 2016, 21, 624-631.	3.1	33
8	Effects of ultrasonic impact treatment on weld microstructure, hardness, and residual stress. <i>Materials Science and Technology</i> , 2017, 33, 1601-1609.	1.6	29
9	Residual stress in a restrained specimen processed by post-weld ultrasonic impact treatment. <i>Science and Technology of Welding and Joining</i> , 2019, 24, 193-199.	3.1	22
10	Interfacial investigation of explosion-welded Al/steel plate: The microstructure, mechanical properties and residual stresses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 833, 142525.	5.6	18
11	Internal residual stress measurement on linear friction welding of titanium alloy plates with contour method. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 1387-1392.	4.2	17
12	Experimental investigation on residual stress distribution in zirconium/titanium/steel tri-metal explosively welded composite plate after cutting and welding of a cover plate. <i>Journal of Manufacturing Processes</i> , 2021, 64, 455-463.	5.9	17
13	Three-dimensional finite element simulation of welding residual stress in RPV with two J-groove welds. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 151-160.	2.5	16
14	Experimental Investigation on the Residual Stresses in a Thick Joint with a Partial Repair Weld Using Multiple-Cut Contour Method. <i>Materials</i> , 2018, 11, 633.	2.9	15
15	Residual stress distributions in thick specimens excavated from a large circular wire+arc additive manufacturing mockup. <i>Journal of Manufacturing Processes</i> , 2020, 56, 474-481.	5.9	15
16	Effects of local ultrasonic impact treatment on residual stress in an engineering-scale stainless steel pipe girth weld. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 192, 104420.	2.6	15
17	Effect of welding speed on performance of friction stir welded spray forming 7055 aluminum alloy. <i>Journal of Manufacturing Processes</i> , 2019, 46, 304-316.	5.9	14
18	Modelling of residual stresses in a narrow-gap welding of ultra-thick curved steel mockup. <i>Journal of Materials Processing Technology</i> , 2018, 256, 239-246.	6.3	13

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19	Mechanical properties improvement of thick multi-pass weld by layered ultrasonic impact treatment. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 95-104.	3.1	12
20	Experimental Investigations on Welding Stress Distribution in Thick Specimens After Postweld Heat Treatment and Ultrasonic Impact Treatment. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1820-1829.	2.5	11
21	Experimental investigation on residual stress distribution in an engineering-scale pipe girth weld. <i>Science and Technology of Welding and Joining</i> , 2021, 26, 28-36.	3.1	7
22	Properties and formation mechanism of cladding layer on high-strength low-alloy steel subjected to ultrasonic impact treatment with titanium alloy pin. <i>Surface and Coatings Technology</i> , 2021, 418, 127256.	4.8	7
23	Internal Welding Residual Stress Measurement Based on Contour Method. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2012, 48, 54.	0.5	6
24	Mechanical Properties and Stress Variations in Multipass Welded Joint of Low-Alloy High-Strength Steel after Layer-by-Layer Ultrasonic Impact Treatment. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 2726-2735.	2.5	2
25	Effects of initial stress state on the subsurface stress distribution after ultrasonic impact treatment on thick specimens. <i>Journal of Strain Analysis for Engineering Design</i> , 2021, 56, 443-451.	1.8	2
26	Experimental investigation on the subsurface stress distributions in specimens with different strengths after ultrasonic impact treatment. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 2123-2129.	1.5	2
27	Stress measurement and correction with contour method for additively manufactured round-rod specimen. <i>Science and Technology of Welding and Joining</i> , 2022, 27, 213-219.	3.1	2
28	Study on residual stress distribution of Al/Cu dissimilar metal joint manufactured by electromagnetic pulse welding. <i>Materials Letters</i> , 2022, 317, 132113.	2.6	2
29	Investigation on narrow-gap welding residual stresses in ultra-thick ring-type mockups. <i>Materials Research Express</i> , 2018, 5, 016526.	1.6	1
30	A comparative study of ultrasonic impact cladding of steel surface using titanium alloy pin. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 0, , 095440622210962.	2.1	1