

Guo Wei

List of Publications by Year in descending order

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papers

1,854
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218677

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times ranked

1147
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#	ARTICLE	IF	CITATIONS
1	Microstructure, residual stress and tensile properties control of wire-arc additive manufactured 2319 aluminum alloy with laser shock peening. <i>Journal of Alloys and Compounds</i> , 2018, 747, 255-265.	5.5	245
2	Laser shock peening of laser additive manufactured Ti6Al4V titanium alloy. <i>Surface and Coatings Technology</i> , 2018, 349, 503-510.	4.8	131
3	Effects of heat treatment combined with laser shock peening on wire and arc additive manufactured Ti17 titanium alloy: Microstructures, residual stress and mechanical properties. <i>Surface and Coatings Technology</i> , 2020, 396, 125908.	4.8	74
4	Microstructural and mechanical evolution of silver sintering die attach for SiC power devices during high temperature applications. <i>Journal of Alloys and Compounds</i> , 2019, 774, 487-494.	5.5	65
5	Laser shock peening induced fatigue crack retardation in Ti-17 titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 737, 94-104.	5.6	60
6	Microstructure evolution and mechanical properties of vacuum-brazed C/C composite with AgCuTi foil. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 564, 192-198.	5.6	59
7	Dissimilar Laser Welding/Brazing of 5754 Aluminum Alloy to DP 980 Steel: Mechanical Properties and Interfacial Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 5149-5157.	2.2	57
8	Microstructural evolution and deformation behavior of fiber laser welded QP980 steel joint. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 717, 124-133.	5.6	56
9	Microstructural evolution and thermal stress relaxation of Al ₂ O ₃ /1Cr18Ni9Ti brazed joints with nickel foam. <i>Vacuum</i> , 2018, 148, 18-26.	3.5	48
10	Effect of laser shock processing on oxidation resistance of laser additive manufactured Ti6Al4V titanium alloy. <i>Corrosion Science</i> , 2020, 170, 108655.	6.6	48
11	Microstructure and mechanical properties of laser shock peened 38CrSi steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139486.	5.6	45
12	Preparation of nanoparticle and nanowire mixed pastes and their low temperature sintering. <i>Journal of Alloys and Compounds</i> , 2017, 690, 86-94.	5.5	43
13	Influence of alloy elements on microstructure and mechanical properties of Al/steel dissimilar joint by laser welding/brazing. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018, 62, 427-433.	2.5	42
14	Reactive brazing of silicon nitride to Invar alloy using Ni foam and AgCuTi intermediate layers. <i>Ceramics International</i> , 2019, 45, 13979-13987.	4.8	41
15	Interfacial reactions and zigzag groove strengthening of C/C composite and Rene N5 single crystal brazed joint. <i>Ceramics International</i> , 2015, 41, 11605-11610.	4.8	40
16	Microstructure and Tensile-Shear Properties of Resistance Spot-Welded Medium Mn Steel. <i>Metals</i> , 2018, 8, 48.	2.3	39
17	Combining manufacturing of titanium alloy through direct energy deposition and laser shock peening processes. <i>Materials and Design</i> , 2021, 203, 109626.	7.0	37
18	Fatigue crack growth in residual stress fields of laser shock peened Ti6Al4V titanium alloy. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161427.	5.5	37

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19	Microstructure and mechanical properties of laser welded dissimilar joints between QP and boron alloyed martensitic steels. <i>Journal of Materials Processing Technology</i> , 2018, 259, 58-67.	6.3	36
20	Impact toughness and microstructural response of Ti-17 titanium alloy subjected to laser shock peening. <i>Surface and Coatings Technology</i> , 2017, 327, 32-41.	4.8	35
21	Effect of laser shock peening on bending fatigue performance of AISI 9310 steel spur gear. <i>Optics and Laser Technology</i> , 2017, 94, 15-24.	4.6	34
22	Dynamic response and residual stress fields of Ti6Al4V alloy under shock wave induced by laser shock peening. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017, 25, 065016.	2.0	34
23	Fatigue of Ti-17 titanium alloy with hole drilled prior and post to laser shock peening. <i>Optics and Laser Technology</i> , 2019, 115, 166-170.	4.6	33
24	Experimental-numerical study of laser-shock-peening-induced retardation of fatigue crack propagation in Ti-17 titanium alloy. <i>International Journal of Fatigue</i> , 2021, 145, 106081.	5.7	32
25	Fatigue behavior of Ti-17 titanium alloy subjected to different laser shock peened regions and its microstructural response. <i>Surface and Coatings Technology</i> , 2020, 383, 125284.	4.8	30
26	Low-Temperature Sintering Bonding Using Silver Nanoparticle Paste for Electronics Packaging. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	2.7	29
27	Effect of laser shock processing with post-machining and deep cryogenic treatment on fatigue life of GH4169 super alloy. <i>International Journal of Fatigue</i> , 2019, 119, 261-267.	5.7	26
28	Electrical and Mechanical Properties of Ink Printed Composite Electrodes on Plastic Substrates. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2101.	2.5	24
29	High Electrical and Thermal Conductivity of Nano-Ag Paste for Power Electronic Applications. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1543-1555.	2.9	24
30	Microstructure- and Strain Rate-Dependent Tensile Behavior of Fiber Laser-Welded DP980 Steel Joint. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 668-676.	2.5	23
31	Improvement in oxidation resistance of Ti2AlNb alloys at high temperatures by laser shock peening. <i>Corrosion Science</i> , 2021, 184, 109364.	6.6	22
32	Microstructural evolution, mechanical behaviors and strengthening mechanism of 300ÅM steel subjected to multi-pass laser shock peening. <i>Optics and Laser Technology</i> , 2022, 148, 107726.	4.6	22
33	Gradient microstructure evolution in laser shock peened Ti6Al4V titanium alloy. <i>Surface and Coatings Technology</i> , 2022, 437, 128378.	4.8	22
34	Effects of laser shock peening on microstructure and mechanical properties of TIG welded alloy 600 joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 808, 140914.	5.6	18
35	Nanoscale Wire Bonding of Individual Ag Nanowires on Au Substrate at Room Temperature. <i>Nano-Micro Letters</i> , 2017, 9, 26.	27.0	16
36	Effect of Cu foam on the microstructure and strength of the SiCf/SiC-GH536 brazed joint. <i>Ceramics International</i> , 2022, 48, 12945-12953.	4.8	15

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37	The braze joint between Al ₂ O ₃ to 1Cr18Ni9Ti using a nickel foam. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2015, 59, 491-496.	2.5	14
38	Flexible Nonenzymatic Glucose Sensing with One-Step Laser-Fabricated Cu ₂ O/Cu Porous Structure. <i>Advanced Engineering Materials</i> , 2021, 23, 2100192.	3.5	13
39	Effects of Laser Shock Processing on Fatigue Crack Growth in Ti-17 Titanium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 813-821.	2.5	12
40	Near-ideal compressive strength of nanoporous silver composed of nanowires. <i>Acta Materialia</i> , 2019, 173, 163-173.	7.9	12
41	Titanium alloy components fabrication by laser depositing TA15 powders on TC17 forged plate: Microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 818, 141382.	5.6	12
42	The Superplastic Deformation Behavior and Phase Evolution of Ti-6Al-4V Alloy at Constant Tensile Velocity. <i>High Temperature Materials and Processes</i> , 2017, 36, 55-62.	1.4	11
43	SiC chip attachment sintered by nanosilver paste and their shear strength evaluation. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 1055-1063.	2.5	11
44	Laser-Patterned Copper Electrodes for Proximity and Tactile Sensors. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901845.	3.7	10
45	Low-temperature sintering of silver patterns on polyimide substrate printed with particle-free ink. <i>Nanotechnology</i> , 2020, 31, 305301.	2.6	10
46	Laser Shock Peening of SiCp/2009Al Composites: Microstructural Evolution, Residual Stress and Fatigue Behavior. <i>Materials</i> , 2021, 14, 1082.	2.9	10
47	Effects of Heat Treatments on Microstructures and Mechanical Properties of Ti6Al4V Alloy Produced by Laser Solid Forming. <i>Metals</i> , 2021, 11, 346.	2.3	10
48	A combined experimental-numerical study of residual stress and its relaxation on laser shock peened SiC particle-reinforced 2009 aluminum metal matrix composites. <i>Surface and Coatings Technology</i> , 2022, 430, 127988.	4.8	9
49	Fast X-ray Differential Phase Contrast Imaging with One Exposure and without Movements. <i>Scientific Reports</i> , 2019, 9, 1113.	3.3	8
50	Stabilizing the sintered nanopore bondline by residual organics for high temperature electronics. <i>Microelectronics Reliability</i> , 2020, 111, 113727.	1.7	8
51	Joining of textured YBCO with YBCO added Ag ₂ O additive. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 482-486.	1.2	7
52	Laser assisted ink-printing of copper oxide nanoplates for memory device. <i>Materials Letters</i> , 2020, 261, 127097.	2.6	7
53	Effect of laser shock peening on high cycle fatigue failure of bolt connected AA2024-T351 hole structures. <i>Engineering Failure Analysis</i> , 2022, 141, 106625.	4.0	7
54	Influence of Laser Shock Processing on WC-Co Hardmetal. <i>Materials and Manufacturing Processes</i> , 2016, 31, 794-801.	4.7	5

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55	Laser Erasing and Rewriting of Flexible Copper Circuits. Nano-Micro Letters, 2021, 13, 184.	27.0	5
56	Laser Shock Peening of Ti6Al4V Alloy with Combined Nanosecond and Femtosecond Laser Pulses. Metals, 2022, 12, 26.	2.3	5
57	Transient Liquid Phase Bonding of Nickel-Base Single Crystal Alloy with a Novel Ni-Cr-Co-Mo-W-Ta-Re-B Amorphous Interlayer. High Temperature Materials and Processes, 2017, 36, 677-682.	1.4	4
58	Thermal Properties of Laser-Fabricated Copper-Carbon Composite Films on Polyimide Substrate. Advanced Engineering Materials, 2021, 23, 2100623.	3.5	4
59	SURFACE PROPERTIES OF THE IN SITU FORMED CERAMICS REINFORCED COMPOSITE COATINGS ON Ti-3Al-2V ALLOYS. Surface Review and Letters, 2012, 19, 1250009.	1.1	3
60	Hardness Evolution and High Temperature Mechanical Properties of Laser Welded DP980 Steel Joints. High Temperature Materials and Processes, 2018, 37, 587-595.	1.4	3
61	Study on Fatigue Crack Propagation and Fracture Characterization of 7050-T7451 Friction Stir Welded Joints. Journal of Materials Engineering and Performance, 2021, 30, 5625-5632.	2.5	3
62	Synthesis of Free-Standing Silver Foam via Oriented and Additive Nanojoining. ACS Applied Materials & Interfaces, 2021, 13, 38637-38646.	8.0	3
63	The study of multiple thermal cycle of HTS YBCO bulk. Physica C: Superconductivity and Its Applications, 2012, 474, 25-28.	1.2	2
64	Effects of Laser Shock Processing on Impact Toughness of Ti-17 Titanium Alloy. High Temperature Materials and Processes, 2018, 37, 325-332.	1.4	2
65	Laser Fabricated $Cu_2O@CuO/Ag$ Nanocomposite Films for SERS Application**. ChemistrySelect, 2022, 7, .	1.5	2
66	A STUDY ON MICROSTRUCTURE CHARACTERISTICS OF <i>IN SITU</i> FORMED TiC REINFORCED COMPOSITE COATINGS. Surface Review and Letters, 2012, 19, 1250016.	1.1	0
67	Simulation and Experimental Research on Residual Stress Field of Cemented Carbide YG8 by Laser Shock Processing. , 2019, , .		0