Jianguo Yang

List of Publications by Year in Descending Order

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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.

51 papers	431 citations	11 h-index	18 g-index
61 ext. papers	552 ext. citations	3.8 avg, IF	4.11 L-index

#	Paper	IF	Citations
51	Tailoring microstructure and mechanical performance of Hastelloy N-Hastelloy N superalloy joint through modifying brazing processing parameters and post thermal exposure. *Materials Characterization*, **2021**, 173, 110947	3.9	0
50	Enhanced Defect Detection in Carbon Fiber Reinforced Polymer Composites via Generative Kernel Principal Component Thermography. *Polymers*, **2021**, 13,	4.5	9
49	Microstructural evolution and mechanical properties of AlCoCrFeNi high-entropy alloy joints brazed using a novel Ni-based filler. *Journal of Alloys and Compounds*, **2021**, 860, 157926	5.7	7
48	Effects of the target-to-substrate distance on the microstructure and properties of TiN coatings fabricated by pulse-enhanced vacuum arc evaporation. *Journal of Adhesion Science and Technology*, **2021**, 35, 1125-1137	2	1
47	A thermographic data augmentation and signal separation method for defect detection. *Measurement Science and Technology*, **2021**, 32, 045401	2	9
46	A novel joining of Cf/C composites using AlCoCrFeNi2.1 high-entropy brazing filler alloys. *Materials Characterization*, **2021**, 179, 111368	3.9	3
45	An Investigation of Atomic Interaction between Ag and Ti2AlC under the Processing Temperature of 1080 ℃. *Metals*, **2021**, 11, 1963	2.3	0
44	Generative Principal Component Thermography for Enhanced Defect Detection and Analysis. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 1-1	5.2	23
43	Tailoring microstructure and mechanical performance of the TC4 titanium alloy brazed joint through doping rare-earth element Dy into Ti-Cu-Ni filler alloy. *Journal of Manufacturing Processes*, **2020**, 50, 255-265	5	5
42	Spatial-Neighborhood Manifold Learning for Nondestructive Testing of Defects in Polymer Composites. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 4639-4649	11.9	32
41	Loading path optimization of shaft clinching forming assembly using finite element simulation and response surface methodology. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2020**, 234, 734-745	1.3	0
40	Microstructural evolution and characterization of interfacial phases in diffusion-bonded SiC/Ta□W/SiC joints. *Ceramics International*, **2020**, 46, 22650-22660	5.1	5
39	Influence of Acetylene on Ti Target Poisoning During Pulse-Enhanced Vacuum Arc Evaporation. *IEEE Transactions on Plasma Science*, **2020**, 48, 2799-2809	1.3	
38	Enhanced discharge and surface properties of TiSiCN coatings deposited by pulse-enhanced vacuum arc evaporation. *Surface and Coatings Technology*, **2020**, 403, 126413	4.4	3
37	Study on Hydrogen Diffusion Behavior during Welding of Heavy Plate. *Materials*, **2020**, 13,	3.5	3
36	Self-Gathering Effect of the Hydrogen Diffusion in Welding Induced by the Solid-State Phase Transformation. *Materials*, **2019**, 12,	3.5	3
35	Hydrogen Diffusion Mechanism around a Crack Tip in Type 304L Austenite Stainless Steel Considering the Influence of the Volume Expansion of Strain-Induced Martensite Transformation. *Metals*, **2019**, 9, 977	2.3	2

34	Tailoring microstructure and mechanical performance of the graphite-Ni based superalloy brazed combination used for molten salt reactors through thermal exposure. *Materials Characterization*, **2019**, 156, 109831	3.9	2
33	Influence of crystallographic orientation of epitaxial solidification on the initial instability during the solidification of welding pool. *Journal of Manufacturing Processes*, **2019**, 38, 298-307	5	5
32	Influence of phase transformation on the creep deformation mechanism of SA508 Gr.3 steel for nuclear reactor pressure vessels. *Journal of Nuclear Materials*, **2019**, 519, 292-301	3.3	8
31	Characterization of SiC Ceramic Joints Brazed Using Au?Ni?Pd?Ti High-Temperature Filler Alloy. *Materials*, **2019**, 12,	3.5	2
30	Microstructure and Mechanical Performance of the DD98M-DD98M Single Crystal Superalloy Joints Brazed Using a Pd-Si Composite Filler. *Metals*, **2019**, 9, 1001	2.3	1
29	Deformation mechanism-based true-stress creep model for SA508 Gr.3 steel over the temperature range of 450?50 ?C. *Journal of Nuclear Materials*, **2019**, 526, 151776	3.3	6
28	Orthogonal Locality Preserving Projections Thermography for Subsurface Defect Detection **2019**,		1
27	Microstructure, adhesion, mechanical and corrosion properties of TiN coatings deposited by high energy pulse-enhanced vacuum arc evaporation. *Journal of Adhesion Science and Technology*, **2019**, 1-22	2	2
26	Microstructural modification and mechanical characterization for a laser-induced composite coating during thermal exposure. *Surface and Coatings Technology*, **2019**, 358, 11-21	4.4	9
25	An analysis of high-temperature microstructural stability and mechanical performance of the Hastelloy N-Hastelloy N Superalloy joint bonded with pure Ti. *Materials and Design*, **2018**, 144, 72-85	8.1	13
24	Just-in-time semi-supervised soft sensor for quality prediction in industrial rubber mixers. *Chemometrics and Intelligent Laboratory Systems*, **2018**, 180, 36-41	3.8	61
23	An investigation of phase transition on the microstructural characteristic and creep behavior for the SA508 Gr.3 steel used for nuclear reactor pressure vessels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 711, 659-669	5.3	11
22	Ultrasonic-assisted soldering of Cu/Ti joints. *IOP Conference Series: Materials Science and Engineering*, **2018**, 322, 022020	0.4	
21	Hydrogen diffusion mechanism of the single-pass welded joint in welding considering the phase transformation effects. *Journal of Manufacturing Processes*, **2018**, 36, 126-137	5	7
20	TEM study of microstructural characteristic and evaluation of mechanical performance for the hastelloy N/Ti/Hastelloy N superalloy joint brazed for diverse soaking time. *Journal of Manufacturing Processes*, **2018**, 35, 271-281	5	2
19	A global limit load solution for plates containing embedded off-set rectangular cracks under combined biaxial force/stress and through-thickness bending. *International Journal of Pressure Vessels and Piping*, **2017**, 149, 93-107	2.4	4
18	Aging Time-Microstructure-Mechanical Property Correlation of a Ni-17Mo-7Cr-Based Superalloy Subjected to Simulated Heat-Affected Zone Thermal Treatment. *Journal of Materials Engineering and Performance*, **2017**, 26, 4556-4566	1.6	
17	Novel joining of dissimilar materials in the graphite/Hastelloy N alloy system using pure Au doped with Si particles. *Materials Characterization*, **2017**, 131, 388-398	3.9	7

16	Microstructural evolution and mechanical characterization for the A508Ⅲ steel before and after phase transition. *Journal of Nuclear Materials*, **2017**, 495, 103-110	3.3	11
15	Industrial Mooney viscosity prediction using fast semi-supervised empirical model. *Chemometrics and Intelligent Laboratory Systems*, **2017**, 171, 86-92	3.8	21
14	Microstructure and local strains in GH3535 alloy heat affected zone and their influence on the mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 699, 48-54	5.3	12
13	Influence of simulated heat-affected zone thermal cycle treatment on mechanical performances and microstructural stability of Ni□7Mo□Cr based superalloy. *Vacuum*, **2016**, 125, 26-35	3.7	4
12	Effect of high-temperature aging on microstructure and mechanical properties of Ni□Mo□Cr based superalloy subjected to simulated heat-affected zone thermal cycle. *Journal of Alloys and Compounds*, **2016**, 660, 266-275	5.7	9
11	An analysis of formation mechanism and nano-scale hardness of the laser-induced coating on Ni□7Mo□Cr based superalloy. *Journal of Alloys and Compounds*, **2016**, 673, 8-16	5.7	10
10	Microstructure dependent fatigue crack growth characteristics in the Ni□7Mo□Cr base superalloy before and after thermal exposure. *Journal of Materials Research*, **2016**, 31, 3880-3890	2.5	
9	Brazing graphite to hastelloy N superalloy using pure-Au filler metal: Bonding mechanism and joint properties. *Materials and Design*, **2016**, 104, 1-9	8.1	18
8	Microstructure evolution in a Ni□Mo□Cr superalloy subjected to simulated heat-affected zone thermal cycle with high peak temperature. *Materials and Design*, **2015**, 86, 230-236	8.1	14
7	Austenite Memory and Variant Selection in a Novel Martensitic Welding Alloy. *Materials Today: Proceedings*, **2015**, 2, S325-S331	1.4	
6	Characterization of the Ni□Mo□Cr superalloy subjected to simulated heat-affected zone thermal cycle treatment. *Journal of Alloys and Compounds*, **2015**, 643, 7-16	5.7	14
5	Dynamic evolution of welding residual stress field under noncontact electromagnetic force. *Journal of Applied Physics*, **2010**, 107, 054904	2.5	
4	Effect of Welding Technologies on Decreasing Welding Residual Stress of Francis Turbine Runner. *Journal of Materials Science and Technology*, **2010**, 26, 951-956	9.1	3
3	Welding deformation controlling of aluminum-alloy thin plate by two-direction pre-stress method. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2009**, 499, 147-152	5.3	14
2	The bond strength of Al□Si coating on mild steel by kinetic spraying deposition. *Applied Surface Science*, **2006**, 252, 7809-7814	6.7	53
1	Factor analysis thermography for defect detection of panel paintings. *Quantitative InfraRed Thermography Journal*,1-13	1.1	1