

# Xingke Zhao

## List of Publications by Year in descending order

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69  
papers

1,531  
citations

393982

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329751

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69  
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69  
docs citations

69  
times ranked

1112  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructures and mechanical property of laser butt welding of titanium alloy to stainless steel. <i>Materials &amp; Design</i> , 2014, 53, 504-511.	5.1	171
2	Influence of processing parameters on the characteristics of stainless steel/copper laser welding. <i>Journal of Materials Processing Technology</i> , 2015, 222, 43-51.	3.1	141
3	Microstructural Characteristics of a Stainless Steel/Copper Dissimilar Joint Made by Laser Welding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3690-3696.	1.1	103
4	Interaction Between the Growth and Dissolution of Intermetallic Compounds in the Interfacial Reaction Between Solid Iron and Liquid Aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5088-5100.	1.1	77
5	Microstructures and mechanical properties of Cf/SiC composite and TC4 alloy joints brazed with (Ti-Zr-Cu-Ni)+W composite filler materials. <i>Composites Science and Technology</i> , 2014, 97, 19-26.	3.8	76
6	Influence of a Ni-foil interlayer on Fe/Al dissimilar joint by laser penetration welding. <i>Materials Letters</i> , 2012, 79, 296-299.	1.3	75
7	Interface microstructure and fracture behavior of single/dual-beam laser welded steel-Al dissimilar joint produced with copper interlayer. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 631-643.	1.5	71
8	Phase structure and thermophysical properties of co-doped La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> ceramics for thermal barrier coatings. <i>Ceramics International</i> , 2012, 38, 3607-3612.	2.3	63
9	Microstructures and Mechanical Properties of Laser Penetration Welding Joint With/Without Ni-Foil in an Overlap Steel-on-Aluminum Configuration. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 3064-3073.	1.1	50
10	Microstructures and properties of double-ceramic-layer thermal barrier coatings of La <sub>2</sub> (Zr <sub>0.7</sub> Ce <sub>0.3</sub> ) <sub>2</sub> O <sub>7</sub> /8YSZ made by atmospheric plasma spraying. <i>Applied Surface Science</i> , 2015, 340, 173-181.	3.1	46
11	Pore structures of high-porosity NiTi alloys made from elemental powders with NaCl temporary space-holders. <i>Materials Letters</i> , 2009, 63, 2402-2404.	1.3	40
12	Superplastic deformation mechanism and mechanical behavior of a laser-welded Ti-6Al-4V alloy joint. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 541, 110-119.	2.6	36
13	Effect of thermal-shearing cycling on Ag <sub>3</sub> Sn microstructural coarsening in SnAgCu solder. <i>Journal of Alloys and Compounds</i> , 2009, 469, 102-107.	2.8	34
14	Active brazing of carbon fiber reinforced SiC composite and 304 stainless steel with Ti-Zr-Be. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 617, 66-72.	2.6	30
15	Laser penetration welding of an overlap titanium-on-aluminum configuration. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 3069-3079.	1.5	29
16	Corrosion behavior of phosphorus ion-implanted Ni <sub>50.6</sub> Ti <sub>49.4</sub> shape memory alloy. <i>Surface and Coatings Technology</i> , 2002, 155, 236-238.	2.2	23
17	Joining of Cf/SiC composite to Ti-6Al-4V with (Ti-Zr-Cu-Ni)+Ti filler based on in-situ alloying concept. <i>Ceramics International</i> , 2017, 43, 4151-4158.	2.3	23
18	Interfacial microstructure evolution and mechanical properties of TC4 alloy/304 stainless steel joints with different joining modes. <i>Journal of Manufacturing Processes</i> , 2018, 36, 115-125.	2.8	23

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19	Microstructures of cerium added laser weld of a TiNi alloy. <i>Materials Letters</i> , 2008, 62, 1551-1553.	1.3	22
20	A new partial transient liquid-phase bonding process with powder-mixture interlayer for bonding Cf/SiC composite and Ti-6Al-4V alloy. <i>Materials Letters</i> , 2015, 143, 237-240.	1.3	19
21	Microstructure and properties of in-situ Ti <sub>5</sub> Si <sub>3</sub> -TiC composite coatings by reactive plasma spraying. <i>Applied Surface Science</i> , 2020, 508, 145264.	3.1	19
22	Enhanced electrical conductivity and hardness of Copper/Carbon Nanotubes composite by tuning the interface structure. <i>Materials Letters</i> , 2020, 280, 128564.	1.3	18
23	Morphology and hydrophobicity of a polyurethane film molded on a porous anodic alumina template. <i>Surface and Coatings Technology</i> , 2006, 200, 3492-3495.	2.2	17
24	Joints of Cf/SiC Composite to Ti-Alloy with In-Situ Synthesized TiC Improved Brazing Layers. <i>Materials Transactions</i> , 2006, 47, 1261-1263.	0.4	15
25	Brazing of 6061 aluminum alloy with the novel Al-Si-Ge-Zn filler metal. <i>Materials Letters</i> , 2016, 179, 47-51.	1.3	15
26	Correlation between microstructure and mechanical properties of active brazed Cf/SiC composite joints using Ti-Zr-Be. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 667, 332-339.	2.6	15
27	Mechanical properties of additive laser-welded NiTi alloy. <i>Materials Letters</i> , 2010, 64, 628-631.	1.3	14
28	Preparation and Properties of a Novel Al-Si-Ge-Zn Filler Metal for Brazing Aluminum. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2327-2334.	1.2	14
29	Reactive composite-diffusing brazing of Cf/SiC composite and stainless steel with (Cu-15Ti)+C filler material. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139582.	2.6	14
30	Microstructure and properties of Ti-Fe <sub>36</sub> Ni cermet coatings by reactive plasma spraying using sucrose as carbonaceous precursor. <i>Applied Surface Science</i> , 2008, 254, 6687-6692.	3.1	13
31	Microstructure and superplasticity of laser welded Ti-6Al-4V alloy. <i>Materials &amp; Design</i> , 2010, 31, 620-623.	5.1	13
32	Microstructural Evolution of Ni-Sn Transient Liquid Phase Sintering Bond during High-Temperature Aging. <i>Journal of Electronic Materials</i> , 2018, 47, 4642-4652.	1.0	13
33	A novel process with the characteristics of low-temperature bonding and high-temperature resisting for joining Cf/SiC composite to GH3044 alloy. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5468-5472.	2.8	12
34	In-situ synthesis and microstructure of Ti-Fe <sub>36</sub> Ni composite coatings by reactive detonation-gun spraying. <i>Materials Letters</i> , 2008, 62, 2009-2012.	1.3	11
35	Reaction-composite diffusion brazing of C-SiC composite and Ni-based superalloy using mixed (Cu-Ti)+C powder as an interlayer. <i>Journal of Materials Processing Technology</i> , 2022, 300, 117419.	3.1	11
36	Two-stage superelasticity of a Ce-added laser-welded TiNi alloy. <i>Materials Letters</i> , 2008, 62, 3539-3541.	1.3	10

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37	Growth Behavior of Intermetallic Compounds at SnAgCu/Ni and Cu Interfaces. Journal of Materials Engineering and Performance, 2010, 19, 129-134.	1.2	10
38	Effect of Si content on the microstructure and properties of Ti-Si-C composite coatings prepared by reactive plasma spraying. Ceramics International, 2021, 47, 24438-24452.	2.3	10
39	Microstructures and Mechanical Properties of Laser Welding Joint of a CLAM Steel with Revised Chemical Compositions. Journal of Materials Engineering and Performance, 2016, 25, 1848-1855.	1.2	9
40	Vacuum brazing of NiTi alloy by AgCu eutectic filler. Materials Science and Technology, 2009, 25, 1495-1497.	0.8	8
41	An ultra-hard and thick composite coating metallurgically bonded to Ti-6Al-4V. Surface and Coatings Technology, 2015, 278, 157-162.	2.2	8
42	A Study on the Microstructures and Properties of Selective Laser Melted Babbitt Metals. Journal of Materials Engineering and Performance, 2019, 28, 5433-5440.	1.2	8
43	Interfacial characteristics and mechanical properties of aluminum / steel butt joints fabricated by a newly developed high-frequency electric cooperated arc welding-brazing process. Journal of Materials Processing Technology, 2021, 298, 117317.	3.1	8
44	TLP bonding of SiCp/2618Al composites using mixed Al-Ag-Cu system powders as interlayers. Journal of Materials Science, 2007, 42, 9746-9749.	1.7	7
45	Expanded Lever Rule for Phase Volume Fraction Calculation of High-Strength Low-Alloy Steel in Thermal Simulation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2795-2803.	1.1	7
46	Joining of high thermal-expansion mismatched C-SiC composite and stainless steel by an Ag-Ti-Mo mixed powder filler. Materials Letters, 2019, 256, 126632.	1.3	7
47	Growth Kinetics of Ni <sub>3</sub> Sn <sub>4</sub> in the Solid-Liquid Interfacial Reaction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3038-3043.	1.1	7
48	Interfacial Behavior and Its Effect on Mechanical Properties of Cf/SiC Composite/TiAl <sub>6</sub> V <sub>4</sub> Joint Brazed with TiZrCuNi. Journal of Materials Engineering and Performance, 2017, 26, 1114-1121.	1.2	6
49	Transient Liquid-Phase Sintering Bonding Based on Cu <sub>40</sub> Sn <sub>60</sub> (wt.%) Core/Shell Particles for High-Temperature Power Device Packaging. Journal of Electronic Materials, 2021, 50, 7283-7292.	1.0	6
50	Microstructure and tribological behavior of the nickel-coated-graphite-reinforced Babbitt metal composite fabricated via selective laser melting. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 320-326.	2.4	6
51	Mechanical activation of pre-alloyed NiTi <sub>2</sub> and elemental Ni for the synthesis of NiTi alloys. Journal of Materials Science, 2018, 53, 13432-13441.	1.7	5
52	Join Al-steel dissimilar metal by novel high frequency electric cooperated arc welding. Science and Technology of Welding and Joining, 2019, 24, 721-723.	1.5	5
53	A novel high efficiency low heat input welding method: High frequency electric cooperated arc welding. Materials Letters, 2019, 252, 142-145.	1.3	5
54	Mechanisms of an innovative hybrid arc welding process in enhancing joint penetration and weld property control through resistive and induction heat. Journal of Manufacturing Processes, 2021, 72, 500-514.	2.8	5

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55	Influence of Sr additions on microstructure and properties of Al-Si-Ge-Zn filler metal for brazing 6061 aluminum alloy. <i>Journal of Materials Research</i> , 2017, 32, 822-830.	1.2	4
56	In situ synthesis of TiC/Ti coatings by reactive plasma spraying. <i>Materials Science and Technology</i> , 2020, 36, 511-515.	0.8	4
57	Elastocaloric Performance of Pseudoelastic NiTi Coiled Wires. <i>Shape Memory and Superelasticity</i> , 2021, 7, 101-108.	1.1	4
58	Soldering Zr metallic glass to Ti alloy using pre-cladding ultrasonic processes. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1225-1234.	1.3	4
59	Study on microstructure evolution and reaction mechanism of in-flight Ti-Si-C agglomerates during reactive plasma spraying using in situ water quenching. <i>Ceramics International</i> , 2022, 48, 18866-18875.	2.3	3
60	Effect of NiTi content and test temperature on mechanical behaviors of NiTi-PU composites. <i>International Journal of Lightweight Materials and Manufacture</i> , 2018, 1, 215-218.	1.3	2
61	Evaluation on Dorsey Method in Surface Tension Measurement of Solder Liquids Containing Surfactants. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	2
62	Growth Behavior of IMCs and Fracture Forming Mechanism at Sn-Ag-Cu/Cu Interfaces under Thermal-Shearing Cycling Condition. , 2006, , .		1
63	Martensitic transformation behaviour of non-equilibrium heat treated Ni <sub>50</sub> Ti <sub>49</sub> Al <sub>1</sub> alloys. <i>Materials Science and Technology</i> , 2011, 27, 437-439.	0.8	1
64	Characterization of Cu <sub>3</sub> P phase in Sn <sub>3.0</sub> Ag <sub>0.5</sub> Cu <sub>0.5</sub> P/Cu solder joints. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 65-70.	2.4	1
65	THERMAL SHOCK RESISTANCE OF La <sub>2</sub> (Zr <sub>0.7</sub> Ce <sub>0.3</sub> ) <sub>2</sub> O <sub>7</sub> THERMAL BARRIER COATING PREPARED BY ATMOSPHERIC PLASMA SPRAYING. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2012, 48, 965.	0.3	1
66	Study on the Kinetics of Ni <sub>3</sub> Sn <sub>4</sub> Growth and Isothermal Solidification in Ni-Sn TLPS Bonding Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 1704-1716.	1.1	1
67	Microstructure of phosphorus ion-implanted TiNi alloy. <i>Journal of Materials Science</i> , 2005, 40, 5291-5293.	1.7	0
68	Effect of Thermal-Shearing Induced Microstructural Coarsening on SnAgCu Microelectronic Solder. , 2007, , .		0
69	Microstructural Transformation on SnAgCu/Cu Interface Induced by Thermal-shearing Cycling. , 2008, , .		0