

Wenming Jiang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Improving mechanical properties of AZ91D magnesium/A356 aluminum bimetal prepared by compound casting via a high velocity oxygen fuel sprayed Ni coating. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1075-1085.	11.9	39
2	Preparation of Al ₂ O ₃ /AZ91D Mg Interpenetrating Composites Using Lost Foam Casting Combined with Layered Extrusion Forming. <i>Metals and Materials International</i> , 2022, 28, 1047-1052.	3.4	1
3	Effect of La on microstructure, mechanical properties and fracture behavior of Al/Mg bimetallic interface manufactured by compound casting. <i>Journal of Materials Science and Technology</i> , 2022, 105, 214-225.	10.7	32
4	3D printing of high-strength water-soluble salt cores via material extrusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 2993-3003.	3.0	10
5	Development of high strength Mg/Al bimetal by a novel ultrasonic vibration aided compound casting process. <i>Journal of Materials Processing Technology</i> , 2022, 300, 117441.	6.3	23
6	Understanding the microstructural evolution and strengthening mechanism of Al/Mg bimetallic interface via the introduction of Y. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142974.	5.6	10
7	Effect of vibration on interfacial microstructure and mechanical properties of Mg/Al bimetal prepared by a novel compound casting. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 2296-2309.	11.9	23
8	Comparative Study on the Hardness and Wear Resistance of the Remelted Gradient Layer on Ductile Iron Fabricated by Plasma Transferred Arc. <i>Metals</i> , 2022, 12, 644.	2.3	3
9	Effect of Vibration Acceleration on Interface Microstructure and Bonding Strength of Mg-Al Bimetal Produced by Compound Casting. <i>Metals</i> , 2022, 12, 766.	2.3	6
10	Effect of silica sol on performance and surface precision of alumina ceramic shell prepared by binder jetting. <i>Ceramics International</i> , 2022, 48, 24372-24382.	4.8	7
11	Investigation on characteristic and formation mechanism of porosity defects of Al-Li alloys prepared by sand casting. <i>Journal of Materials Research and Technology</i> , 2022, 19, 4063-4075.	5.8	8
12	Interfacial characteristics, mechanical properties and fracture behaviour of Al/Mg bimetallic composites by compound casting with different morphologies of Al insert. <i>International Journal of Cast Metals Research</i> , 2022, 35, 84-101.	1.0	3
13	Microstructure, Mechanical Properties and Fracture Behavior of Magnesium/Steel Bimetal Using Compound Casting Assisted with Hot-Dip Aluminizing. <i>Metals and Materials International</i> , 2021, 27, 2977-2988.	3.4	13
14	Effects of glass fiber size and content on microstructures and properties of KNO ₃ -based water-soluble salt core for high pressure die casting. <i>International Journal of Metalcasting</i> , 2021, 15, 520-529.	1.9	10
15	Microstructure, mechanical properties and corrosion resistance of A356 aluminum/AZ91D magnesium bimetal prepared by a compound casting combined with a novel Ni-Cu composite interlayer. <i>Journal of Materials Processing Technology</i> , 2021, 288, 116874.	6.3	99
16	Comprehensive utilization of foundry dust: Coal powder and clay minerals separation by ultrasonic-assisted flotation. <i>Journal of Hazardous Materials</i> , 2021, 402, 124124.	12.4	19
17	Investigation on corrosion mechanism of stirring paddles of different iron-based materials in ZL101 aluminum melt. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1992-2005.	5.8	4
18	Enhanced mechanical properties of 6082 aluminum alloy via SiC addition combined with squeeze casting. <i>Journal of Materials Science and Technology</i> , 2021, 88, 119-131.	10.7	88

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19	Improved interface bonding of Al/Mg bimetal fabricated by compound casting with Nd addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 826, 141998.	5.6	19
20	The role of vibration time in interfacial microstructure and mechanical properties of Al/Mg bimetallic composites produced by a novel compound casting. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3867-3879.	5.8	14
21	Direct ink writing additive manufacturing of porous alumina-based ceramic cores modified with nanosized MgO. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5758-5766.	5.7	46
22	Comparative study on performance and microstructure of composite water-soluble salt core material for manufacturing hollow zinc alloy castings. <i>Materials Chemistry and Physics</i> , 2020, 252, 123257.	4.0	17
23	Effect of nano-TiO ₂ on properties of 3 mol% yttria-stabilized zirconia ceramic via layered extrusion forming. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4539-4546.	5.7	17
24	Effect of different Ni interlayers on interfacial microstructure and bonding properties of Al/Mg bimetal using a novel compound casting. <i>Journal of Manufacturing Processes</i> , 2020, 50, 614-628.	5.9	16
25	Microstructure and mechanical properties of SiCnp/Al6082 aluminum matrix composites prepared by squeeze casting combined with stir casting. <i>Journal of Materials Processing Technology</i> , 2020, 283, 116699.	6.3	148
26	Layered extrusion forming of complex ceramic structures using starch as removable support. <i>Ceramics International</i> , 2019, 45, 21843-21850.	4.8	13
27	Preparation of porous Al ₂ O ₃ ceramic microspheres by a novel micro-droplet jetting rapid forming method. <i>Ceramics International</i> , 2019, 45, 20583-20588.	4.8	15
28	Interfacial bonding mechanism and pouring temperature effect on Al/Cu bimetal prepared by a novel compound casting process. <i>Materials Research Express</i> , 2019, 6, 096529.	1.6	10
29	Effect of insert materials on microstructure and mechanical properties of Al/Mg bimetal produced by a novel solid-liquid compound process. <i>Journal of Manufacturing Processes</i> , 2019, 47, 62-73.	5.9	14
30	Fabrication of soluble salt-based support for suspended ceramic structure by layered extrusion forming method. <i>Materials and Design</i> , 2019, 183, 108173.	7.0	11
31	Performance characteristics of collapsible CaO-SiO ₂ based ceramic core material via layered extrusion forming. <i>Ceramics International</i> , 2019, 45, 7681-7689.	4.8	15
32	Evaluation of Chromium Carbide Coatings on AISI 52100 Steel Obtained by Thermo-Reactive Diffusion Technique. <i>Medziagotyra</i> , 2019, 25, .	0.2	0
33	Recycling water glass from wet reclamation sewage of waste sodium silicate-bonded sand. <i>China Foundry</i> , 2019, 16, 198-203.	1.4	7
34	Processing of Al/Cu bimetal via a novel compound casting method. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1016-1025.	4.7	20
35	Interface characteristics of Mg/Al bimetal produced by a novel liquid-liquid compound casting process with an Al interlayer. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 1125-1132.	3.0	11
36	The role of vacuum degree in the bonding of Al/Mg bimetal prepared by a compound casting process. <i>Journal of Materials Processing Technology</i> , 2019, 265, 112-121.	6.3	42

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37	New Insights into the Characterization and Formation of the Interface of A356/AZ91D Bimetallic Composites Fabricated by Compound Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 1076-1090.	2.2	39
38	Effect of heat treatment on bonding strength of aluminum/steel bimetal produced by a compound casting. <i>Journal of Materials Processing Technology</i> , 2018, 258, 239-250.	6.3	51
39	Investigation of parameters and mechanism of ultrasound-assisted wet reclamation of waste sodium silicate sands. <i>International Journal of Cast Metals Research</i> , 2018, 31, 169-176.	1.0	10
40	Effect of heat treatment on microstructures and mechanical properties of Al/Fe bimetal. <i>Materials Science and Technology</i> , 2018, 34, 1519-1528.	1.6	12
41	Fabrication and characterization of high-strength water-soluble composite salt core for zinc alloy die castings. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 505-512.	3.0	20
42	Microstructure of Al/Al bimetallic composites by lost foam casting with Zn interlayer. <i>Materials Science and Technology</i> , 2018, 34, 487-492.	1.6	12
43	Novel technologies for the lost foam casting process. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 37-47.	4.3	15
44	Characteristics and wear performance of borided AISI 440C martensitic stainless steel. <i>Materials Express</i> , 2018, 8, 500-510.	0.5	4
45	Study on causticizing process of sewage discharged from wet reclamation of waste sodium silicate sand. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 199, 042015.	0.3	0
46	A water-soluble magnesium sulfate bonded sand core material for manufacturing hollow composite castings. <i>Composite Structures</i> , 2018, 201, 553-560.	5.8	12
47	Interfacial microstructures and mechanical properties of Mg/Al bimetal produced by a novel liquid-liquid compound casting process. <i>Journal of Materials Processing Technology</i> , 2018, 261, 149-158.	6.3	57
48	Fabrication and microstructure evolution of Al/Mg bimetal using a near-net forming process. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1391-1397.	4.7	33
49	Effects of pouring temperature on microstructure, mechanical properties, and fracture behavior of Al/Mg bimetallic composites produced by lost foam casting process. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 1355-1368.	3.0	36
50	Performance of resin bonded sand for magnesium alloy casting. <i>Journal of Manufacturing Processes</i> , 2017, 30, 313-319.	5.9	17
51	Effects of zinc coating on interfacial microstructures and mechanical properties of aluminum/steel bimetallic composites. <i>Journal of Alloys and Compounds</i> , 2016, 678, 249-257.	5.5	54
52	Investigation on the Interface Characteristics of Al/Mg Bimetallic Castings Processed by Lost Foam Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 2462-2470.	2.2	64
53	Performance of water-soluble composite sulfate sand core for magnesium alloy castings. <i>Archives of Civil and Mechanical Engineering</i> , 2016, 16, 494-502.	3.8	11
54	Effects of Melt-to-Solid Insert Volume Ratio on the Microstructures and Mechanical Properties of Al/Mg Bimetallic Castings Produced by Lost Foam Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 6487-6497.	2.2	40

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55	Effects of hot-dip galvanizing and aluminizing on interfacial microstructures and mechanical properties of aluminum/iron bimetallic composites. <i>Journal of Alloys and Compounds</i> , 2016, 688, 742-751.	5.5	48
56	Effects of vibration frequency on microstructure, mechanical properties, and fracture behavior of A356 aluminum alloy obtained by expendable pattern shell casting. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 167-175.	3.0	58
57	Improved steel/aluminum bonding in bimetallic castings by a compound casting process. <i>Journal of Materials Processing Technology</i> , 2015, 226, 25-31.	6.3	82
58	Effects of Mechanical Vibration and Wall Thickness on Microstructure and Mechanical Properties of AZ91D Magnesium Alloy Processed by Expendable Pattern Shell Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1776-1788.	2.2	6
59	Combined effects of mechanical vibration and wall thickness on microstructure and mechanical properties of A356 aluminum alloy produced by expendable pattern shell casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 619, 228-237.	5.6	61
60	Effects of rare earth elements addition on microstructures, tensile properties and fractography of A357 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 597, 237-244.	5.6	147
61	Influence of gas flowrate on filling ability and internal quality of A356 aluminum alloy castings fabricated using the expendable pattern shell casting with vacuum and low pressure. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 2459-2468.	3.0	30
62	Correlation of microstructure with mechanical properties and fracture behavior of A356-T6 aluminum alloy fabricated by expendable pattern shell casting with vacuum and low-pressure, gravity casting and lost foam casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 396-403.	5.6	91
63	Influence of process parameters on filling ability of A356 aluminium alloy in expendable pattern shell casting with vacuum and low pressure. <i>International Journal of Cast Metals Research</i> , 2012, 25, 47-52.	1.0	28
64	Effects of Process Parameters on Internal Quality of Castings during Novel Casting. <i>Materials and Manufacturing Processes</i> , 2012, 28, 48-55.	4.7	23
65	Microstructure, tensile properties and fractography of A356 alloy under as-cast and T6 obtained with expendable pattern shell casting process. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, s7-s13.	4.2	36
66	Study on the surface roughness of ceramic shells and castings in the ceramic shell casting process based on expandable pattern. <i>Journal of Materials Processing Technology</i> , 2011, 211, 1465-1470.	6.3	19
67	Investigation of microstructures and mechanical properties of A356 aluminum alloy produced by expendable pattern shell casting process with vacuum and low pressure. <i>Materials & Design</i> , 2011, 32, 926-934.	5.1	31
68	A new shell casting process based on expendable pattern with vacuum and low-pressure casting for aluminum and magnesium alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 51, 25-34.	3.0	32
69	Properties Optimization and Strengthening Mechanism of KNO ₃ •KCl Water-Soluble Composite Salt Core for Hollow Zinc Alloy Die Castings. <i>International Journal of Metalcasting</i> , 0, , 1.	1.9	0