

# Haimin Zhai

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

669  
citations

471509

17  
h-index

580821

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

385  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying the origin of strain rate sensitivity in a high entropy bulk metallic glass. <i>Scripta Materialia</i> , 2019, 164, 121-125.	5.2	65
2	A strategy for designing bulk metallic glass composites with excellent work-hardening and large tensile ductility. <i>Journal of Alloys and Compounds</i> , 2016, 685, 322-330.	5.5	58
3	Application of the maximal entropy production principle to rapid solidification: A sharp interface model. <i>Acta Materialia</i> , 2012, 60, 1444-1454.	7.9	55
4	Identifying the significance of Sn addition on the tribological performance of Ti-based bulk metallic glass composites. <i>Journal of Alloys and Compounds</i> , 2019, 780, 671-679.	5.5	55
5	Modeling rapid solidification of multi-component concentrated alloys. <i>Acta Materialia</i> , 2013, 61, 1359-1372.	7.9	38
6	Dry sliding wear behaviors of Fe-based amorphous metallic coating synthesized by d-gun spray. <i>Journal of Non-Crystalline Solids</i> , 2020, 537, 120018.	3.1	37
7	Modeling dendrite growth in undercooled concentrated multi-component alloys. <i>Acta Materialia</i> , 2013, 61, 4254-4265.	7.9	31
8	Effects of Sn addition on mechanical properties of Ti-based bulk metallic glass composites. <i>Materials and Design</i> , 2016, 110, 782-789.	7.0	31
9	Microstructure and corrosion resistance of Fe-based amorphous coating prepared by detonation spray. <i>Surface and Coatings Technology</i> , 2020, 399, 126096.	4.8	28
10	Corrosion resistance mechanisms of detonation sprayed Fe-based amorphous coating on AZ31B magnesium alloy. <i>Journal of Non-Crystalline Solids</i> , 2022, 576, 121276.	3.1	27
11	Enhancing the plasticity of a Ti-based bulk metallic glass composite by cryogenic cycling treatments. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155247.	5.5	24
12	Strategy for improving the wear-resistance properties of detonation sprayed Fe-based amorphous coatings by cryogenic cycling treatment. <i>Surface and Coatings Technology</i> , 2021, 410, 126962.	4.8	23
13	Microstructure and tribological properties of laser in-situ synthesized Ti <sub>3</sub> Al composite coating on Ti-6Al-4V. <i>Surface and Coatings Technology</i> , 2020, 395, 125944.	4.8	22
14	Effect of transition metal elements (Cu, Ni, Co and Fe) on the mechanical properties of Ti-based bulk metallic glass composites. <i>Journal of Alloys and Compounds</i> , 2017, 694, 1-9.	5.5	21
15	Tailoring shear banding behaviors in high entropy bulk metallic glass by minor Sn addition: A nanoindentation study. <i>Journal of Alloys and Compounds</i> , 2018, 762, 422-430.	5.5	21
16	The Corrosion Resistance Mechanism of Fe-Based Amorphous Coatings Synthesised by Detonation Gun Spraying. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3921-3929.	2.5	21
17	Modulating mechanical properties of Ti-based bulk metallic glass composites by tailoring dendrite composition with Sn addition. <i>Journal of Alloys and Compounds</i> , 2018, 745, 16-25.	5.5	18
18	Characterizations the deposition behavior and mechanical properties of detonation sprayed Fe-based amorphous coatings. <i>Journal of Materials Research and Technology</i> , 2022, 18, 2506-2518.	5.8	15

#	ARTICLE	IF	CITATIONS
19	Morphological stability analysis for planar interface during rapidly directional solidification of concentrated multi-component alloys. <i>Acta Materialia</i> , 2014, 67, 220-231.	7.9	13
20	Improving the wear performance of a commercial Vit 1 amorphous alloy by a cryogenic cycling treatment. <i>Journal of Materials Science</i> , 2021, 56, 8276-8287.	3.7	12
21	Oscillatory morphological stability for rapid directional solidification: Effect of non-linear liquidus and solidus. <i>Acta Materialia</i> , 2011, 59, 5859-5867.	7.9	10
22	Strain rate sensitivity and deformation behavior in a Ti-based bulk metallic glass composite. <i>Journal of Non-Crystalline Solids</i> , 2017, 471, 128-136.	3.1	10
23	Microstructure and tribological properties of Fe-based amorphous coating prepared by detonation spray. <i>Journal of Non-Crystalline Solids</i> , 2021, 556, 120564.	3.1	9
24	Room temperature nanoindentation creep behavior of detonation sprayed Fe-based amorphous coating. <i>Intermetallics</i> , 2022, 141, 107426.	3.9	9
25	Study of Dry Sliding Wear Behavior of a Fe-Based Amorphous Coating Synthesized by Detonation Spraying on an AZ31B Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 905-917.	2.5	8
26	Optimization of the HVOF Spray Deposition of Ni3Al Coatings on Stainless Steel. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 1598-1608.	3.1	3
27	Rate-dependent nanoindentation creep behavior of a Fe-based amorphous coating. <i>Journal of Non-Crystalline Solids</i> , 2022, 590, 121668.	3.1	3
28	Dry sliding wear mechanisms of Ce in aluminum bronze coatings. <i>Journal of Materials Science</i> , 2020, 55, 3045-3055.	3.7	2