

# Gian Song

## 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.

37  
papers

594  
citations

15  
h-index

23  
g-index

37  
ext. papers

701  
ext. citations

4.9  
avg, IF

3.59  
L-index

#	Paper	IF	Citations
37	Outstanding high-temperature strength of novel Fe-Cr-Ni-Al-V ferritic alloys with hierarchical B2/NiAl precipitates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 840, 142999	5.3	0
36	Developing high-strength ferritic alloys reinforced by combination of hierarchical and laves precipitates. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 856, 158162	5.7	4
35	Development of coherent-precipitate-hardened high-entropy alloys with hierarchical NiAl/Ni <sub>2</sub> TiAl precipitates in CrMnFeCoNiAl <sub>x</sub> Ti <sub>y</sub> alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 823, 141763	5.3	3
34	Temperature dependence of elastic and plastic deformation behavior of a refractory high-entropy alloy. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	39
33	Optimization of B2/L21 hierarchical precipitate structure to improve creep resistance of a ferritic Fe-Ni-Al-Cr-Ti superalloy via thermal treatments. <i>Scripta Materialia</i> , <b>2019</b> , 161, 18-22	5.6	20
32	bem: modeling for neutron Bragg-edge imaging. <i>Journal of Open Source Software</i> , <b>2018</b> , 3, 973	5.2	
31	Microstructural evolution of single Ni <sub>2</sub> TiAl or hierarchical NiAl/Ni <sub>2</sub> TiAl precipitates in Fe-Ni-Al-Cr-Ti ferritic alloys during thermal treatment for elevated-temperature applications. <i>Acta Materialia</i> , <b>2017</b> , 127, 1-16	8.4	44
30	Primary and secondary precipitates in a hierarchical-precipitate-strengthened ferritic alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 706, 584-588	5.7	12
29	High Temperature Deformation Mechanism in Hierarchical and Single Precipitate Strengthened Ferritic Alloys by In Situ Neutron Diffraction Studies. <i>Scientific Reports</i> , <b>2017</b> , 7, 45965	4.9	17
28	Martensitic transformation in a B2-containing CuZr-based BMG composite revealed by in situ neutron diffraction. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 723, 714-721	5.7	15
27	Microstructural characteristics of a Ni <sub>2</sub> TiAl-precipitate-strengthened ferritic alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 693, 921-928	5.7	24
26	Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. <i>Journal of Imaging</i> , <b>2017</b> , 3, 65	3.1	22
25	Load partitioning between the bcc-iron matrix and NiAl-type precipitates in a ferritic alloy on multiple length scales. <i>Scientific Reports</i> , <b>2016</b> , 6, 23137	4.9	7
24	Ferritic Alloys with Extreme Creep Resistance via Coherent Hierarchical Precipitates. <i>Scientific Reports</i> , <b>2015</b> , 5, 16327	4.9	66
23	Nano-sized precipitate stability and its controlling factors in a NiAl-strengthened ferritic alloy. <i>Scientific Reports</i> , <b>2015</b> , 5, 16081	4.9	28
22	Duplex Precipitates and Their Effects on the Room-temperature Fracture Behaviour of a NiAl-Strengthened Ferritic Alloy. <i>Materials Research Letters</i> , <b>2015</b> , 3, 128-134	7.4	29
21	Investigation of the mechanical properties of Ti-Fe-Sn ultrafine eutectic composites by dendrite phase selection. <i>Metals and Materials International</i> , <b>2014</b> , 20, 417-421	2.4	9

20	Chemical heterogeneity-induced plasticity in TiBeBi ultrafine eutectic alloys. <i>Materials &amp; Design</i> , <b>2014</b> , 60, 363-367		20
19	Heterogeneous duplex structured TiSnMo alloys with high strength and large plastic deformability. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 574, 546-551	5-7	12
18	New design aspects of creep-resistant NiAl-strengthened ferritic alloys. <i>Scripta Materialia</i> , <b>2013</b> , 68, 384-388	5-8	63
17	Optimization of mechanical properties of TiBeSn alloys by controlling heterogeneous eutectic structure. <i>Intermetallics</i> , <b>2012</b> , 23, 27-31	3-5	13
16	Solid-state phase transformation-induced heterogeneous duplex structure in TiSnBe alloys. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 515, 86-89	5-7	10
15	Necking mechanisms on porous metallic glass and W compacts using electro-discharge sintering. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S78-S82	5-7	10
14	Formation of bimodal eutectic structure in Ti <sub>63.5</sub> Fe <sub>30.5</sub> Sn <sub>6</sub> and Mg <sub>72</sub> Cu <sub>5</sub> Zn <sub>23</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S353-S356	5-7	10
13	Effect of solubility on strengthening of AgCu ultrafine eutectic composites. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 9015-9018	5-7	7
12	Heterogeneous eutectic structure in TiBeSn alloys. <i>Intermetallics</i> , <b>2011</b> , 19, 536-540	3-5	27
11	Effect of microstructure modulation on mechanical properties of Ti-Fe-Sn ultrafine eutectic composites. <i>Metals and Materials International</i> , <b>2011</b> , 17, 873-877	2-4	16
10	FABRICATION OF POROUS Ti- AND W-COMPACTS BY ELECTRO-DISCHARGE-SINTERING PROCESS. <i>Surface Review and Letters</i> , <b>2010</b> , 17, 245-250	1-1	5
9	Effect of Si on microstructure and mechanical properties of Fe-based ultrafine eutectic composites. <i>Intermetallics</i> , <b>2010</b> , 18, 1856-1859	3-5	4
8	Effect of Nb on microstructure and mechanical properties of ultrafine eutectic FeNiBSi composites. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 504, S487-S490	5-7	2
7	Microstructural modulation of TiBeV ultrafine eutectic alloys with enhanced mechanical properties. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 491, 178-181	5-7	8
6	Influence of hetero-duplex structure on mechanical properties of MgAl/CuZn alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 528, 371-378	5-3	2
5	Deformation mechanisms of a bimodal eutectic Mg <sub>72</sub> Cu <sub>5</sub> Zn <sub>23</sub> ultrafine composite. <i>Materials Letters</i> , <b>2010</b> , 64, 534-536	3-3	2
4	Microstructural evolution and mechanical properties of MgCuZn ultrafine eutectic composites. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 2892-2898	2-5	10
3	Effect of additional Zn on plasticity of large-scale Mg-based nanostructure-dendrite composites. <i>Metals and Materials International</i> , <b>2009</b> , 15, 175-178	2-4	8

- 2 Mechanical properties of large-scale Mg<sub>70</sub>Zn<sub>30</sub> ultrafine eutectic composites. *Journal of Alloys and Compounds*, **2009**, 481, 135-139 5-7 15
- 1 Understanding of martensitic (TiCu)-based bulk metallic glasses through deformation behavior of a binary Ti<sub>50</sub>Cu<sub>50</sub> martensitic alloy. *Applied Physics Letters*, **2008**, 92, 241915 3-4 11