Gian Song

List of Publications by Citations

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	Ferritic Alloys with Extreme Creep Resistance via Coherent Hierarchical Precipitates. *Scientific Reports*, **2015**, 5, 16327	4.9	66
36	New design aspects of creep-resistant NiAl-strengthened ferritic alloys. *Scripta Materialia*, **2013**, 68, 384-388	3.8	63
35	Microstructural evolution of single Ni2TiAl or hierarchical NiAl/Ni2TiAl precipitates in Fe-Ni-Al-Cr-Ti ferritic alloys during thermal treatment for elevated-temperature applications. *Acta Materialia*, **2017**, 127, 1-16	8.4	44
34	Temperature dependence of elastic and plastic deformation behavior of a refractory high-entropy alloy. *Science Advances*, **2020**, 6,	14.3	39
33	Duplex Precipitates and Their Effects on the Room-temperature Fracture Behaviour of a NiAl-Strengthened Ferritic Alloy. *Materials Research Letters*, **2015**, 3, 128-134	7.4	29
32	Nano-sized precipitate stability and its controlling factors in a NiAl-strengthened ferritic alloy. *Scientific Reports*, **2015**, 5, 16081	4.9	28
31	Heterogeneous eutectic structure in Ti-Fe-Sn alloys. *Intermetallics*, **2011**, 19, 536-540	3.5	27
30	Microstructural characteristics of a Ni2TiAl-precipitate-strengthened ferritic alloy. *Journal of Alloys and Compounds*, **2017**, 693, 921-928	5.7	24
29	Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. *Journal of Imaging*, **2017**, 3, 65	3.1	22
28	Chemical heterogeneity-induced plasticity in Ti-Fe-Bi ultrafine eutectic alloys. *Materials & Design*, **2014**, 60, 363-367		20
27	Optimization of B2/L21 hierarchical precipitate structure to improve creep resistance of a ferritic Fe-Ni-Al-Cr-Ti superalloy via thermal treatments. *Scripta Materialia*, **2019**, 161, 18-22	5.6	20
26	High Temperature Deformation Mechanism in Hierarchical and Single Precipitate Strengthened Ferritic Alloys by In Situ Neutron Diffraction Studies. *Scientific Reports*, **2017**, 7, 45965	4.9	17
25	Effect of microstructure modulation on mechanical properties of Ti-Fe-Sn ultrafine eutectic composites. *Metals and Materials International*, **2011**, 17, 873-877	2.4	16
24	Martensitic transformation in a B2-containing CuZr-based BMG composite revealed by in situ neutron diffraction. *Journal of Alloys and Compounds*, **2017**, 723, 714-721	5.7	15
23	Mechanical properties of large-scale Mg-Cu-Zn ultrafine eutectic composites. *Journal of Alloys and Compounds*, **2009**, 481, 135-139	5.7	15
22	Optimization of mechanical properties of Ti-Fe-Sn alloys by controlling heterogeneous eutectic structure. *Intermetallics*, **2012**, 23, 27-31	3.5	13
21	Primary and secondary precipitates in a hierarchical-precipitate-strengthened ferritic alloy. *Journal of Alloys and Compounds*, **2017**, 706, 584-588	5.7	12

20	Heterogeneous duplex structured Ti5Sn5Mo alloys with high strength and large plastic deformability. *Journal of Alloys and Compounds*, **2013**, 574, 546-551	5.7	12
19	Understanding of martensitic (TiCu)-based bulk metallic glasses through deformation behavior of a binary Ti50Cu50 martensitic alloy. *Applied Physics Letters*, **2008**, 92, 241915	3.4	11
18	Solid-state phase transformation-induced heterogeneous duplex structure in Ti5Sn5Fe alloys. *Journal of Alloys and Compounds*, **2012**, 515, 86-89	5.7	10
17	Necking mechanisms on porous metallic glass and W compacts using electro-discharge sintering. *Journal of Alloys and Compounds*, **2012**, 536, S78-S82	5.7	10
16	Formation of bimodal eutectic structure in Ti63.5Fe30.5Sn6 and Mg72Cu5Zn23 alloys. *Journal of Alloys and Compounds*, **2011**, 509, S353-S356	5.7	10
15	Microstructural evolution and mechanical properties of Mg72Cu5Zn23 ultrafine eutectic composites. *Journal of Materials Research*, **2009**, 24, 2892-2898	2.5	10
14	Investigation of the mechanical properties of Ti-Fe-Sn ultrafine eutectic composites by dendrite phase selection. *Metals and Materials International*, **2014**, 20, 417-421	2.4	9
13	Microstructural modulation of Ti35Fe5V ultrafine eutectic alloys with enhanced mechanical properties. *Journal of Alloys and Compounds*, **2010**, 491, 178-181	5.7	8
12	Effect of additional Zn on plasticity of large-scale Mg-based nanostructure-dendrite composites. *Metals and Materials International*, **2009**, 15, 175-178	2.4	8
11	Effect of solubility on strengthening of AgCu ultrafine eutectic composites. *Journal of Alloys and Compounds*, **2011**, 509, 9015-9018	5.7	7
10	Load partitioning between the bcc-iron matrix and NiAl-type precipitates in a ferritic alloy on multiple length scales. *Scientific Reports*, **2016**, 6, 23137	4.9	7
9	FABRICATION OF POROUS Ti- AND W-COMPACTS BY ELECTRO-DISCHARGE-SINTERING PROCESS. *Surface Review and Letters*, **2010**, 17, 245-250	1.1	5
8	Effect of Si on microstructure and mechanical properties of Fe-based ultrafine eutectic composites. *Intermetallics*, **2010**, 18, 1856-1859	3.5	4
7	Developing high-strength ferritic alloys reinforced by combination of hierarchical and laves precipitates. *Journal of Alloys and Compounds*, **2021**, 856, 158162	5.7	4
6	Development of coherent-precipitate-hardened high-entropy alloys with hierarchical NiAl/Ni2TiAl precipitates in CrMnFeCoNiAlxTiy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 823, 141763	5.3	3
5	Effect of Nb on microstructure and mechanical properties of ultrafine eutectic Fe2Ni3Si composites. *Journal of Alloys and Compounds*, **2010**, 504, S487-S490	5.7	2
4	Influence of hetero-duplex structure on mechanical properties of Mg2Al/Cu2Zn alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 528, 371-378	5.3	2
3	Deformation mechanisms of a bimodal eutectic Mg72Cu5Zn23 ultrafine composite. *Materials Letters*, **2010**, 64, 534-536	3.3	2

2	Outstanding high-temperature strength of novel Fe-Cr-Ni-Al-Y ferritic alloys with hierarchical B2-NiAl precipitates. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 840, 142999	5.3	0
1	bem: modeling for neutron Bragg-edge imaging. *Journal of Open Source Software*, **2018**, 3, 973	5.2	