

Hong Liu

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

741
citations

759233

12
h-index

940533

16
g-index

17
all docs

17
docs citations

17
times ranked

528
citing authors

#	ARTICLE	IF	CITATIONS
1	A simulation study of the shape of Mg_2Si precipitates in Mg-Y and Mg-Gd alloys. Acta Materialia, 2013, 61, 453-466.	7.9	150
2	Simulation study of precipitation in an Mg-Y-Nd alloy. Acta Materialia, 2012, 60, 4819-4832.	7.9	84
3	Precipitation during high temperature aging of Al-Cu alloys: A multiscale analysis based on first principles calculations. Acta Materialia, 2019, 167, 121-135.	7.9	70
4	Multiscale modelling of the morphology and spatial distribution of Mg_2Si precipitates in Al-Cu alloys. Acta Materialia, 2017, 132, 611-626.	7.9	64
5	A simulation study of Mg_2Si precipitation on dislocations in an Mg-rare earth alloy. Acta Materialia, 2014, 77, 133-150.	7.9	60
6	On the structure and role of Mg_2Si in Mg_2Si precipitation in Mg-Nd alloys. Acta Materialia, 2017, 133, 408-426.	7.9	59
7	Metastable precipitate phases in Mg-9.8wt%Sn alloy. Acta Materialia, 2018, 144, 590-600.	7.9	54
8	Formation of and interaction between Mg_2Si and Mg_2Si phases in a Mg-Gd alloy. Journal of Alloys and Compounds, 2017, 712, 334-344.	5.5	48
9	Phase-Field Simulation of Orwan Strengthening by Coherent Precipitate Plates in an Aluminum Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3287-3301.	2.2	41
10	Linear-chain configuration of precipitates in Mg-Nd alloys. Acta Materialia, 2015, 83, 239-247.	7.9	36
11	Formation and autocatalytic nucleation of co-zone Mg_2Si deformation twins in polycrystalline Mg: A phase field simulation study. Acta Materialia, 2018, 153, 86-107.	7.9	25
12	A simulation study of the distribution of Mg_2Si precipitates in a crept Mg-Gd-Zr alloy. Computational Materials Science, 2017, 130, 152-164.	3.0	15
13	Guided Self-Assembly of Nano-Precipitates into Mesocrystals. Scientific Reports, 2015, 5, 16530.	3.3	12
14	Phase field simulation of microstructures of Mg and Al alloys. Materials Science and Technology, 2017, 33, 2159-2172.	1.6	10
15	A first-principles study of Mg_2Si phase in magnesium-rare earth binary systems. Computational Materials Science, 2019, 170, 109126.	3.0	8
16	A first-principles study of the formation of Mg_2Si phase in Al-Cu alloys. Philosophical Magazine Letters, 2017, 97, 197-205.	1.2	5