

Dikai Guan

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,512
citations

361045

20
h-index

525886

27
g-index

28
all docs

28
docs citations

28
times ranked

1089
citing authors

#	ARTICLE	IF	CITATIONS
1	Underlying slip/twinning activities of Mg-xGd alloys investigated by modified lattice rotation analysis. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 998-1015.	5.5	24
2	A novel strategy to strengthen the hexagonal close-packed (HCP) alloys. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162346.	2.8	5
3	The evolution of coarse grains and its effects on weakened basal texture during annealing of a cold-rolled magnesium AZ31B alloy. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1235-1241.	5.5	16
4	Influence of tantalum composition on mechanical behavior and deformation mechanisms of TiZrHfTa high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163796.	2.8	12
5	Martensitic twinning transformation mechanism in a metastable IVB element-based body-centered cubic high-entropy alloy with high strength and high work hardening rate. <i>Journal of Materials Science and Technology</i> , 2022, 124, 217-231.	5.6	5
6	Facile route to bulk ultrafine-grain steels for high strength and ductility. <i>Nature</i> , 2021, 590, 262-267.	13.7	98
7	Effect of cryomilling time on microstructure evolution and hardness of cryomilled AZ31 powders. <i>Materials Characterization</i> , 2021, 178, 111311.	1.9	9
8	Tribological behaviour of self-lubricating Mg matrix composites reinforced with silicon carbide and tungsten disulfide. <i>Tribology International</i> , 2020, 146, 106253.	3.0	30
9	In-situ Ti-6Al-4V/TiC composites synthesized by reactive spark plasma sintering: processing, microstructure, and dry sliding wear behaviour. <i>Wear</i> , 2019, 432-433, 202944.	1.5	28
10	Exploring the mechanism of "Rare Earth" texture evolution in a lean Mg-Zn-Ca alloy. <i>Scientific Reports</i> , 2019, 9, 7152.	1.6	65
11	Basal slip mediated tension twin variant selection in magnesium WE43 alloy. <i>Acta Materialia</i> , 2019, 170, 1-14.	3.8	113
12	β phase strengthened 1.2GPa metastable β ² titanium alloy with high ductility. <i>Scripta Materialia</i> , 2019, 162, 77-81.	2.6	70
13	Effect of deformation twinning on crystallographic texture evolution in a Mg-6.6Zn-0.2Ca (ZX70) alloy during recrystallisation. <i>Journal of Alloys and Compounds</i> , 2019, 774, 556-564.	2.8	28
14	Deformation mechanisms in a metastable beta titanium twinning induced plasticity alloy with high yield strength and high strain hardening rate. <i>Acta Materialia</i> , 2018, 152, 301-314.	3.8	188
15	Individual effect of recrystallisation nucleation sites on texture weakening in a magnesium alloy: Part 2- shear bands. <i>Acta Materialia</i> , 2018, 145, 399-412.	3.8	104
16	Segregation mediated heterogeneous structure in a metastable β ² titanium alloy with a superior combination of strength and ductility. <i>Scientific Reports</i> , 2018, 8, 7512.	1.6	23
17	Enhancing ductility and strength of nanostructured Mg alloy by in-situ powder casting during spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2018, 769, 71-77.	2.8	12
18	Direct observation of precipitation along twin boundaries and dissolution in a magnesium alloy annealing at high temperature. <i>Scripta Materialia</i> , 2017, 138, 39-43.	2.6	35

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19	Individual effect of recrystallisation nucleation sites on texture weakening in a magnesium alloy: Part 1- double twins. <i>Acta Materialia</i> , 2017, 135, 14-24.	3.8	145
20	Twin recrystallization mechanisms and exceptional contribution to texture evolution during annealing in a magnesium alloy. <i>Acta Materialia</i> , 2017, 126, 132-144.	3.8	210
21	Thermal Stability of Cryomilled Mg Alloy Powder. <i>Minerals, Metals and Materials Series</i> , 2017, , 225-233.	0.3	0
22	On the use of cryomilling and spark plasma sintering to achieve high strength in a magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2016, 688, 1141-1150.	2.8	33
23	New compositional design for creating tough metallic glass composites with excellent work hardening. <i>Acta Materialia</i> , 2015, 86, 208-215.	3.8	29
24	Effect of pass deformation on microstructure, corrosion and electrochemical properties of aluminum alloy anodes for alkaline aluminum fuel cell applications. <i>Metals and Materials International</i> , 2013, 19, 555-561.	1.8	5
25	Fabrication of nano-structured super-hydrophobic film on aluminum by controllable immersing method. <i>Applied Surface Science</i> , 2012, 258, 5933-5937.	3.1	91
26	Effect of isothermal aging on the microstructure and properties of as-cast Mg-Gd-Y-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1589-1595.	2.6	27
27	Precipitation and its effect on age-hardening behavior of as-cast Mg-Gd-Y alloy. <i>Materials & Design</i> , 2011, 32, 361-364.	5.1	62
28	The relation between heat treatment and corrosion behavior of Mg-Gd-Y-Zr alloy. <i>Materials & Design</i> , 2011, 32, 1194-1199.	5.1	45