

# Kui Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2208208/publications.pdf>

Version: 2024-02-01

28  
papers

440  
citations

840728

11  
h-index

752679

20  
g-index

28  
all docs

28  
docs citations

28  
times ranked

284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure and mechanical properties of hypoeutectic Al-Si composite reinforced with TiCN nanoparticles. <i>Materials and Design</i> , 2016, 95, 545-554.	7.0	58
2	Hot deformation constitutive model and processing maps of homogenized Al-Mg-Zn-Cu alloy. <i>Journal of Materials Research and Technology</i> , 2021, 14, 324-339.	5.8	43
3	Nanoparticle-induced nucleation of eutectic silicon in hypoeutectic Al-Si alloy. <i>Materials Characterization</i> , 2016, 117, 41-46.	4.4	39
4	Review on corrosion resistance of mild steels in liquid aluminum. <i>Journal of Materials Science and Technology</i> , 2021, 71, 12-22.	10.7	38
5	Effect of cooling rate on microstructure and mechanical properties of an Al-5.0Mg-3.0Zn-1.0Cu cast alloy. <i>Journal of Alloys and Compounds</i> , 2019, 801, 596-608.	5.5	34
6	A Novel Method to Achieve Grain Refinement in Aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 4788-4794.	2.2	32
7	Fabrication of in situ AlN-TiN/Al inoculant and its refining efficiency and reinforcing effect on pure aluminum. <i>Journal of Alloys and Compounds</i> , 2013, 547, 5-10.	5.5	21
8	Influence of nanoparticles on microstructural evolution and mechanical properties of Sr-modified Al-10Si alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 666, 264-268.	5.6	17
9	Effect of Cooling Rate on Microstructure and Mechanical Properties of Sand-Casted Al-5.0Mg-0.6Mn-0.25Ce Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1549-1564.	2.9	16
10	Nanoparticle-induced growth behavior of primary $\beta$ -Mg in AZ91 alloys. <i>Materials and Design</i> , 2020, 196, 109146.	7.0	16
11	Development of Al-TiCN nanocomposites via ultrasonic assisted casting route. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104626.	8.2	14
12	Multiscale corrosion-resistance mechanisms of novel ferrous alloys in dynamic aluminum melts. <i>Corrosion Science</i> , 2020, 163, 108276.	6.6	14
13	In-situ synthesis of novel Al-P-O master alloy and its refinement and modification effects on Si phases in hypereutectic Al-30Si alloys. <i>Materials Characterization</i> , 2019, 157, 109900.	4.4	11
14	Effects of Mg content on microstructure and mechanical properties of low Zn-containing Al-xMg-3Zn-1Cu cast alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2022, 32, 721-738.	4.2	11
15	A micro soft robot using inner air transferring for colonoscopy. , 2013, , .		10
16	Effects of Titanium Addition on the Microstructural and Mechanical Property Evolution of FeCrB Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 4610-4622.	2.2	10
17	Experimental and Theoretical Research on the Corrosion Resistance of Ferrous Alloys in Aluminum Melts. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4665-4676.	2.2	9
18	Effects of additive NaI on electrodeposition of Al coatings in AlCl <sub>3</sub> -NaCl-KCl molten salts. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 138-147.	4.4	9

#	ARTICLE	IF	CITATIONS
19	Effects of Solution Treatment on the Microstructure, Tensile Properties, and Impact Toughness of an Al-5.0Mg-3.0Zn-1.0Cu Cast Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 98-110.	2.9	9
20	Synergistic effects of $\text{Al}_2\text{O}_3$ nanoparticles and fast cooling on the microstructural evolution and mechanical properties of Al-20Si alloys. <i>Materials Characterization</i> , 2021, 178, 111240.	4.4	8
21	Electrodeposition of Aluminum Coatings from $\text{AlCl}_3$ -NaCl-KCl Molten Salts with TMACl and NaI Additives. <i>Materials</i> , 2020, 13, 5506.	2.9	5
22	Inchworm-like micro robot for human intestine. , 2012, , .		4
23	Design and control method of surgical robot for vascular intervention operation. , 2016, , .		4
24	Traditional Chinese medicine extracts as novel corrosion inhibitors for AZ91 magnesium alloy in saline environment. <i>Scientific Reports</i> , 2022, 12, 7367.	3.3	3
25	Design and experiment study for MHD microradian angular vibratory sensor. , 2016, , .		2
26	TiCN nanoparticle-induced corrosion inhibition mechanisms of AZ91 alloy. <i>Corrosion Science</i> , 2022, 198, 110109.	6.6	2
27	Heat Treatment-Induced Microstructure and Property Evolution of Mg/Al Intermetallic Compound Coatings Prepared by Al Electrodeposition on Mg Alloy from Molten Salt Electrolytes. <i>Materials</i> , 2021, 14, 1407.	2.9	1
28	Motion fusion of rectilinear and serpentine gait in snake robot. , 2014, , .		0