

Yu-Ying Wu

List of Publications by Year in descending order

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papers

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citations

687363

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36
all docs

36
docs citations

36
times ranked

533
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative comparison of three Ni-containing phases to the elevated-temperature properties of Al-Si piston alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 7132-7137.	5.6	168
2	Morphological evolution of TiC from octahedron to cube induced by elemental nickel. <i>CrystEngComm</i> , 2012, 14, 2213.	2.6	65
3	Supportive strengthening role of Cr-rich phase on Al-Si multicomponent piston alloy at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 4427-4430.	5.6	59
4	Unveiling the Semicoherent Interface with Definite Orientation Relationships between Reinforcements and Matrix in Novel Al ₃ BC/Al Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28194-28201.	8.0	53
5	Effects of grain refinement and boron treatment on electrical conductivity and mechanical properties of AA1070 aluminum. <i>Materials and Design</i> , 2015, 86, 397-403.	7.0	47
6	Study on the improvement of electrical conductivity and mechanical properties of low alloying electrical aluminum alloys. <i>Composites Part B: Engineering</i> , 2017, 110, 381-387.	12.0	47
7	Controlled synthesis of different morphologies of TiB ₂ microcrystals by aluminum melt reaction method. <i>Materials Research Bulletin</i> , 2013, 48, 2044-2048.	5.2	41
8	The improvement of electrical conductivity of hypoeutectic Al-Si alloys achieved by composite melt treatment. <i>Journal of Alloys and Compounds</i> , 2019, 788, 1322-1328.	5.5	21
9	The improvement of boron treatment efficiency and electrical conductivity of AA1070Al achieved by trace Ti assistant. <i>Journal of Alloys and Compounds</i> , 2018, 735, 62-67.	5.5	19
10	Fabrication of hypoeutectic Al-4Si alloy with high electrical conductivity, high plasticity and medium strength by the dual treatment of Al matrix and eutectic Si microstructure. <i>Journal of Alloys and Compounds</i> , 2021, 885, 161117.	5.5	17
11	Fabrication of titanium diboride-carbon core-shell structure particles and their application as high-efficiency grain refiners of wrought aluminum alloys. <i>Scripta Materialia</i> , 2013, 68, 789-792.	5.2	16
12	Synthesis of Boron Nanosheets in Copper Medium. <i>Scientific Reports</i> , 2019, 9, 17337.	3.3	15
13	Growth of single crystalline boron nanotubes in a Cu alloy. <i>CrystEngComm</i> , 2017, 19, 4510-4518.	2.6	14
14	Absorbing formation mechanism of AlP on TiB ₂ substrate and their application as high-efficiency nucleating agent in Al-45Si alloy. <i>Journal of Alloys and Compounds</i> , 2017, 693, 853-858.	5.5	13
15	Eutectic nucleation in Al-25wt.%Si alloy through DSC. <i>Rare Metals</i> , 2010, 29, 62-65.	7.1	12
16	In situ formation of nano-scale Cu-Cu ₂ O composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1544-1547.	5.6	12
17	Growth mechanisms of alpha-boron and beta-boron in a copper melt at ambient pressure and its stabilities. <i>CrystEngComm</i> , 2017, 19, 3947-3954.	2.6	12
18	Evolution and Strengthening Effects of the Heat-Resistant Phases in Al-Si Piston Alloys with Different Fe/Ni Ratios. <i>Materials</i> , 2019, 12, 2506.	2.9	11

#	ARTICLE	IF	CITATIONS
19	In situ formation of superhard Cu-B based composite by reducing reaction. Journal of Alloys and Compounds, 2012, 527, 184-187.	5.5	10
20	Superhard Copper Matrix Composite Reinforced by Ultrafine Boron for Wear-Resistant Bearings. ACS Applied Nano Materials, 2018, 1, 5382-5388.	5.0	10
21	In-situ formation of Al-CaB ₆ composites with low resistivity. Rare Metals, 2012, 31, 578-581.	7.1	9
22	The Effect of Mg Adding Order on the Liquid Structure and Solidified Microstructure of the Al-Si-Mg-P Alloy: An Experiment and ab Initio Study. Metals, 2015, 5, 40-51.	2.3	9
23	The dispersive orientated-precipitation of AlP on alumina film and its effect on the primary Si gathering behavior in the Al-Si alloy surface layer. CrystEngComm, 2014, 16, 5583.	2.6	7
24	A simple method to prepare boron spheres in Cu alloy. Materials Letters, 2017, 205, 24-27.	2.6	6
25	Surface modification of A390 alloy with CaB ₆ composite coating. Journal of Materials Research and Technology, 2020, 9, 1405-1411.	5.8	6
26	Effect of AlB ₂ on the P-threshold in Al-Si alloy. Results in Physics, 2018, 9, 734-739.	4.1	4
27	Evolution of a novel Si-18Mn-16Ti-11P alloy in Al-Si melt and its influence on microstructure and properties of high-Si Al-Si alloy. Results in Physics, 2016, 6, 737-745.	4.1	3
28	The evolution mechanism of boron nanoparticles from sphere into petal-like morphologies in copper melts. Materials Letters, 2017, 189, 240-242.	2.6	3
29	Evolution of amorphous boron transformed into crystal nanospheres under electron beam irradiation. Results in Physics, 2020, 16, 102841.	4.1	3
30	Relationship of Ca, B, and AlP in Al-12.6Si alloy. Rare Metals, 2013, 32, 247-251.	7.1	2
31	Growth mechanisms of fiber-like and dendrite-like boron in a Cu melt. CrystEngComm, 2018, 20, 1970-1977.	2.6	2
32	Effect of Mn on growth mechanism and morphology evolution of CrB ₂ in Al melt. Materials Letters, 2019, 238, 229-232.	2.6	2
33	Influence of the evolution of heat-resistant phases on elevated-temperature strengthening mechanism and deformation behavior in Al-Si multicomponent alloys. Current Applied Physics, 2022, 39, 239-247.	2.4	2
34	Study on spheroidization and the growth mechanism of eutectic boron in Cu-B alloys. CrystEngComm, 2020, 22, 6993-7001.	2.6	1
35	Duplex Nucleation and Its Effect on the Grain Size and Properties of Near Eutectic Al-Si Alloys. Materials, 2022, 15, 2507.	2.9	1
36	A Simple Grinding Method for Preparing Ultra-Thin Boron Nanosheets. Nanomaterials, 2022, 12, 1784.	4.1	0