

Kaibo Nie

List of Publications by Year in descending order

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70
papers

2,599
citations

136740

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197535

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all docs

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docs citations

70
times ranked

1055
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Nd on the microstructure and mechanical properties of Mg ³ Zn-0.5Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 838, 142562.	2.6	8
2	Effect of hot extrusion on the microstructure and mechanical properties of SiCNWs/Mg-2Zn-0.1Y composite. <i>Materials Characterization</i> , 2022, 189, 111970.	1.9	8
3	Different effects of SiC dimensions on the microstructure and mechanical properties of magnesium matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 847, 143273.	2.6	11
4	Magnesium matrix composite reinforced by nanoparticles – A review. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 57-77.	5.5	146
5	Microstructure and Tensile Strength of Nano-TiCp/Mg ² Zn ¹ Ca Magnesium Matrix Nanocomposites Processed by Multidirectional Forging. <i>Metals and Materials International</i> , 2021, 27, 1848-1858.	1.8	7
6	Ultrahigh strength TiCnp/Mg ² Zn-0.8Sr-0.2Ca magnesium matrix composite processed by combining multidirectional forging with extrusion. <i>Composites Communications</i> , 2021, 27, 100847.	3.3	11
7	Fabrication of biodegradable magnesium matrix composite with ultrafine grains and high strength by adding TiC nanoparticles to Mg-1.12Ca-0.84Zn-0.23Mn (at.%) alloy. <i>Materials Science and Engineering C</i> , 2020, 107, 110360.	3.8	13
8	Simultaneous improvements in tensile strength and elongation of a Mg-2Zn-0.8Sr-0.2Ca alloy by a combination of microalloying and low content of TiC nanoparticles. <i>Materials Letters</i> , 2020, 260, 126951.	1.3	8
9	The effect of Zn/Ca ratio on the microstructure, texture and mechanical properties of dilute Mg ² Zn ¹ Ca ¹ Mn alloys that exhibit superior strength. <i>Journal of Materials Science</i> , 2020, 55, 3588-3604.	1.7	22
10	Effect of extrusion temperature on microstructure and mechanical properties of a low-alloying and ultra-high strength Mg ² Zn ¹ Ca ¹ Mn matrix composite containing trace TiC nanoparticles. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 676-691.	5.5	31
11	Effect of extrusion speed on mixed grain microstructure and tensile properties of a Mg-2.9Zn-1.1Ca-0.5Mn nanocomposite reinforced by a low mass fraction of TiCp. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 796, 140223.	2.6	11
12	Improved tensile properties of low-temperature and low-speed extruded Mg ² Zn ¹ Al ⁴ Ca ^{0.6} Mn alloys. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11717-11730.	2.6	14
13	Microstructure and mechanical properties of Mg-4Zn-xGd (x=0, 0.5, 1, 2) alloys. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 441-451.	5.5	53
14	Influence of extrusion parameters on microstructure, texture and mechanical properties of a low Mn and high-Ca containing Mg-2.9Zn-1.1Ca-0.5Mn magnesium alloy. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5264-5277.	2.6	17
15	Hot Deformation Behavior and Processing Maps of SiC Nanoparticles and Second Phase Synergistically Reinforced Magnesium Matrix Composites. <i>Nanomaterials</i> , 2019, 9, 57.	1.9	10
16	Effect of extrusion parameters on microstructure, texture and mechanical properties of Mg-1.38Zn-0.17Y-0.12Ca (at. %) alloy. <i>Materials Characterization</i> , 2019, 151, 137-145.	1.9	42
17	Microstructure and mechanical properties of TiCp/Mg-4Zn-0.5Ca nanocomposite in different processing conditions. <i>Materials Research Express</i> , 2019, 6, 066525.	0.8	5
18	The Comparison in the Microstructure and Mechanical Properties between AZ91 Alloy and Nano-SiCp/AZ91 Composite Processed by Multi-Pass Forging Under Varying Passes and Temperatures. <i>Materials</i> , 2019, 12, 625.	1.3	7

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19	High strength TiCp/Mg-Zn-Ca magnesium matrix nanocomposites with improved formability at low temperature. <i>Journal of Alloys and Compounds</i> , 2019, 792, 267-278.	2.8	23
20	Achieving high-strength magnesium matrix nanocomposite through synergistical effect of external hybrid (SiC+TiC) nanoparticles and dynamic precipitated phase. <i>Journal of Alloys and Compounds</i> , 2019, 771, 847-856.	2.8	38
21	Effects of SiCp Parameters on Microstructures, Interface Structure and Mechanical Property of Mg Bulk Composites Produced by Ultrasonic Vibration Processing. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 1343-1350.	0.7	8
22	Effects of (micron+submicron+nano) multisized SiC particles on microstructure and mechanical properties of magnesium matrix composites. <i>Journal of Composite Materials</i> , 2018, 52, 2055-2064.	1.2	10
23	Development of Mgâ€“Znâ€“Yâ€“Ca alloys containing icosahedral quasicrystal phase through trace addition of Y. <i>Journal of Materials Research</i> , 2018, 33, 2806-2816.	1.2	14
24	Microstructures and biocorrosion properties of biodegradable Mgâ€“Znâ€“Yâ€“Caâ€“Zr alloys. <i>International Journal of Materials Research</i> , 2018, 109, 621-628.	0.1	3
25	Development of SiC Nanoparticles and Second Phases Synergistically Reinforced Mg-Based Composites Processed by Multi-Pass Forging with Varying Temperatures. <i>Materials</i> , 2018, 11, 126.	1.3	6
26	Effect of SiC Nanoparticles on Hot Deformation Behavior and Processing Maps of Magnesium Alloy AZ91. <i>Nanomaterials</i> , 2018, 8, 82.	1.9	12
27	Microstructure, mechanical and bio-corrosion properties of Mgâ€“Znâ€“Zr alloys with minor Ca addition. <i>Materials Science and Technology</i> , 2017, 33, 9-16.	0.8	17
28	High-strength Mg ₉₅ Y ₃ Zn ₁ Ni ₁ alloy with LPSO structure processed by hot rolling. <i>Materials and Manufacturing Processes</i> , 2017, 32, 62-68.	2.7	13
29	The effect of high Al content on the microstructure and mechanical properties of Mg-xAl alloys processed by equal channel angular pressing. <i>International Journal of Materials Research</i> , 2017, 108, 45-52.	0.1	1
30	Characterization and strengthening mechanism of SiC nanoparticles reinforced magnesium matrix composite fabricated by ultrasonic vibration assisted squeeze casting. <i>Journal of Materials Research</i> , 2017, 32, 2609-2620.	1.2	37
31	Influence of SiC nanoparticles addition on the microstructural evolution and mechanical properties of AZ91 alloy during isothermal multidirectional forging. <i>Materials Characterization</i> , 2017, 124, 14-24.	1.9	72
32	Microstructure evolution and enhanced mechanical properties of hot rolled Mgâ€“3Alâ€“Zn alloy with the addition of Al and Si as a eutectic alloy. <i>Journal of Materials Research</i> , 2017, 32, 3564-3573.	1.2	0
33	Microstructure and Tensile Properties of n-SiCp/Mg-9%Al Composites Prepared by Ultrasonic Assisted Hot Pressing of Powder. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 1847-1855.	1.2	4
34	Effects of Li on Microstructures, Mechanical, and Biocorrosion Properties of Biodegradable Mg ₉₄ Zn ₂ Y ₄ Li _x Alloys with Long Period Stacking Ordered Phase. <i>Advanced Engineering Materials</i> , 2017, 19, 1600606.	1.6	19
35	Analysis of hot deformation behavior and microstructure evolution of as-cast SiC nanoparticles reinforced magnesium matrix composite. <i>Journal of Materials Research</i> , 2016, 31, 3437-3447.	1.2	18
36	Hot deformation behaviour of as-extruded micrometre SiCp reinforced AZ91 composite. <i>Materials Research Innovations</i> , 2015, 19, S117-S121.	1.0	2

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37	Microstructure characterization and indentation hardness testing behavior of Mg-8Sn-xAl-1Zn alloys. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 1043-1048.	0.4	2
38	Microstructure and tensile properties of SiC nanoparticles reinforced magnesium matrix composite prepared by multidirectional forging under decreasing temperature conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 465-473.	2.6	23
39	Microstructure Evolution and Mechanical Properties of Long Period Stacking Ordered Mg96Gd3Ni1 Alloy with Al and Sr Additions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2710-2717.	1.1	4
40	Microstructure and mechanical properties of Mg-Al-Ca alloy influenced by SiCp size. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 647, 15-27.	2.6	38
41	Multidirectional forging of AZ91 magnesium alloy and its effects on microstructures and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 624, 157-168.	2.6	68
42	Development of microstructure in submicron particles reinforced magnesium matrix composite processed by room temperature deformation. Materials Chemistry and Physics, 2015, 149-150, 21-26.	2.0	11
43	Microstructures and mechanical properties of SiCp/AZ91 magnesium matrix nanocomposites processed by multidirectional forging. Journal of Alloys and Compounds, 2015, 622, 1018-1026.	2.8	43
44	Effects of Reinforced Particles on Dynamic Recrystallization of Mg Base Alloys during Hot Extrusion. Rare Metal Materials and Engineering, 2014, 43, 1821-1825.	0.8	17
45	Microstructures and mechanical properties of AZ91 magnesium alloy processed by multidirectional forging under decreasing temperature conditions. Journal of Alloys and Compounds, 2014, 617, 979-987.	2.8	53
46	Hot deformation behavior and workability characteristics of bimodal size SiCp/AZ91 magnesium matrix composite with processing map. Materials & Design, 2014, 64, 177-184.	5.1	74
47	Microstructure evolutions of SiCp/AZ91 Mg matrix composites during hot compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 139-146.	2.6	26
48	Effect of hot extrusion on microstructures and mechanical properties of SiC nanoparticles reinforced magnesium matrix composite. Journal of Alloys and Compounds, 2012, 512, 355-360.	2.8	93
49	Effect of extrusion temperatures on microstructure and mechanical properties of SiCp/Mg-Al-Zn-Ca composite. Journal of Alloys and Compounds, 2012, 532, 78-85.	2.8	45
50	Microstructure and strengthening mechanism of bimodal size particle reinforced magnesium matrix composite. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1280-1284.	3.8	216
51	Hot extrusion of SiCp/AZ91 Mg matrix composites. Transactions of Nonferrous Metals Society of China, 2012, 22, 1912-1917.	1.7	39
52	Influence of extrusion temperature and process parameter on microstructures and tensile properties of a particulate reinforced magnesium matrix nanocomposite. Materials & Design, 2012, 36, 199-205.	5.1	43
53	Microstructure and mechanical properties of SiCp/MgZnCa composites fabricated by stir casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 60-67.	2.6	36
54	Development of SiCp/AZ91 magnesium matrix nanocomposites using ultrasonic vibration. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 540, 123-129.	2.6	95

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55	Dynamic recrystallization behavior of particle reinforced Mg matrix composites fabricated by stir casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 545, 38-43.	2.6	63
56	Fabrication of SiC particles-reinforced magnesium matrix composite by ultrasonic vibration. <i>Journal of Materials Science</i> , 2012, 47, 138-144.	1.7	28
57	Processing, microstructure and mechanical properties of magnesium matrix nanocomposites fabricated by semisolid stirring assisted ultrasonic vibration. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8664-8669.	2.8	106
58	Microstructure and tensile properties of micro-SiC particles reinforced magnesium matrix composites produced by semisolid stirring assisted ultrasonic vibration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 8709-8714.	2.6	70
59	Isothermal forging of AZ91 reinforced with 10vol.% silicon carbon particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1707-1712.	2.6	50
60	Microstructure and mechanical properties of SiC nanoparticles reinforced magnesium matrix composites fabricated by ultrasonic vibration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5278-5282.	2.6	122
61	Influences of extrusion parameters on microstructure and mechanical properties of particulate reinforced magnesium matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6387-6392.	2.6	51
62	Effect of multidirectional forging on microstructures and tensile properties of a particulate reinforced magnesium matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7133-7139.	2.6	35
63	Effect of ultrasonic vibration and solution heat treatment on microstructures and tensile properties of AZ91 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7484-7487.	2.6	33
64	Multidirectional forging of magnesium matrix composites: Effect on microstructures and tensile properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 7364-7368.	2.6	38
65	Damping capacities and tensile properties in Grp/AZ91 and SiCp/Grp/AZ91 magnesium matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 7873-7877.	2.6	18
66	Microstructure and mechanical properties of SiCp/AZ91 composite deformed through a combination of forging and extrusion process. <i>Materials & Design</i> , 2010, 31, 3929-3932.	5.1	68
67	Damping capacities and microstructures of magnesium matrix composites reinforced by graphite particles. <i>Materials & Design</i> , 2010, 31, 4862-4865.	5.1	37
68	Damping capacities and tensile properties of magnesium matrix composites reinforced by graphite particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 6816-6821.	2.6	42
69	Effect of submicron size SiC particulates on microstructure and mechanical properties of AZ91 magnesium matrix composites. <i>Journal of Alloys and Compounds</i> , 2010, 504, 542-547.	2.8	156
70	Effect of extrusion temperature on microstructures and damping capacities of Grp/AZ91 composite. <i>Journal of Alloys and Compounds</i> , 2010, 506, 688-692.	2.8	35