

Longtao Jiang

List of Publications by Year in descending order

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48
papers

1,303
citations

331259

21
h-index

377514

34
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all docs

48
docs citations

48
times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	The thermal expansion and mechanical properties of high reinforcement content SiCp/Al composites fabricated by squeeze casting technology. <i>Composites Part A: Applied Science and Manufacturing</i> , 2003, 34, 1023-1027.	3.8	86
2	The design of a novel neutron shielding B4C/Al composite containing Gd. <i>Materials and Design</i> , 2016, 111, 375-381.	3.3	86
3	Thermal expansion and dimensional stability of Al-Si matrix composite reinforced with high content SiC. <i>Materials Chemistry and Physics</i> , 2003, 82, 780-785.	2.0	76
4	Friction and wear properties of TiB2P/Al composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 1916-1921.	3.8	65
5	Dry sliding friction and wear behavior of (TiB2+h-BN)/2024Al composites. <i>Materials and Design</i> , 2015, 87, 960-968.	3.3	57
6	The microstructure and ballistic performance of B4C/AA2024 functionally graded composites with wide range B4C volume fraction. <i>Composites Part B: Engineering</i> , 2019, 161, 627-638.	5.9	56
7	Microstructure and Mechanical Properties of 45 vol.% SiCp/7075Al Composite. <i>Journal of Materials Science and Technology</i> , 2015, 31, 930-934.	5.6	53
8	Aging behavior of 6061Al matrix composite reinforced with high content SiC nanowires. <i>Journal of Alloys and Compounds</i> , 2015, 649, 1037-1042.	2.8	53
9	Effect of surface roughness on tribological properties of TiB2/Al composites. <i>Materials & Design</i> , 2014, 53, 129-136.	5.1	45
10	The microstructure and influence of hot extrusion on tensile properties of (Gd+B4C)/Al composite. <i>Journal of Alloys and Compounds</i> , 2017, 729, 1234-1243.	2.8	40
11	The design of novel neutron shielding (Gd+B4C)/6061Al composites and its properties after hot rolling. <i>Composites Part B: Engineering</i> , 2019, 168, 183-194.	5.9	40
12	Design, microstructure and high temperature properties of in-situ Al3Ti and nano-Al2O3 reinforced 2024Al matrix composites from Al-TiO2 system. <i>Journal of Alloys and Compounds</i> , 2019, 775, 290-297.	2.8	40
13	Enhanced thermal conductivity and flexural properties in squeeze casted diamond/aluminum composites by processing control. <i>Materials and Design</i> , 2015, 88, 1347-1352.	3.3	38
14	A Mechanically Interlocking Strategy Based on Conductive Microbridges for Stretchable Electronics. <i>Advanced Materials</i> , 2022, 34, e2101339.	11.1	35
15	Optimisation of the spark plasma sintering process for high volume fraction SiCp/Al composites by orthogonal experimental design. <i>Ceramics International</i> , 2021, 47, 3816-3825.	2.3	33
16	A nanostructural design to produce high ductility of high volume fraction SiCp/Al composites with enhanced strength. <i>Materials & Design</i> , 2014, 61, 141-145.	5.1	32
17	Interfacial characteristics of diamond/aluminum composites with high thermal conductivity fabricated by squeeze-casting method. <i>Materials Characterization</i> , 2015, 106, 346-351.	1.9	32
18	Analysis of morphology and microstructure of B4C/2024Al composites after 7.62mm ballistic impact. <i>Materials & Design</i> , 2014, 63, 658-663.	5.1	27

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19	Effects of thermal cycling on mechanical properties of AlNp/Al composite. <i>Materials Letters</i> , 2004, 58, 1899-1902.	1.3	26
20	Properties of high reinforcement-content aluminum matrix composite for electronic packages. <i>Journal of Materials Science: Materials in Electronics</i> , 2003, 14, 9-12.	1.1	25
21	Effects of pulse conditions on microstructure and mechanical properties of Si ₃ N ₄ /6061Al composites prepared by spark plasma sintering (SPS). <i>Journal of Alloys and Compounds</i> , 2018, 763, 822-834.	2.8	24
22	Microstructure and Magnetic Properties of Soft Magnetic Composites with Silicate Glass Insulation Layers. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 239-245.	0.8	23
23	Ballistic behavior and microstructure evolution of B ₄ C/AA2024 composites. <i>Ceramics International</i> , 2019, 45, 20539-20544.	2.3	21
24	Quantitative study of dimensional stability mechanism and microstructure evolution during precipitation process of 2024Al alloy. <i>Journal of Materials Science and Technology</i> , 2021, 90, 85-94.	5.6	21
25	Stable second phase: The key to high-temperature creep performance of particle reinforced aluminum matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 770, 138551.	2.6	20
26	Revealing the dimensional stability mechanisms of SiC/Al composite under long-term thermal cycling. <i>Ceramics International</i> , 2022, 48, 13927-13937.	2.3	19
27	Microstructure and thermal conduction properties of an Al-12Si matrix composite reinforced with dual sized SiC particles. <i>Journal of Materials Science</i> , 2004, 39, 303-305.	1.7	18
28	Microstructure and thermo-physical properties of a SiC/pure-Al composite for electronic packaging. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 604-608.	1.1	18
29	The tribological behavior evolution of TiB ₂ /Al composites from running-in stage to steady stage. <i>Wear</i> , 2016, 368-369, 304-313.	1.5	18
30	Micro-creep behavior and microstructure evolution of SiCp/2024Al composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138606.	2.6	16
31	Higher proportional limit of SiC/Al composites with nano-scaled stacking faults. <i>Composites Communications</i> , 2022, 32, 101188.	3.3	16
32	The formation, evolution and influence of Gd-Containing phases in the (Gd+B ₄ C)/6061Al composites during hot rolling. <i>Journal of Alloys and Compounds</i> , 2019, 775, 714-725.	2.8	13
33	Microstructure and mechanical behavior of sub-micro particulate-reinforced Al matrix composites. <i>Journal of Materials Science Letters</i> , 2002, 21, 609-611.	0.5	12
34	Characterization and corrosion protection properties of cerium conversion coating on Gr(f)/Al composite surface. <i>Journal of Materials Science</i> , 2008, 43, 3327-3332.	1.7	12
35	Effect of TM (TM=Fe, Mn, Cr) alloying on the high temperature properties and strengthening mechanism of Cf/Al composites. <i>Composites Part B: Engineering</i> , 2021, 211, 108622.	5.9	11
36	Microstructure and mechanical properties of B ₄ C/2024Al functionally gradient composites. <i>Materials and Design</i> , 2022, 215, 110449.	3.3	11

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37	Microstructure and properties of Si _p /Al-20wt% Si composite prepared by hot-pressed sintering technology. <i>Journal of Materials Science</i> , 2014, 49, 1368-1375.	1.7	10
38	Quantitative analysis of the effects of particle content and aging temperature on aging behavior in B ₄ C/6061Al composites. <i>Materials Characterization</i> , 2020, 163, 110305.	1.9	10
39	Design and Fabrication of a Nanoamorphous Interface Layer in B ₄ C/Al Composites to Improve Hot Deformability and Corrosion Resistance. <i>ACS Applied Nano Materials</i> , 2020, 3, 5752-5761.	2.4	10
40	A modified Johnson-Cook model with damage degradation for B ₄ Cp/Al composites. <i>Composite Structures</i> , 2022, 282, 115029.	3.1	10
41	Characterization of multi-scale porous structure of fly ash/phosphate geopolymer hollow sphere structures: From submillimeter to nano-scale. <i>Micron</i> , 2015, 68, 54-58.	1.1	9
42	Characterization of the reaction products and precipitates at the interface of carbon fiber reinforced magnesium-gadolinium composite. <i>Materials Characterization</i> , 2016, 113, 232-238.	1.9	9
43	Thermal properties of a high volume fraction SiC particle-reinforced pure aluminum composite. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 1033-1040.	0.8	8
44	Reaction procedure of a graphite fiber reinforced Ti-Al composite produced by squeeze casting-in situ reaction. <i>Rare Metals</i> , 2010, 29, 98-101.	3.6	6
45	Effect of long-period-stacking-ordered phases on the microstructure and mechanical properties of carbon fiber reinforced magnesium-gadolinium-zinc composite. <i>Journal of Alloys and Compounds</i> , 2017, 708, 728-733.	2.8	6
46	The deformation of B ₄ C particle in the B ₄ C/2024Al composites after high velocity impact. <i>Micron</i> , 2014, 67, 107-111.	1.1	4
47	Mechanical behavior of Y ₂ O ₃ -coated Al ₂ O ₃ p/6061 Al composites. <i>Journal of Materials Science Letters</i> , 2003, 22, 149-151.	0.5	2
48	Effect of thermal exposure on the microstructure of the interface in a Gr _f /Al composite. <i>Science and Engineering of Composite Materials</i> , 2016, 23, 751-757.	0.6	1