

# Tijun Chen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47  
papers

338  
citations

11  
h-index

15  
g-index

49  
ext. papers

451  
ext. citations

3  
avg, IF

4  
L-index

#	Paper	IF	Citations
47	Mixing process and nucleation of an Al-Si alloy during controlled diffusion solidification with simultaneous mixing and effect of mixing rate. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 3018-3040	4.3	1
46	Achieving a heterogeneous lamella-structured aluminum alloy with excellent synergy of strength and ductility by powder thixoforming. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 838, 142781	5.3	0
45	Fabrication of graphene nanoplatelets reinforced Mg matrix composites via powder thixoforging. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	1
44	Overcoming the strength-ductility trade-off of an aluminum matrix composite by novel core-shell structured reinforcing particulates. <i>Composites Part B: Engineering</i> , <b>2021</b> , 206, 108541	10	21
43	Bimodal microstructure dispersed with nanosized precipitates makes strong aluminum alloy with large ductility. <i>Materials and Design</i> , <b>2020</b> , 191, 108695	8.1	5
42	Microstructure-based numerical simulation of the mechanical properties and fracture of a Ti-Al <sub>3</sub> Ti core-shell structured particulate reinforced A356 composite. <i>Materials and Design</i> , <b>2020</b> , 191, 108685	8.1	12
41	Mixing of graphene nanoplatelets with magnesium alloy powders by electrostatic adsorption. <i>Materials Research Express</i> , <b>2020</b> , 7, 036524	1.7	
40	Effect of Drawing Pass on Softening or Plasticizing of Q235 Steel Bar during Electrochemical Cold Drawing. <i>Metals</i> , <b>2020</b> , 10, 715	2.3	
39	High temperature tribological behaviors and wear mechanisms of NiAl-MoO <sub>3</sub> /CuO composite coatings. <i>Surface and Coatings Technology</i> , <b>2020</b> , 395, 125910	4.4	9
38	Effects of Previous Electrochemical and Chemical Corrosions on Surface Layer Softening During Electrochemical Cold Drawing of Q235 Bar. <i>Metals and Materials International</i> , <b>2020</b> , 1	2.4	0
37	Study of Ultrasonic Dispersion of Graphene Nanoplatelets. <i>Materials</i> , <b>2019</b> , 12,	3.5	15
36	Mechanical Properties of Thixoforged In Situ Mg <sub>2</sub> SiP/AM60B Composite at Elevated Temperatures. <i>Metals</i> , <b>2018</b> , 8, 106	2.3	2
35	Effects of Alloying Elements on the Formation of Core-Shell-Structured Reinforcing Particles during Heating of Al-Ti Powder Compacts. <i>Materials</i> , <b>2018</b> , 11,	3.5	6
34	Toughening mechanisms of solution-treated SiCp/6061 aluminum matrix composites fabricated via powder thixoforming. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 2728-2740	2.5	3
33	Effects of reheating duration on the microstructure and tensile properties of in situ core-shell-structured particle-reinforced A356 composites fabricated via powder thixoforming. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 2576-2593	4.3	19
32	Effects of Mold Temperature on the Microstructure and Tensile Properties of Ti@(Al-Si-Ti)p/A356 Composite Prepared via Powder Thixoforming. <i>Metals</i> , <b>2018</b> , 8, 829	2.3	1
31	Solution Treatment Behaviors of 6061 Aluminum Alloy Prepared by Powder Thixoforming. <i>Materials Research</i> , <b>2018</b> , 21,	1.5	5

30	Core-Shell-Structured Particle Reinforced A356 Matrix Composite Prepared by Powder-Thixoforming: Effect of Reheating Temperature. <i>Materials</i> , <b>2018</b> , 11,	3.5	6
29	The microstructure and mechanical properties of Al2024-SiCp composite fabricated by powder thixoforming. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 2079-2091	2.5	4
28	Effects of pressure on microstructure and mechanical properties of SiCp/2024 Al-based composites fabricated by powder thixoforming. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 2045-2059	4.3	10
27	Effect of Remelting Duration on Microstructure and Properties of SiCp/Al Composite Fabricated by Powder-Thixoforming for Electronic Packaging. <i>Metals</i> , <b>2016</b> , 6, 311	2.3	5
26	Effect of reheating temperature on the microstructure and tensile properties of SiCP/2024Al composite prepared by powder thixoforming. <i>Powder Metallurgy</i> , <b>2016</b> , 59, 288-300	1.9	7
25	Semisolid Microstructural Evolution during Partial Remelting of a Bulk Alloy Prepared by Cold Pressing of the Ti-Al-2024Al Powder Mixture. <i>Materials</i> , <b>2016</b> , 9, 199	3.5	9
24	A Comparative Study on Permanent Mold Cast and Powder Thixoforming 6061 Aluminum Alloy and Sic/6061Al Composite: Microstructures and Mechanical Properties. <i>Materials</i> , <b>2016</b> , 9,	3.5	4
23	Effect of SiCp volume fraction on the microstructure and tensile properties of SiCp/2024 Al-based composites prepared by powder thixoforming. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 2850-2862	2.5	7
22	Microstructure and tensile properties of in situ Mg2Sip/AM60B composite prepared by thixoforging technology. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 783-796	2.5	2
21	Effects of casting parameters on microstructure and dendrite morphology of ZA27 zinc based alloy. <i>International Journal of Cast Metals Research</i> , <b>2015</b> , 28, 140-150	1	
20	A Comparative Characterization of the Microstructures and Tensile Properties of As-Cast and Thixoforged in situ AM60B-10 vol% Mg2Sip Composite and Thixoforged AM60B. <i>Metals</i> , <b>2015</b> , 5, 457-470	3	15
19	Research on Semisolid Microstructural Evolution of 2024 Aluminum Alloy Prepared by Powder Thixoforming. <i>Metals</i> , <b>2015</b> , 5, 547-564	2.3	26
18	Effects of Reheating Duration on the Microstructures and Tensile Properties of Thixoforged In Situ Mg2Sip/AM60B Composites. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2014</b> , 27, 957-967	2.5	12
17	Microstructure and dendrite morphology of Sip/ZA27 composite. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 1783-1794	1.5	2
16	Effects of reheating temperature and time on microstructure and tensile properties of thixoforged AZ63 magnesium alloy. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 96-108	1.5	20
15	Microstructural evolution of grain refined in situ Sip/ZA27 composite during partial remelting. <i>Materials Science and Technology</i> , <b>2011</b> , 27, 1183-1190	1.5	3
14	Semisolid microstructure of AM60B magnesium alloy refined by SiC particles. <i>International Journal of Materials Research</i> , <b>2011</b> , 102, 1459-1467	0.5	11
13	Microstructural evolution during partial remelting of in situ Sip/ZA27 composite with developed dendrites. <i>International Journal of Cast Metals Research</i> , <b>2011</b> , 24, 299-306	1	4

12	Microstructural evolution of equal channel angular pressed AZ91D magnesium alloy during partial remelting. <i>Materials Science and Technology</i> , <b>2010</b> , 26, 1197-1206	1.5	12
11	SOME KEY ISSUES AND ACCESSES TO THE APPLICATION OF MAGNESIUM ALLOYS. <i>International Journal of Modern Physics B</i> , <b>2010</b> , 24, 2237-2242	1.1	5
10	Microstructures and corrosion properties of casting in situ Al <sub>3</sub> Ti-Al composites. <i>Rare Metals</i> , <b>2010</b> , 29, 78-85	5.5	11
9	Friction stir processing of thixoformed AZ91D magnesium alloy and fabrication of surface composite reinforced by SiCps. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2010</b> , 25, 223-227	1	9
8	Grain refinement of AM60B magnesium alloy by SiC particles. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 6732-6738	4.9	15
7	In situ silicon particle reinforced ZA27 composites: Part 1 [Microstructures and tensile properties. <i>Materials Science and Technology</i> , <b>2008</b> , 24, 1321-1332	1.5	19
6	Friction and wear properties of permanent mould cast AZ91D magnesium alloy. <i>Materials Science and Technology</i> , <b>2007</b> , 23, 937-944	1.5	6
5	EFFECTS OF PROCESSING PARAMETERS ON THIXOFORMABILITY AND DEFECTS OF AZ91D. <i>International Journal of Modern Physics B</i> , <b>2006</b> , 20, 3680-3685	1.1	3
4	A New Method for Production of Nondendritic Semisolid ZA27 Alloy. <i>Materials and Manufacturing Processes</i> , <b>2006</b> , 21, 467-471	4.1	
3	Die-filling process during the thixoforming of a ZA27 alloy cylindrical rod. <i>Metals and Materials International</i> , <b>2005</b> , 11, 513-520	2.4	2
2	Microstructural evolution of predeformed SiC p /ZA27 composites during partial remelting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2004</b> , 35, 2073-2085	2.3	9
1	Simultaneously enhancing the strength and ductility of particulate-reinforced aluminum matrix composite by aging treatment. <i>Journal of Materials Research</i> , 1	2.5	0