

# Aimin Zhao

## List of Publications by Year in descending order

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28  
papers

529  
citations

623734

14  
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677142

22  
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28  
docs citations

28  
times ranked

408  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel design to enhance the amount of retained austenite and mechanical properties in low-alloyed steel. <i>Scripta Materialia</i> , 2014, 88, 21-24.	5.2	83
2	Acceleration of nanobainite transformation by multi-step ausforming process. <i>Scripta Materialia</i> , 2015, 107, 71-74.	5.2	60
3	Flow behavior and processing maps of Ti-44.5Al-3.8Nb-1.0Mo-0.3Si-0.1B alloy. <i>Journal of Alloys and Compounds</i> , 2017, 698, 786-793.	5.5	48
4	Oxidation of conventional and nanostructured 8wt.% yttria-stabilized zirconia coating surface coatings on $\hat{\text{T}}^3\text{-TiAl}$ . <i>Applied Surface Science</i> , 2015, 332, 362-367.	6.1	25
5	Cyclic Oxidation Behavior of the Ti-6Al-4V Alloy. <i>Oxidation of Metals</i> , 2014, 81, 467-476.	2.1	24
6	Development of $\hat{\text{T}}^2$ -solidifying $\hat{\text{T}}^3\text{-TiAl}$ alloys sheet. <i>Materials Letters</i> , 2017, 198, 31-33.	2.6	23
7	Influence of Prior Martensite on Bainite Transformation, Microstructures, and Mechanical Properties in Ultra-Fine Bainitic Steel. <i>Materials</i> , 2019, 12, 527.	2.9	22
8	Effects of ausforming temperature on bainite transformation kinetics, microstructures and mechanical properties in ultra-fine bainitic steel. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1593-1605.	5.8	22
9	Effect of intercritical temperature on quenching and partitioning steels originated from martensitic pre-microstructure. <i>Journal of Materials Research</i> , 2014, 29, 2525-2533.	2.6	20
10	Two-body abrasion wear mechanism of super bainitic steel. <i>Materials Science and Technology</i> , 2017, 33, 893-898.	1.6	19
11	Acceleration of Bainite Transformation at Low Temperature by Warm Rolling Process. <i>Materials Today: Proceedings</i> , 2015, 2, S289-S294.	1.8	17
12	Effect of Welding Peak Temperature on Microstructure and Impact Toughness of Heat-Affected Zone of Q690 High Strength Bridge Steel. <i>Materials</i> , 2021, 14, 2981.	2.9	17
13	A New Type of Quenching and Partitioning Processing Developed from Martensitic Pre-microstructure. <i>Materials and Manufacturing Processes</i> , 2014, 29, 704-709.	4.7	16
14	Effect of Heat Treatment on Microstructure and Mechanical Properties of Quenching and Partitioning Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 216-224.	2.9	16
15	Quenching and partitioning steel produced through hot rolling, direct quenching and annealing. <i>Materials Science and Technology</i> , 2016, 32, 1605-1612.	1.6	14
16	Effect of microstructure morphology on mechanical properties of quenching and partitioning steel. <i>Materials Science and Technology</i> , 2018, 34, 347-354.	1.6	13
17	Effect of Upper Bainite on Wear Behaviour of High-Speed Wheel Steel. <i>Tribology Letters</i> , 2019, 67, 1.	2.6	13
18	Deformation-induced dissolution of copper precipitation in 1.5wt%Cu-bearing antibacterial Fe-17wt%Cr alloy during plastic deformation process. <i>Materials and Design</i> , 2018, 157, 469-477.	7.0	12

#	ARTICLE	IF	CITATIONS
19	Effect of Nb on Microstructure and Mechanical Properties in Non-magnetic High Manganese Steel. Journal of Iron and Steel Research International, 2014, 21, 600-605.	2.8	11
20	A High-Strength High-Ductility Ti- and Mo-Bearing Ferritic Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 450-460.	2.2	11
21	Effect of rare earth elements on the segregation behavior and microstructure of super austenitic stainless steel. Journal of Materials Research and Technology, 2022, 19, 20-29.	5.8	11
22	Effect of strain rate on the work-hardening rate in high-Mn steel. Materials Science and Technology, 2017, 33, 1306-1311.	1.6	7
23	Effect of Continuous Annealing Temperature on Microstructure and Properties of Ultra-Purified Ferritic Stainless Steel. Steel Research International, 2017, 88, 1600347.	1.8	7
24	A study of blocky retained austenite and properties under variously heat-treated ultra-fine bainitic steel. Materials Research Express, 2019, 6, 105607.	1.6	5
25	A study of wear resistance of carbon-free bainite and martensite in medium carbon steel. Ironmaking and Steelmaking, 2020, 47, 1056-1062.	2.1	5
26	Study of work-hardening behavior of high manganese steel during compression. Materials Research Express, 2022, 9, 066503.	1.6	4
27	Ultrafine-Grained Multiphase Steels with Different Microstructural Constitutions Fabricated Through Annealing of Tempered and Deformed Martensite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 1439-1443.	2.2	3
28	Texture evolution of 440 MPa grade Nb-bearing high strength IF steel during rolling and annealing process. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 1157-1161.	1.0	1