Huang Shiquan

List of Publications by Year
in descending order

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33	839	471509	501196
papers	citations	17 h-index	28 g-index

33	33	33	385
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic recrystallization mechanisms of 2195 aluminum alloy during medium/high temperature compression deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140650.	5.6	95
2	An improved process for grain refinement of large 2219 Al alloy rings and its influence on mechanical properties. Journal of Materials Science and Technology, 2019, 35, 55-63.	10.7	63
3	Hot deformation characteristics and processing parameter optimization of 2219 Al alloy using constitutive equation and processing map. Vacuum, 2019, 160, 293-302.	3.5	62
4	Influence of pre-deformation and subsequent ageing on the hardening behavior and microstructure of 2219 aluminum alloy forgings. Journal of Alloys and Compounds, 2016, 685, 941-948.	5.5	60
5	Kinetic model for describing continuous and discontinuous dynamic recrystallization behaviors of 2195 aluminum alloy during hot deformation. Materials Characterization, 2021, 181, 111492.	4.4	58
6	Effects of cold predeformation on dissolution of second-phase Al2Cu particles during solution treatment of 2219 Al-Cu alloy forgings. Materials Characterization, 2018, 135, 18-24.	4.4	57
7	Influence of cryogenic deformation on second-phase particles, grain structure, and mechanical properties of Alâ€“Cuâ€“Mn alloy. Journal of Alloys and Compounds, 2020, 827, 154300.	5.5	50
8	Investigation of quench sensitivity of high strength 2219 aluminum alloy by TTP and TTT diagrams. Journal of Alloys and Compounds, 2017, 690, 446-452.	5.5	46
9	Influence of quenching cooling rate on residual stress and tensile properties of 2A14 aluminum alloy forgings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 658-665.	5.6	45
10	Simulation and experimental research on isothermal forging with semi-closed die and multi-stage-change speed of large AZ80 magnesium alloy support beam. Journal of Materials Processing Technology, 2017, 246, 198-204.	6.3	41
11	Effects of thermomechanical treatment on grain refinement, second-phase particle dissolution, and mechanical properties of 2219 Al alloy. Journal of Materials Processing Technology, 2020, 278, 116506.	6.3	31
12	Flow behaviors and deformation mechanism of WQ-tempered Alâ€“Li alloy at cryogenic temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 809, 140971.	5.6	25
13	Microstructure Evolution and Mechanical Properties of 2219 Al Alloy During Aging Treatment. Journal of Materials Engineering and Performance, 2017, 26, 1475-1482.	2.5	23
14	Effect of increased stretching deformation at cryogenic temperature on the precipitation behavior and mechanical properties of 2060 Alâ€“Li alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 834, 142585.	5.6	21
15	Experimental and Theoretical Investigation on the Forming Limit of 2024-O Aluminum Alloy Sheet at Cryogenic Temperatures. Metals and Materials International, 2021, 27, 5199-5211.	3.4	20
16	Influence of Temperature-Dependent Properties of Aluminum Alloy on Evolution of Plastic Strain and Residual Stress during Quenching Process. Metals, 2017, 7, 228.	2.3	19
17	Effects of Warm Rolling Deformation on the Microstructure and Ductility of Large 2219 Alâ€“Cu Alloy Rings. Metals and Materials International, 2020, 26, 56-68.	3.4	19
18	Effects of deformation temperature on second-phase particles and mechanical properties of multidirectionally-forged 2A14 aluminum alloy. Journal of Alloys and Compounds, 2021, 871, 159459.	5.5	18

#	Article	IF	Citations
19	Manufacturing large 2219 Alâ€“Cu alloy rings by a cold rolling process. Materials and Manufacturing Processes, 2020, 35, 291-302.	4.7	15
20	Effects of Cryogenic Deformation on Second-Phase Al2Cu Particles and Mechanical Properties of 2219 Alâ€“Cu Alloy Rings. Metals and Materials International, 2021, 27, 815-824.	3.4	14
21	Effects of different multidirectional forging processes on the microstructure and three-dimensional mechanical properties of ultra-high strength aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141932.	5.6	10
22	Analysis of isothermal forging process and mechanical properties of complex aluminum forging for aviation. Journal of Central South University, 2014, 21, 2612-2616.	3.0	9
23	Grain Refinement and Thermal Stability of 2219 Aluminum Alloy in the Warm Deformation Process. Metals and Materials International, 2020, , 1.	3.4	6
24	Hot Deformation Characteristics and Processing Map Analysis of Pre-Forged AZ80 Magnesium Alloy. Metals and Materials International, 2021, 27, 1252-1262.	3.4	6
25	Investigation of Quench Sensitivity and Microstructure Evolution During Isothermal Treatment in 2195 Alâ€“Li Alloy. Metals and Materials International, 2022, 28, 1423-1432.	3.4	5
26	Influence of Forging Temperature on the Microstructures and Mechanical Properties of a Multi-Directionally Forged Alâ€“Cuâ€“Li Alloy. Metals and Materials International, 2022, 28, 433-447.	3.4	5
27	Bulging limit of AZ31B magnesium alloy tubes in hydroforming with internal and external pressure. International Journal of Advanced Manufacturing Technology, 2019, 101, 2509-2517.	3.0	4
28	Reduction of Residual Quenching Stresses in 2A14 Aluminum Alloy Tapered Cylinder Forgings via a Novel Cold Bulging Process. Metals, 2021, 11, 717.	2.3	4
29	Experimental Study and Microstructure Analysis of Aviation Component by Isothermal Forging Process. Materials and Manufacturing Processes, 2015, 30, 79-84.	4.7	3
30	Manufacturing large 2A14 aluminium alloy cylinders by a warm rolling technology. Materials Science and Technology, 2020, 36, 1534-1546.	1.6	3
31	Simulation of dynamic recrystallization in 23Co13Ni11Cr3Mo steel using a modified cellular automaton. Journal of Central South University, 2014, 21, 454-459.	3.0	1
32	Measuring internal residual stress in Al-Cu alloy forgings by crack compliance method with optimized parameters. Journal of Central South University, 2020, 27, 3163-3174.	3.0	1
33	A novel method of multi-scale simulation of macro-scale deformation and microstructure evolution on metal forming. , 2011, , .		0