

Zhenhua Wang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

361
citations

932766
10
h-index

794141
19
g-index

26
all docs

26
docs citations

26
times ranked

249
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Cavitation erosion mechanism and microstructural design of pure titanium. <i>Wear</i> , 2022, 490-491, 204189. | 1.5 | 1 |
| 2 | Hydrogen participates in cavitation erosion in water. <i>Wear</i> , 2022, 504-505, 204435. | 1.5 | 1 |
| 3 | Cavitation erosion behavior of high-nitrogen austenitic stainless steel: Effect and design of grain-boundary characteristics. <i>Materials and Design</i> , 2021, 201, 109496. | 3.3 | 10 |
| 4 | In-situ study on cavitation erosion behavior of super ferritic stainless steel. <i>Wear</i> , 2021, 482-483, 203986. | 1.5 | 4 |
| 5 | Enhancing yield strength of high nitrogen austenitic stainless steel. <i>Journal of Constructional Steel Research</i> , 2021, 187, 106927. | 1.7 | 7 |
| 6 | Formation mechanism and application potential of $\Sigma 1$ boundary in grain boundary engineering of high nitrogen austenitic stainless steel. <i>Materials Letters</i> , 2019, 253, 377-380. | 1.3 | 5 |
| 7 | Effect of Strain Rate on Hot Ductility of a Duplex Stainless Steel. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-6. | 1.0 | 4 |
| 8 | Hot-Deformation Behavior of High-Nitrogen Austenitic Stainless Steel under Continuous Cooling: Physical Simulation of Surface Microstructure Evolution of Superheavy Forgings during Hot Forging. <i>Materials</i> , 2019, 12, 1175. | 1.3 | 4 |
| 9 | Effect of Silicon Content on the Hardenability and Mechanical Properties of Link-Chain Steel. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 1678-1684. | 1.2 | 6 |
| 10 | Fracture Behavior of High-Nitrogen Austenitic Stainless Steel Under Continuous Cooling: Physical Simulation of Free-Surface Cracking of Heavy Forgings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 1470-1474. | 1.1 | 4 |
| 11 | Microstructure Evolution and Surface Cracking Behavior of Superheavy Forgings during Hot Forging. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-9. | 1.0 | 3 |
| 12 | Grain Size Effect on the Hot Ductility of High-Nitrogen Austenitic Stainless Steel in the Presence of Precipitates. <i>Materials</i> , 2018, 11, 1026. | 1.3 | 6 |
| 13 | Effects of initial grain size and strain on grain boundary engineering of high-nitrogen CrMn austenitic stainless steel. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018, 25, 922-929. | 2.4 | 4 |
| 14 | Dependence of corrosion resistance on grain boundary characteristics in a high nitrogen CrMn austenitic stainless steel. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1621-1628. | 5.6 | 49 |
| 15 | Effect of Strain Rate on Hot Ductility Behavior of a High Nitrogen Cr-Mn Austenitic Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 1268-1279. | 1.1 | 13 |
| 16 | A new insight into manufacturing fine-grained heavy retaining rings. <i>Materials and Design</i> , 2016, 103, 152-159. | 3.3 | 14 |
| 17 | Importance and role of grain size in free surface cracking prediction of heavy forgings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 625, 321-330. | 2.6 | 27 |
| 18 | Hot Ductility Behavior of an 8% Cr Roller Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1767-1775. | 1.1 | 4 |

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|----|---|-----|-----------|
| 19 | Effect of Grain Size on Dynamic Recrystallization and Hot-Ductility Behaviors in High-Nitrogen CrMn Austenitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 3631-3639. | 1.1 | 25 |
| 20 | Effects of mischmetal addition on phase transformation and as-cast microstructure characteristics of M2 high-speed steel. Journal of Rare Earths, 2013, 31, 628-633. | 2.5 | 27 |
| 21 | Study on transformation characteristics of carbides in an 8% Cr roller steel. Journal of Materials Science, 2012, 47, 7132-7137. | 1.7 | 6 |
| 22 | Mechanical Behavior and Microstructural Change of a High Nitrogen CrMn Austenitic Stainless Steel during Hot Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1025-1032. | 1.1 | 29 |
| 23 | Effect of Hot Deformation on the Nitride Precipitation Behavior in High Nitrogen Austenitic Steel. Journal of Materials Engineering and Performance, 2010, 19, 951-954. | 1.2 | 5 |
| 24 | Study on hot deformation characteristics of 12%Cr ultra-super-critical rotor steel using processing maps and Zener-Hollomon parameter. Materials Characterization, 2010, 61, 25-30. | 1.9 | 39 |
| 25 | Effect of Preheating Temperature on Surface Cracking of High Nitrogen CrMn Austenitic Stainless Steel. Journal of Materials Science and Technology, 2010, 26, 798-802. | 5.6 | 16 |
| 26 | Processing maps and hot workability of Super304H austenitic heat-resistant stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 517, 312-315. | 2.6 | 48 |