# Ran Ding

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8827988/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 27<br>papers | 945<br>citations | 566801<br>15<br>h-index | 580395<br>25<br>g-index |
| 27<br>all docs | 27<br>docs citations | 27<br>times ranked | 550<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effect of post bonding heat treatment on the local strain evolution of transient liquid phase bonded RAFM steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 143008. | 2.6 | 4 |
| 2 | Chemical heterogeneity enables austenite stabilization in a Si-/Al-free Fe-0.2C-2Mn steel. Scripta Materialia, 2022, 218, 114822. | 2.6 | 6 |
| 3 | Fundamentals and application of solid-state phase transformations for advanced high strength steels containing metastable retained austenite. Materials Science and Engineering Reports, 2021, 143, 100590. | 14.8 | 100 |
| 4 | Critical role of LÃ¼ders banding in hydrogen embrittlement susceptibility of medium Mn steels. Scripta Materialia, 2021, 190, 32-37. | 2.6 | 24 |
| 5 | Effect of solution cooling rate on microstructure evolution and mechanical properties of Ni-based superalloy ATI 718Plus. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 812, 141113. | 2.6 | 16 |
| 6 | Chemical heterogeneity enhances hydrogen resistance in high-strength steels. Nature Materials, 2021, 20, 1629-1634. | 13.3 | 83 |
| 7 | Microstructure and mechanical properties of a novel medium Mn steel with Cr and Mo microalloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 825, 141926. | 2.6 | 12 |
| 8 | How chemical boundary engineering can produce cheap, ultra-strong steels. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2020, 173, 102-102. | 0.3 | 2 |
| 9 | Chemical boundary engineering: A new route toward lean, ultrastrong yet ductile steels. Science Advances, 2020, 6, eaay1430. | 4.7 | 120 |
| 10 | Stabilizing austenite via a core-shell structure in the medium Mn steels. Scripta Materialia, 2019, 166, 68-72. | 2.6 | 40 |
| 11 | Improving the ductility of ultrahigh-strength medium Mn steels via introducing pre-existed austenite acting as a â€œreservoirâ€•for Mn atoms. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 749, 235-240. | 2.6 | 26 |
| 12 | Thermo-kinetic design of retained austenite in advanced high strength steels. Acta Materialia, 2018, 152, 288-299. | 3.8 | 40 |
| 13 | 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. | 1.1 | 3 |
| 14 | Effect of pre-existed austenite on austenite reversion and mechanical behavior of an Fe-0.2C-8Mn-2Al medium Mn steel. Acta Materialia, 2018, 147, 59-69. | 3.8 | 137 |
| 15 | Elucidating the effect of Mn partitioning on interface migration and carbon partitioning during Quenching and Partitioning of the Fe-C-Mn-Si steels: Modeling and experiments. Acta Materialia, 2018, 144, 666-678. | 3.8 | 60 |
| 16 | Effect of Heat Treatment on Microstructure and Mechanical Properties of Quenching and Partitioning Steel. Acta Metallurgica Sinica (English Letters), 2018, 31, 216-224. | 1.5 | 16 |
| 17 | Two-body abrasion wear mechanism of super bainitic steel. Materials Science and Technology, 2017, 33, 893-898. | 0.8 | 19 |
| 18 | A cyclic austenite reversion treatment for stabilizing austenite in the medium manganese steels. Scripta Materialia, 2017, 136, 6-10. | 2.6 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Effects of Mn and Cr contents on microstructures and mechanical properties of low temperature bainitic steel. Journal of Iron and Steel Research International, 2017, 24, 290-295. | 1.4 | 22 |
| 20 | Quenching and partitioning steel produced through hot rolling, direct quenching and annealing. Materials Science and Technology, 2016, 32, 1605-1612. | 0.8 | 14 |
| 21 | Effect of ultragrain refinement on quenching and partitioning steels manufactured by a novel method. Materials and Design, 2015, 87, 640-649. | 3.3 | 33 |
| 22 | Effect of intercritical temperature on quenching and partitioning steels originated from martensitic pre-microstructure. Journal of Materials Research, 2014, 29, 2525-2533. | 1.2 | 20 |
| 23 | A New Type of Quenching and Partitioning Processing Developed from Martensitic Pre-microstructure. Materials and Manufacturing Processes, 2014, 29, 704-709. | 2.7 | 16 |
| 24 | A novel design to enhance the amount of retained austenite and mechanical properties in low-alloyed steel. Scripta Materialia, 2014, 88, 21-24. | 2.6 | 83 |
| 25 | 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. | 1.4 | 11 |
| 26 | Microstructure and Mechanical Properties of TRIP-Aided Steels with Different Heat Treatments. Materials Science Forum, 0, 817, 439-443. | 0.3 | 2 |
| 27 | Wear Resistance Research of Advanced High Strength Steels. Materials Science Forum, 0, 850, 197-201. | 0.3 | 1 |