

Ran Ding

List of Publications by Year in descending order

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

Version: 2024-02-01

27
papers

945
citations

566801

15
h-index

580395

25
g-index

27
all docs

27
docs citations

27
times ranked

550
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of pre-existed austenite on austenite reversion and mechanical behavior of an Fe-0.2C-8Mn-2Al medium Mn steel. <i>Acta Materialia</i> , 2018, 147, 59-69.	3.8	137
2	Chemical boundary engineering: A new route toward lean, ultrastrong yet ductile steels. <i>Science Advances</i> , 2020, 6, eaay1430.	4.7	120
3	Fundamentals and application of solid-state phase transformations for advanced high strength steels containing metastable retained austenite. <i>Materials Science and Engineering Reports</i> , 2021, 143, 100590.	14.8	100
4	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.	2.6	83
5	Chemical heterogeneity enhances hydrogen resistance in high-strength steels. <i>Nature Materials</i> , 2021, 20, 1629-1634.	13.3	83
6	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. <i>Acta Materialia</i> , 2018, 144, 666-678.	3.8	60
7	Thermo-kinetic design of retained austenite in advanced high strength steels. <i>Acta Materialia</i> , 2018, 152, 288-299.	3.8	40
8	Stabilizing austenite via a core-shell structure in the medium Mn steels. <i>Scripta Materialia</i> , 2019, 166, 68-72.	2.6	40
9	A cyclic austenite reversion treatment for stabilizing austenite in the medium manganese steels. <i>Scripta Materialia</i> , 2017, 136, 6-10.	2.6	35
10	Effect of ultragrain refinement on quenching and partitioning steels manufactured by a novel method. <i>Materials and Design</i> , 2015, 87, 640-649.	3.3	33
11	Improving the ductility of ultrahigh-strength medium Mn steels via introducing pre-existed austenite acting as a "reservoir" for Mn atoms. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 749, 235-240.	2.6	26
12	Critical role of γ bands banding in hydrogen embrittlement susceptibility of medium Mn steels. <i>Scripta Materialia</i> , 2021, 190, 32-37.	2.6	24
13	Effects of Mn and Cr contents on microstructures and mechanical properties of low temperature bainitic steel. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 290-295.	1.4	22
14	Effect of intercritical temperature on quenching and partitioning steels originated from martensitic pre-microstructure. <i>Journal of Materials Research</i> , 2014, 29, 2525-2533.	1.2	20
15	Two-body abrasion wear mechanism of super bainitic steel. <i>Materials Science and Technology</i> , 2017, 33, 893-898.	0.8	19
16	A New Type of Quenching and Partitioning Processing Developed from Martensitic Pre-microstructure. <i>Materials and Manufacturing Processes</i> , 2014, 29, 704-709.	2.7	16
17	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.	1.5	16
18	Effect of solution cooling rate on microstructure evolution and mechanical properties of Ni-based superalloy ATI 718Plus. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 812, 141113.	2.6	16

#	ARTICLE	IF	CITATIONS
19	Quenching and partitioning steel produced through hot rolling, direct quenching and annealing. <i>Materials Science and Technology</i> , 2016, 32, 1605-1612.	0.8	14
20	Microstructure and mechanical properties of a novel medium Mn steel with Cr and Mo microalloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 825, 141926.	2.6	12
21	Effect of Nb on Microstructure and Mechanical Properties in Non-magnetic High Manganese Steel. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 600-605.	1.4	11
22	Chemical heterogeneity enables austenite stabilization in a Si-/Al-free Fe-0.2C-2Mn steel. <i>Scripta Materialia</i> , 2022, 218, 114822.	2.6	6
23	Effect of post bonding heat treatment on the local strain evolution of transient liquid phase bonded RAFM steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 143008.	2.6	4
24	Ultrafine-Grained Multiphase Steels with Different Microstructural Constitutions Fabricated Through Annealing of Tempered and Deformed Martensite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 1439-1443.	1.1	3
25	Microstructure and Mechanical Properties of TRIP-Aided Steels with Different Heat Treatments. <i>Materials Science Forum</i> , 0, 817, 439-443.	0.3	2
26	How chemical boundary engineering can produce cheap, ultra-strong steels. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2020, 173, 102-102.	0.3	2
27	Wear Resistance Research of Advanced High Strength Steels. <i>Materials Science Forum</i> , 0, 850, 197-201.	0.3	1