

Zongbiao Dai

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

621
citations

840776

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1281871

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g-index

12
all docs

12
docs citations

12
times ranked

373
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Field Modeling of Austenite Decomposition and Formation in Steels: An Overview. , 2022, , 527-540.		0
2	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.	31.8	100
3	Revealing carbide precipitation effects and their mechanisms during quenching-partitioning-tempering of a high carbon steel: Experiments and Modeling. Acta Materialia, 2021, 217, 117176.	7.9	21
4	Incomplete carbon partitioning during quenching and partitioning of Fe- ϵ -Mn-Si steels: Modeling and experimental validations. Acta Materialia, 2020, 200, 597-607.	7.9	21
5	Chemical boundary engineering: A new route toward lean, ultrastrong yet ductile steels. Science Advances, 2020, 6, eaay1430.	10.3	120
6	Kinetic transitions and Mn partitioning during austenite growth from a mixture of partitioned cementite and ferrite: Role of heating rate. Journal of Materials Science and Technology, 2020, 49, 70-80.	10.7	31
7	The effect of ϵ -Ni ₃ Ti precipitates and reversed austenite on the passive film stability of nickel-rich Custom 465 steel. Corrosion Science, 2019, 154, 178-190.	6.6	64
8	The Correlation Between the Distribution/Size of Carbides and Electrochemical Behavior of 17Cr-1Ni Ferritic-Martensitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 388-400.	2.2	11
9	Thermo-kinetic design of retained austenite in advanced high strength steels. Acta Materialia, 2018, 152, 288-299.	7.9	40
10	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.	7.9	137
11	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.	7.9	60
12	Effect of Interfacial Mn Partitioning on Carbon Partitioning and Interface Migration During the Quenching and Partitioning Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3168-3174.	2.2	16