

# Chenghao Song

## List of Publications by Year in descending order

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23  
papers

355  
citations

933447

10  
h-index

794594

19  
g-index

23  
all docs

23  
docs citations

23  
times ranked

230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of double quenching and tempering heat treatment on the microstructure and mechanical properties of a novel 5Cr steel processed by electro-slag casting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 619, 212-220.	5.6	56
2	The stability of retained austenite at different locations during straining of I&Q&P steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 326-334.	5.6	54
3	Stress partitioning among ferrite, martensite and retained austenite of a TRIP-assisted multiphase steel: An in-situ high-energy X-ray diffraction study. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 726, 1-9.	5.6	43
4	Study of microstructure, mechanical properties and impact-abrasive wear behavior of medium-carbon steel treated by quenching and partitioning (Q&P) process. <i>Wear</i> , 2018, 414-415, 21-30.	3.1	34
5	Effect of multiphase microstructure on fatigue crack propagation behavior in TRIP-assisted steels. <i>International Journal of Fatigue</i> , 2020, 133, 105425.	5.7	26
6	Investigation of microstructural evolution and bainite transformation kinetics of multi-phase steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 774, 138868.	5.6	17
7	A new hot-rolled lightweight steel with ultra-high strength and good ductility designed by dislocation character and transformation strain. <i>Scripta Materialia</i> , 2022, 212, 114583.	5.2	17
8	Optimization of process parameters using the Grey-Taguchi method and experimental validation in TRIP-assisted steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 777, 139084.	5.6	14
9	Effect of carbon at interface of austenite on manganese segregation of low carbon and manganese steel. <i>Materials Letters</i> , 2016, 174, 75-78.	2.6	13
10	Precipitation Behavior and Microstructural Evolution of Vanadium-Added TRIP-Assisted Annealed Martensitic Steel. <i>Steel Research International</i> , 2017, 88, 1600234.	1.8	11
11	Precipitation and Mechanical Property of V-Alloyed Steel: Role of Cooling Rate. <i>Steel Research International</i> , 2020, 91, 1900444.	1.8	9
12	Hydrogen Trapping Behavior in Vanadium Microalloyed TRIP-Assisted Annealed Martensitic Steel. <i>Metals</i> , 2019, 9, 741.	2.3	8
13	Modeling of Bainite Transformation During Partitioning Process and Atomic-Scale Characterization of Bainite. <i>Steel Research International</i> , 2019, 90, 1800482.	1.8	7
14	Effect of Tempering Temperature on Microstructure Evolution and Mechanical Properties of 5% Cr Steel via Electro-Slag Casting. <i>Steel Research International</i> , 2015, 86, 1082-1089.	1.8	6
15	Study of Deformation Behavior and Microstructural Evolution in Multiphase Steel. <i>Materials</i> , 2018, 11, 2285.	2.9	6
16	Analysis of precipitation characteristics of TiC at different quenching and partitioning temperatures and its effect on the mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141868.	5.6	6
17	Interaction of austenite reversion with precipitation/dissolution during aging in a medium Mn steel alloyed with Cu, Ni and Al. <i>Materials Characterization</i> , 2021, 181, 111486.	4.4	6
18	Nano-precipitation leading to linear zero thermal expansion over a wide temperature range in Ti22Nb. <i>Scripta Materialia</i> , 2021, 205, 114222.	5.2	6

#	ARTICLE	IF	CITATIONS
19	Study of microstructural evolution and mechanical properties of 1000MPa low-carbon microalloyed steel prepared by multiple quenching strategies near Ms. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142968.	5.6	6
20	Developing 1000MPa grade LCLA steels through continuous cooling: Effects of Cr and cooling rate on bainitic and martensitic transformations. Materials Characterization, 2022, 187, 111859.	4.4	6
21	Competitive mechanism between cementite and grain boundaries of arsenic segregation. Materials Letters, 2015, 138, 151-153.	2.6	3
22	Micromechanical Behavior of Transformation-Induced Plasticity-Assisted Annealed Martensitic Steel Using In Situ Neutron Diffraction. Steel Research International, 2020, 91, 1900631.	1.8	1
23	Mechanical Behaviors of Microalloyed TRIP-Assisted Annealed Martensitic Steels under Hydrogen Charging. Materials, 2021, 14, 7752.	2.9	0