

# Wenwen Song

## List of Publications by Year in descending order

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28  
papers

697  
citations

687363

13  
h-index

552781

26  
g-index

32  
all docs

32  
docs citations

32  
times ranked

501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Macroscopic to nanoscopic in situ investigation on yielding mechanisms in ultrafine grained medium Mn steels: Role of the austenite-ferrite interface. <i>Acta Materialia</i> , 2019, 178, 10-25.	7.9	95
2	Phase boundary segregation-induced strengthening and discontinuous yielding in ultrafine-grained duplex medium-Mn steels. <i>Acta Materialia</i> , 2020, 200, 389-403.	7.9	70
3	Control of Strain Hardening Behavior in High-Mn Austenitic Steels. <i>Acta Metallurgica Sinica (English)</i> Tj ETQq1 1 0.784314 rgBT /Over 2.9 84	2.9	64
4	Phase Formation in Fe-Mn-Al-C Austenitic Steels. <i>Steel Research International</i> , 2015, 86, 1161-1169.	1.8	61
5	On the Spheroidized Carbide Dissolution and Elemental Partitioning in High Carbon Bearing Steel 100Cr6. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 595-606.	2.2	60
6	Strain-induced martensite decay in bearing steels under rolling contact fatigue: Modelling and atomic-scale characterisation. <i>Acta Materialia</i> , 2017, 139, 163-173.	7.9	60
7	Investigation of the Microstructure Evolution in a Fe-17Mn-1.5Al-0.3C Steel via In Situ Synchrotron X-ray Diffraction during a Tensile Test. <i>Materials</i> , 2017, 10, 1129.	2.9	32
8	Influence of Intercritical Annealing Temperature on Microstructure and Mechanical Properties of a Cold-Rolled Medium-Mn Steel. <i>Metals</i> , 2018, 8, 357.	2.3	32
9	Precipitation behavior and austenite stability of Nb or Nb-Mo micro-alloyed warm-rolled medium-Mn steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 766, 138371.	5.6	27
10	Recrystallization behavior in a low-density high-Mn high-Al austenitic steel undergone thin strip casting process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 733, 87-97.	5.6	26
11	On the Mn-C Short-Range Ordering in a High-Strength High-Ductility Steel: Small Angle Neutron Scattering and Ab Initio Investigation. <i>Metals</i> , 2018, 8, 44.	2.3	20
12	Austenite transformation and deformation behavior of a cold-rolled medium-Mn steel under different annealing temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 829, 142115.	5.6	19
13	Influence of Microstructural Morphology on Hydrogen Embrittlement in a Medium-Mn Steel Fe-12Mn-3Al-0.05C. <i>Metals</i> , 2019, 9, 929.	2.3	13
14	Evaluation of hydrogen effect on the fatigue crack growth behavior of medium-Mn steels via in-situ hydrogen plasma charging in an environmental scanning electron microscope. <i>Journal of Materials Science and Technology</i> , 2021, 85, 30-43.	10.7	13
15	Strain Aging Behavior of an Austenitic High-Mn Steel. <i>Steel Research International</i> , 2018, 89, 1700515.	1.8	12
16	Austenite reversion and nano-precipitation during a compact two-step heat treatment of medium-Mn steel containing Cu and Ni. <i>Journal of Materials Research and Technology</i> , 2022, 17, 2601-2613.	5.8	12
17	Mechanism-controlled thermomechanical treatment of high manganese steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 828, 142056.	5.6	10
18	Study on a High Entropy Alloy by High Energy Synchrotron X-Ray Diffraction and Small Angle Neutron Scattering. <i>Steel Research International</i> , 2017, 88, 1700079.	1.8	9

#	ARTICLE	IF	CITATIONS
19	Multiphase-field Simulation of Cementite Precipitation during Isothermal Lower Bainitic Transformation. Steel Research International, 2018, 89, 1800028.	1.8	9
20	Local Deformation and Mn-C Short-Range Ordering in a High-Mn Fe-18Mn-0.6C Steel. Metals, 2018, 8, 292.	2.3	9
21	Tailoring the Austenite Fraction of a Cu and Ni Containing Medium-Mn Steel via Warm Rolling. Metals, 2021, 11, 1888.	2.3	8
22	Phase-specific Precipitation of Intermetallic Phases in Fe Al Mn Ni C Duplex Steels. Steel Research International, 2019, 90, 1800440.	1.8	7
23	Carbon Redistribution in Martensite in High-C Steel: Atomic-Scale Characterization and Modelling. Metals, 2018, 8, 577.	2.3	6
24	Multiphase-field simulation of austenite reversion in medium-Mn steels. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 847-853.	4.9	5
25	Dynamic and Static Strain Aging in a High-Manganese Steel. Steel Research International, 2022, 93, .	1.8	3
26	The Influence of Continuous Cooling Rate on Nano-precipitation Behavior of a Ti-bearing Steel undergone Hot Deformation. Steel Research International, 2018, 89, 1700361.	1.8	2
27	Steel "Ab Initio: Quantum Mechanics Guided Design of New Fe-Based Materials. , 2015, , 47-54.		1
28	ICME Towards Improved Understanding of Bainite in 100Cr6. , 2015, , 39-46.		0