

# Huamei Duan

## List of Publications by Year in descending order

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50  
papers

507  
citations

759233

12  
h-index

888059

17  
g-index

50  
all docs

50  
docs citations

50  
times ranked

270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction behavior of silicon-rich diasporic bauxite with ammonium sulfate during roasting. Journal of Central South University, 2022, 29, 22-31.	3.0	9
2	Comprehensive Utilization of Boron-Concentrate by Hydrometallurgy. Journal of Sustainable Metallurgy, 2021, 7, 244-255.	2.3	4
3	Temperature Distribution in the As-Cast Steel Specimen During Gleeble Hot-Tensile Test and Its Effect on High-Temperature Mechanical Properties. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1228-1242.	2.1	7
4	A New Process of Extracting Titanium from Vanadium-Titanium Magnetite. Crystals, 2021, 11, 327.	2.2	6
5	Structural and transport properties of TiO <sub>2</sub> -SiO <sub>2</sub> -MgO-CaO system through molecular dynamics simulations. Journal of Molecular Liquids, 2021, 325, 115226.	4.9	7
6	Effect of Precipitated Precursor on the Catalytic Performance of Mesoporous Carbon Supported CuO-ZnO Catalysts. Crystals, 2021, 11, 582.	2.2	2
7	Migration and Enrichment Behaviors of Ca and Mg Elements during Cooling and Crystallization of Boron-Bearing Titanium Slag Melt. Crystals, 2021, 11, 888.	2.2	5
8	Temperature errors in two-color pyrometry simultaneously considering re-radiation and combustion gas radiation. Optics Express, 2021, 29, 25084.	3.4	5
9	DFT study of CO <sub>2</sub> adsorption properties on pristine, vacancy and doped graphenes. Solid State Communications, 2021, 337, 114436.	1.9	25
10	Thermodynamic study on the solute partition coefficients on L/ $\delta$ and L/ $\delta$ + $\delta$ <sup>3</sup> phase interfaces for 1215 high-sulfur steel solidification by orthogonal design. Journal of Materials Research and Technology, 2020, 9, 89-103.	5.8	13
11	The Formation of Humps and Ripples During Selective Laser Melting of 316l Stainless Steel. Jom, 2020, 72, 1128-1137.	1.9	12
12	Investigation of the Peritectic Phase Transition in a Commercial Peritectic Steel Under Different Cooling Rates Using In Situ Observation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 338-352.	2.1	27
13	Hydraulic Modeling on Flow Behavior in High-Speed Billet Continuous Casting Mold Considering Hydrostatic Pressure and Solidified Shell. Metals, 2020, 10, 1226.	2.3	4
14	The effect of the elements Cr, Os, Ir, and Y additions on the mechanical and electronic properties of L12 Ni <sub>3</sub> Co alloys. Journal of Applied Physics, 2020, 128, .	2.5	4
15	Melting and Flowing Behavior of Mold Flux in a Continuous Casting Billet Mold for Ultra-High Speed. Metals, 2020, 10, 1165.	2.3	9
16	Control of Coarse Precipitates of Titanium Nitride in High-Strength Low-Alloy Steel. Metal Science and Heat Treatment, 2020, 61, 534-542.	0.6	5
17	The Reduction of Cu <sup>2+</sup> Promoted by Zn or Ni on rGO. Jom, 2020, 72, 4458-4465.	1.9	5
18	Ab Initio Calculations on Elastic Properties of IF Steel Matrix Phase at High Temperature Based on Lattice Expansion Theory. Metals, 2020, 10, 283.	2.3	6

#	ARTICLE	IF	CITATIONS
19	Ab Initio Study on Continuous Evolution of Mechanical Properties in Phase Transition Region of Low Carbon Steel. <i>Steel Research International</i> , 2020, 91, 2000070.	1.8	5
20	Evolution of Phase Transition and Mechanical Properties of Ultra-High Strength Hot-Stamped Steel During Quenching Process. <i>Metals</i> , 2020, 10, 138.	2.3	13
21	Thermal Behavior During the Selective Laser Melting Process of Ti-6Al-4V Powder in the Point Exposure Scan Pattern. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2804-2814.	2.1	6
22	Effect of hot water vapor on strand surface temperature measurement in steel continuous casting. <i>International Journal of Thermal Sciences</i> , 2019, 138, 467-479.	4.9	16
23	Quantifying the Effects of Combustion Gases™ Radiation on Surface Temperature Measurements Using Two-Color Pyrometry. <i>Energy &amp; Fuels</i> , 2019, 33, 3610-3619.	5.1	13
24	Coupled effects of reflection and absorptive gas mixture on surface temperature determined by single color pyrometer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 228, 111-123.	2.3	6
25	Influence of Al on Evolution of the Inclusions in Ti-Bearing Steel with Ca Treatment. <i>Metals</i> , 2019, 9, 104.	2.3	5
26	Effect of the mold corner structure on the friction behavior in slab continuous casting molds. <i>Journal of Materials Processing Technology</i> , 2019, 270, 157-167.	6.3	7
27	Numerical modeling of centerline segregation by a combined 3-D and 2-D hybrid model during slab continuous casting. <i>Journal of Materials Research</i> , 2018, 33, 989-1002.	2.6	5
28	Stress and Friction Distribution around Slab Corner in Continuous Casting Mold with Different Corner Structures. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 866-876.	2.1	9
29	Synthesis and Characterization of Catalysts Cu-ZnO Supported on Mesoporous Carbon FDU-15. <i>Journal of the Chinese Chemical Society</i> , 2018, 65, 793-800.	1.4	1
30	Dilatometric determination of four critical temperatures and phase transition fraction for austenite decomposition in hypo-eutectoid steels using peak separation method. <i>Journal of Materials Research</i> , 2018, 33, 967-977.	2.6	13
31	Uniform Secondary Cooling Pattern for Minimizing Surface Reheating of the Strand During Round Bloom Continuous Casting. <i>Jom</i> , 2018, 70, 237-242.	1.9	6
32	Experimental and Kinetic Study of Magnesium Extraction and Leaching from Laterite Nickel Ore by Roasting with Ammonium Sulfate. <i>Russian Journal of Non-Ferrous Metals</i> , 2018, 59, 596-604.	0.6	9
33	Crystallization Behaviors of Anosovite and Silicate Crystals in High CaO and MgO Titanium Slag. <i>Metals</i> , 2018, 8, 754.	2.3	10
34	Effects of Inclusion Precipitation, Partition Coefficient, and Phase Transition on Microsegregation for High-Sulfur Steel Solidification. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 3280-3292.	2.1	23
35	Cu-ZnO anchored on APS modified activated carbon as an enhanced catalyst for methanol synthesis—The role of ZnO. <i>Journal of Materials Research</i> , 2018, 33, 1625-1631.	2.6	8
36	Using differential scanning calorimetry to characterize the precipitation and dissolution of V(CN) and VC particles during continuous casting and reheating process. <i>Journal of Materials Research</i> , 2018, 33, 2784-2795.	2.6	1

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37	Numerical study on the characteristics of solute distribution and the formation of centerline segregation in continuous casting (CC) slab. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 843-853.	4.8	40
38	Fluid Flow and Solidified Shell Remelting in F-EMS During Billet Continuous Casting. <i>Jom</i> , 2018, 70, 2059-2064.	1.9	6
39	A new wavelength selection criterion for two-color pyrometer interfered with participating media. <i>Infrared Physics and Technology</i> , 2018, 93, 136-143.	2.9	9
40	Effect of MnS precipitation on solute equilibrium partition coefficients in high sulfur steel during solidification. <i>Journal of Materials Research</i> , 2018, 33, 3490-3500.	2.6	9
41	Production of Synthetic Rutile from Molten Titanium Slag with the Addition of B <sub>2</sub> O <sub>3</sub> . <i>Jom</i> , 2017, 69, 1914-1919.	1.9	16
42	Modeling on solute enrichment and inclusion precipitation during the solidification process of high sulfur steel slab. <i>Journal of Materials Research</i> , 2017, 32, 3854-3863.	2.6	7
43	Fluid flow and heat transfer behavior of liquid steel in slab mold with different corner structures. Part 1: Mathematical model and verification. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 642-656.	2.1	10
44	Fluid flow and heat transfer behavior of liquid steel in slab mold with different corner structures. Part 2: Fluid flow, heat transfer, and solidification characteristics. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 657-668.	2.1	5
45	Phase Transition of Peritectic Steel Q345 and Its Effect on the Equilibrium Partition Coefficients of Solutes. <i>Metals</i> , 2017, 7, 288.	2.3	15
46	Universal Secondary Cooling Structure for Round Blooms Continuous Casting of Steels in Various Diameters. <i>Steel Research International</i> , 2015, 86, 154-162.	1.8	6
47	Mesoporous Carbon-supported Cu/ZnO for Methanol Synthesis from Carbon Dioxide. <i>Australian Journal of Chemistry</i> , 2014, 67, 907.	0.9	12
48	A facile method to synthesis a mesoporous carbon supported methanol catalyst containing well dispersed Cu/ZnO. <i>Materials Research Bulletin</i> , 2014, 60, 232-237.	5.2	8
49	Effect of uneven solidification on the quality of continuous casting slab. <i>International Journal of Materials and Product Technology</i> , 2013, 47, 216.	0.2	15
50	Study on Mitigating Center Macro-segregation During Steel Continuous Casting Process. <i>Steel Research International</i> , 2011, 82, 847-856.	1.8	38