

# Shufeng Yang

## List of Publications by Citations

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92  
papers

680  
citations

13  
h-index

22  
g-index

95  
ext. papers

920  
ext. citations

2.6  
avg, IF

4.37  
L-index

#	Paper	IF	Citations
92	Formation and Modification of MgO-Al <sub>2</sub> O <sub>3</sub> -Based Inclusions in Alloy Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2012</b> , 43, 731-750	2.5	127
91	Effect of Mg Addition on the Refinement and Homogenized Distribution of Inclusions in Steel with Different Al Contents. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 805-818	2.5	30
90	Graphene encapsulated SiC nanoparticles as tribology-favoured nanofillers in aluminium composite. <i>Composites Part B: Engineering</i> , <b>2019</b> , 162, 445-453	10	28
89	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> , <b>2018</b> , 726, 1-9	5.3	26
88	In Situ synthesis of SiC-graphene core-shell nanoparticles using wet ball milling. <i>Ceramics International</i> , <b>2018</b> , 44, 8283-8289	5.1	25
87	Motion Behavior of Nonmetallic Inclusions at the Interface of Steel and Slag. Part I: Model Development, Validation, and Preliminary Analysis. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 1882-1892	2.5	23
86	Numerical Simulation of Slag Eye Formation and Slag Entrapment in a Bottom-Blown Argon-Stirred Ladle. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 2681-2691	2.5	23
85	Motion Behavior of Nonmetal Inclusions at the Interface of Steel and Slag. Part II: Model Application and Discussion. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2014</b> , 45, 2453-2463	2.5	19
84	Water Modeling of Self-Braking Submerged Entry Nozzle Used for Steel Continuous Casting Mold. <i>Jom</i> , <b>2012</b> , 64, 1080-1086	2.1	19
83	Microstructure and tribological behaviour of alumina composites reinforced with SiC-graphene core-shell nanoparticles. <i>Tribology International</i> , <b>2019</b> , 131, 94-101	4.9	19
82	Structure Optimization of Horizontal Continuous Casting Tundishes Using Mathematical Modeling and Water Modeling. <i>ISIJ International</i> , <b>2009</b> , 49, 1551-1560	1.7	18
81	Effects of MgO, Na <sub>2</sub> O, and B <sub>2</sub> O <sub>3</sub> on the Viscosity and Structure of Cr <sub>2</sub> O <sub>3</sub> -bearing CaO-Bi <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> Slags. <i>ISIJ International</i> , <b>2017</b> , 57, 689-696	1.7	16
80	Distribution Ratios of Phosphorus Between CaO-FeO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> /Na <sub>2</sub> O/TiO <sub>2</sub> Slags and Carbon-Saturated Iron. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 2367-2378	2.5	15
79	Detection of Non-metallic Inclusions in Centrifugal Continuous Casting Steel Billets. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 1594-1612	2.5	13
78	Solid-State Reaction Between Fe-Al-Ca Alloy and Al <sub>2</sub> O <sub>3</sub> -CaO-FeO Oxide During Heat Treatment at 1473 K (1200 °C). <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 1348-1357	2.5	12
77	Correlation between evolution of inclusions and pitting corrosion in 304 stainless steel with yttrium addition. <i>Scientific Reports</i> , <b>2018</b> , 8, 4830	4.9	12
76	Pitting Corrosion of Steel Induced by Al <sub>2</sub> O <sub>3</sub> Inclusions. <i>Metals</i> , <b>2017</b> , 7, 347	2.3	12

75	Large Eddy Simulation on Flow Structure in a Dissipative Ladle Shroud and a Tundish. <i>ISIJ International</i> , <b>2015</b> , 55, 1684-1692	1.7	11
74	Microstructural evolution of hybrid aluminum matrix composites reinforced with SiC nanoparticles and graphene/graphite prepared by powder metallurgy. <i>Progress in Natural Science: Materials International</i> , <b>2020</b> , 30, 192-199	3.6	10
73	Towards a better understanding of localised corrosion induced by typical non-metallic inclusions in low-alloy steels. <i>Corrosion Science</i> , <b>2021</b> , 179, 109150	6.8	10
72	Advances in Ladle Shroud as A Functional Device in Tundish Metallurgy: A Review. <i>ISIJ International</i> , <b>2019</b> , 59, 1167-1177	1.7	9
71	A Comparative Study of Fluid Flow and Mass Transfer in a Trumpet-Shaped Ladle Shroud Using Large Eddy Simulation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 495-507	2.5	9
70	Effect of EMBr on Flow in Slab Continuous Casting Mold and Evaluation Using Nail Dipping Measurement. <i>Steel Research International</i> , <b>2013</b> , 84, 259-268	1.6	9
69	Study on Micro Segregation of High Alloy FeMnTiAl Steel. <i>Steel Research International</i> , <b>2019</b> , 90, 1800546	4.6	8
68	Control of MnS Inclusions in High- and Low-Sulfur Steel by Tellurium Treatment. <i>Materials</i> , <b>2019</b> , 12,	3.5	7
67	Dephosphorization by Double-Slag Process in Converter Steelmaking. <i>High Temperature Materials and Processes</i> , <b>2018</b> , 37, 625-633	0.9	7
66	Understanding the Corrosion Mechanism of Spring Steel Induced by MnS Inclusions with Different Sizes. <i>Jom</i> , <b>2018</b> , 70, 2513-2522	2.1	7
65	Effects of Different Melting Technologies on the Purity of Superalloy GH4738. <i>Materials</i> , <b>2018</b> , 11,	3.5	7
64	The Effect of Tellurium on the Formation of MnTe-MnS Composite Inclusions in Non-Quenched and Tempered Steel. <i>Metals</i> , <b>2018</b> , 8, 639	2.3	7
63	Effects of Surface-Modified MgO Nanoparticles on Inclusion Characteristics and Microstructure in Carbon Structural Steel. <i>Jom</i> , <b>2018</b> , 70, 1136-1142	2.1	7
62	Effect of Turning Amount on Metallurgical Qualities and Mechanical Properties of GH4169 Superalloy. <i>Materials</i> , <b>2019</b> , 12,	3.5	6
61	The Influence of FeO on the Reaction between FeAlCa Alloy and Al <sub>2</sub> O <sub>3</sub> -CaO-FeO Oxide during Heat Treatment at 1473 K. <i>Metals</i> , <b>2017</b> , 7, 129	2.3	6
60	Nucleation and Ostwald Growth of Particles in Fe-O-Al-Ca Melt. <i>Scientific Reports</i> , <b>2018</b> , 8, 1135	4.9	6
59	Transformation of Oxide Inclusions in Stainless Steel Containing Yttrium during Isothermal Heating at 1473 K. <i>Metals</i> , <b>2019</b> , 9, 961	2.3	6
58	Mathematical modelling of fluid flow inside trumpet-shaped ladle shrouds. <i>Ironmaking and Steelmaking</i> , <b>2017</b> , 44, 732-738	1.3	5

57	Effect of Heat-Treatment Temperature on the Interfacial Reaction Between Oxide Inclusions and Si-Mn Killed Steel. <i>Jom</i> , <b>2018</b> , 70, 958-962	2.1	5
56	Sulfide Transformation with Tellurium Treatment for Y15 Free-Cutting Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 2284-2295	2.5	5
55	Microstructure characteristics and mechanical properties of a novel heavy density Ni <sub>40</sub> Mo matrix alloy prepared by VIM/VAR. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 13, 2459-2468	5.5	5
54	Numerical Investigation of Inclusion Motion at Molten Steel-Liquid Slag Interface During Ruhrstahl Heraeus (RH) Process. <i>Jom</i> , <b>2018</b> , 70, 2877-2885	2.1	5
53	Molecular Dynamics Simulation on Microstructure and Physicochemical Properties of Fe <sub>2</sub> O-SiO <sub>2</sub> -CaO-MgO-NiO Slag in Nickel Matte Smelting under Modulating CaO Content. <i>Minerals (Basel, Switzerland)</i> , <b>2020</b> , 10, 149	2.4	4
52	Effects of Different Hot Working Techniques on Inclusions in GH4738 Superalloy Produced by VIM and VAR. <i>Materials</i> , <b>2018</b> , 11,	3.5	4
51	Optimization on Reducing Slag Entrapment in 150 × 270 mm Slab Continuous Casting Mold. <i>Materials</i> , <b>2019</b> , 12,	3.5	4
50	CFD Modeling of Solid Inclusion Motion and Separation from Liquid Steel to Molten Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 2430	2.5	4
49	Induced-Pitting Behaviors of MnS Inclusions in Steel. <i>High Temperature Materials and Processes</i> , <b>2018</b> , 37, 1007-1016	0.9	4
48	Improvement of Utilization Ratio of Nanoparticles in Steel and Its Influence on Acicular Ferrite Formation. <i>Steel Research International</i> , <b>2017</b> , 88, 1600471	1.6	3
47	Coarsening Behavior of Particles in Fe-O-Al-Ca Melts. <i>Scientific Reports</i> , <b>2019</b> , 9, 3670	4.9	3
46	Evolution of oxide inclusions in stainless steel containing yttrium during thermo-mechanical treatment. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 5982-5990	5.5	3
45	Thermal physical properties and dephosphorisation kinetics of rare earth oxides containing slags. <i>Ironmaking and Steelmaking</i> , <b>2019</b> , 46, 968-973	1.3	3
44	Removal of Zinc and Lead from Blast Furnace Dust in a Fluidized-Bed Roaster. <i>Journal of Sustainable Metallurgy</i> , <b>2017</b> , 3, 441-449	2.7	3
43	Cyclic Use of Ladle Furnace Refining Slag for Desulfurization. <i>Journal of Sustainable Metallurgy</i> , <b>2017</b> , 3, 274-279	2.7	3
42	Effect of adding yttrium on precipitation behaviors of inclusions in E690 ultra high strength offshore platform steel. <i>High Temperature Materials and Processes</i> , <b>2020</b> , 39, 510-519	0.9	3
41	Fe/SiO <sub>2</sub> Ratio on the Properties, Microstructure and Fe-Containing Phases of Nickel Matte Smelting Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 1463-1471	2.5	3
40	Evolution of Interfacial Features of MnO-SiO <sub>2</sub> Type Inclusions/Steel Matrix during Isothermal Heating at Low Temperatures. <i>High Temperature Materials and Processes</i> , <b>2019</b> , 38, 347-353	0.9	3

39	Effect of slag composition on the cleanliness of drill rod steel. <i>Ironmaking and Steelmaking</i> , <b>2019</b> , 46, 416-423	1.3	3
38	Calculation of Static Suspension Depth and Meniscus Shape of a Solid Spherical Inclusion at the Steel-Slag Interface. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2020</b> , 51, 422-425	2.5	2
37	Inclusion characteristics and microstructure properties under different cooling conditions in steel with nanoparticles addition. <i>Ironmaking and Steelmaking</i> , <b>2018</b> , 45, 611-617	1.3	2
36	The Effect of a Dissipative Ladle Shroud on Mixing in Tundish: Mathematical and Experimental Modelling. <i>High Temperature Materials and Processes</i> , <b>2018</b> , 37, 25-32	0.9	2
35	Synthesis of Core-Shell MgO Alloy Nanoparticles for Steelmaking. <i>Coatings</i> , <b>2018</b> , 8, 161	2.9	2
34	Comparison of Multiphase Flow in a Continuous Casting Tundish Using Two Types of Industrialized Ladle Shrouds. <i>Jom</i> , <b>2018</b> , 70, 2886-2892	2.1	2
33	Characteristics of Non-metallic Inclusions in Steel Obtained from Different-Sized Samplers. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 3101-3108	2.5	2
32	Dephosphorization of hot metal using rare earth oxide-containing slags. <i>High Temperature Materials and Processes</i> , <b>2020</b> , 39, 520-526	0.9	2
31	Melting characteristics of steel scrap with different carbon contents in liquid steel. <i>Ironmaking and Steelmaking</i> , <b>2020</b> , 47, 1087-1099	1.3	2
30	Carbon Powder Mixed Injection with a Shrouding Supersonic Oxygen Jet in Electric Arc Furnace Steelmaking. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2020</b> , 51, 2298-2308	2.5	2
29	Phosphorus distribution between rare earth oxides containing slags and ferromanganese alloy. <i>Ironmaking and Steelmaking</i> , <b>2019</b> , 46, 485-490	1.3	2
28	Thermal simulation experiments on scrap melting in liquid steel. <i>Ironmaking and Steelmaking</i> , <b>2020</b> , 47, 442-448	1.3	2
27	Physical model experiment and theoretical analysis of scrap melting process in electric arc furnace combined blowing system. <i>Ironmaking and Steelmaking</i> , <b>2020</b> , 47, 748-756	1.3	2
26	Measurement of Surface Velocity in a 150 mm × 270 mm Slab Continuous-Casting Mold. <i>Metals</i> , <b>2020</b> , 10, 428	2.3	1
25	The Effect of Niobium on the Changing Behavior of Non-Metallic Inclusions in Solid Alloys Deoxidized with Mn and Si during Heat Treatment at 1473 K. <i>Metals</i> , <b>2017</b> , 7, 223	2.3	1
24	Effect of carbon addition on microstructure and mechanical properties of as-cast nickel-based heavy density matrix alloy reinforced by high tungsten content. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 894, 162464	5.7	1
23	Optimising inclusion and toughening the heat-affected zone of ship plate steel with MgO nanoparticles. <i>Materials Science and Technology</i> , <b>2020</b> , 36, 1574-1586	1.5	1
22	In-Situ Observation on the Agglomeration and Dispersion of Particles at the Interface of High-temperature Melts. <i>ISIJ International</i> , <b>2021</b> , 61, 753-762	1.7	1

21	Flow Field and Temperature Field in a Four-Strand Tundish Heated by Plasma. <i>Metals</i> , <b>2021</b> , 11, 722	2.3	1
20	Study on the Capillary Interaction Between Particles on the Surface of High-Temperature Melts. <i>Steel Research International</i> , <b>2021</b> , 92, 2100013	1.6	1
19	Simulation and application of submerged CO <sub>2</sub> injection in EAF steelmaking: combined blowing equipment arrangement and industrial application. <i>Ironmaking and Steelmaking</i> , <b>2021</b> , 48, 703-711	1.3	1
18	Effects of Heat-Treatment Temperature on the Microstructure and Mechanical Properties of Steel by MgO Nanoparticle Additions. <i>Materials</i> , <b>2018</b> , 11,	3.5	1
17	Fluid Flow and Inclusion Entrapment in the Runner Steel During Ingot Casting169-176		1
16	Inclusion Characteristics in Stainless Steel Ingots51-61		1
15	Application of Graphite Electrode Plasma Heating Technology in Continuous Casting.. <i>Materials</i> , <b>2022</b> , 15,	3.5	1
14	Reoxidation of Al-Killed Steel by Cr <sub>2</sub> O <sub>3</sub> from Tundish Cover Flux. <i>Metals</i> , <b>2019</b> , 9, 554	2.3	0
13	Characteristics and Evolution Behavior of Non-metallic Inclusions in a Novel Ni <sub>4</sub> W <sub>2</sub> Co Heavy-Density Alloy Manufactured by VIM/VAR. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2022</b> , 53, 760	2.5	0
12	Site Occupation and Structural Phase Transformation of the (010) Antiphase Boundary in Boron-Modified L1 <sub>2</sub> Ni <sub>3</sub> Al. <i>Jom</i> , <b>2021</b> , 73, 2285-2292	2.1	0
11	Initiation Mechanism of Localized Corrosion Induced by Al <sub>2</sub> O <sub>3</sub> -MnS Composite Inclusion in Low-Alloy Structural Steel. <i>Metals</i> , <b>2022</b> , 12, 587	2.3	0
10	Effect of in situ observation of cooling rates on acicular ferrite nucleation. <i>High Temperature Materials and Processes</i> , <b>2022</b> , 41, 181-190	0.9	0
9	Study on Internal Cracks on Continuous Casting Slabs of AH36 Steel <b>2013</b> , 305-314		
8	Study on Dezincification and De-Lead of Blast Furnace Dust by Fluidized Reduction Experiment <b>2014</b> , 675-683		
7	Experimental Study on the Production of Nitrogen-Bearing Stainless Steel by Injecting Nitrogen Gas <b>2012</b> , 858-866		
6	Interaction between Molten Steel, Alumina Lining Refractory and Slag Phase. <i>Journal for Manufacturing Science and Production</i> , <b>2013</b> , 13, 133-143		
5	Study on Localized Corrosion Induced by Non-metallic Inclusions in OCTG Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2022</b> , 53, 1212	2.5	
4	Optimizing Slag Content to Control Ds-Type Inclusions in 10B21 Cold Heading Steel. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 1016	2.4	

- 3 Analysis of Factors that Influence the Evolution of Molten Droplets During Electroslag Remelting. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2022**, 53, 716-729 2.5
- 2 Numerical and Physical Modeling of Liquid Inclusion Behaviors in Steel-Slag Two-Phase System. *Jom*, **2022**, 74, 1568-1577 2.1
- 1 Numerical Simulation of the Denitrification Reaction of INCONEL 718 Superalloy During Vacuum Induction Melting. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, 1 2.5