

Shufeng Yang

List of Publications by Year in descending order

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papers

1,217
citations

430442

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95
docs citations

95
times ranked

635
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation and Modification of MgO-Al ₂ O ₃ -Based Inclusions in Alloy Steels. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 731-750.	1.0	154
2	Towards a better understanding of localised corrosion induced by typical non-metallic inclusions in low-alloy steels. Corrosion Science, 2021, 179, 109150.	3.0	55
3	Graphene encapsulated SiC nanoparticles as tribology-favoured nanofillers in aluminium composite. Composites Part B: Engineering, 2019, 162, 445-453.	5.9	46
4	Effect of Mg Addition on the Refinement and Homogenized Distribution of Inclusions in Steel with Different Al Contents. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 805-818.	1.0	44
5	Stress partitioning among ferrite, martensite and retained austenite of a TRIP-assisted multiphase steel: An in-situ high-energy X-ray diffraction study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 726, 1-9.	2.6	43
6	Motion Behavior of Nonmetallic Inclusions at the Interface of Steel and Slag. Part I: Model Development, Validation, and Preliminary Analysis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1882-1892.	1.0	38
7	Numerical Simulation of Slag Eye Formation and Slag Entrapment in a Bottom-Blown Argon-Stirred Ladle. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2681-2691.	1.0	38
8	Effects of MgO, Na ₂ O, and B ₂ O ₃ on the Viscosity and Structure of Cr ₂ O ₃ -bearing CaO-SiO ₂ -Al ₂ O ₃ -B ₂ O ₃ Slags. ISIJ International, 2017, 57, 689-696.	0.6	36
9	In Situ synthesis of SiC-graphene core-shell nanoparticles using wet ball milling. Ceramics International, 2018, 44, 8283-8289.	2.3	30
10	Motion Behavior of Nonmetal Inclusions at the Interface of Steel and Slag. Part II: Model Application and Discussion. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2453-2463.	1.0	29
11	Microstructural evolution of hybrid aluminum matrix composites reinforced with SiC nanoparticles and graphene/graphite prepared by powder metallurgy. Progress in Natural Science: Materials International, 2020, 30, 192-199.	1.8	27
12	Microstructure and tribological behaviour of alumina composites reinforced with SiC-graphene core-shell nanoparticles. Tribology International, 2019, 131, 94-101.	3.0	26
13	Advances in Ladle Shroud as A Functional Device in Tundish Metallurgy: A Review. ISIJ International, 2019, 59, 1167-1177.	0.6	25
14	Distribution Ratios of Phosphorus Between CaO-FeO-SiO ₂ -Al ₂ O ₃ /Na ₂ O/TiO ₂ Slags and Carbon-Saturated Iron. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2367-2378.	1.0	24
15	Correlation between evolution of inclusions and pitting corrosion in 304 stainless steel with yttrium addition. Scientific Reports, 2018, 8, 4830.	1.6	24
16	The Effect of Tellurium on the Formation of MnTe-MnS Composite Inclusions in Non-Quenched and Tempered Steel. Metals, 2018, 8, 639.	1.0	24
17	Structure Optimization of Horizontal Continuous Casting Tundishes Using Mathematical Modeling and Water Modeling. ISIJ International, 2009, 49, 1551-1560.	0.6	22
18	Water Modeling of Self-Braking Submerged Entry Nozzle Used for Steel Continuous Casting Mold. Jom, 2012, 64, 1080-1086.	0.9	22

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19	Control of MnS Inclusions in High- and Low-Sulfur Steel by Tellurium Treatment. <i>Materials</i> , 2019, 12, 1034.	1.3	21
20	Large Eddy Simulation on Flow Structure in a Dissipative Ladle Shroud and a Tundish. <i>ISIJ International</i> , 2015, 55, 1684-1692.	0.6	19
21	Sulfide Transformation with Tellurium Treatment for Y15 Free-Cutting Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2284-2295.	1.0	19
22	Detection of Non-metallic Inclusions in Centrifugal Continuous Casting Steel Billets. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 1594-1612.	1.0	18
23	Pitting Corrosion of Steel Induced by Al ₂ O ₃ Inclusions. <i>Metals</i> , 2017, 7, 347.	1.0	17
24	Induced-Pitting Behaviors of MnS Inclusions in Steel. <i>High Temperature Materials and Processes</i> , 2018, 37, 1007-1016.	0.6	17
25	Understanding the Corrosion Mechanism of Spring Steel Induced by MnS Inclusions with Different Sizes. <i>Jom</i> , 2018, 70, 2513-2522.	0.9	16
26	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> , 2016, 47, 495-507.	1.0	15
27	Effects of Different Melting Technologies on the Purity of Superalloy GH4738. <i>Materials</i> , 2018, 11, 1838.	1.3	15
28	Study on Micro Segregation of High Alloy Fe-Mn-C-Al Steel. <i>Steel Research International</i> , 2019, 90, 1800546.	1.0	15
29	Dephosphorization by Double-Slag Process in Converter Steelmaking. <i>High Temperature Materials and Processes</i> , 2018, 37, 625-633.	0.6	14
30	Solid-State Reaction Between Fe-Al-Ca Alloy and Al ₂ O ₃ -CaO-FeO Oxide During Heat Treatment at 1473 K (1200 °C). <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 1348-1357.	1.0	13
31	Effect of EMBr on Flow in Slab Continuous Casting Mold and Evaluation Using Nail Dipping Measurement. <i>Steel Research International</i> , 2013, 84, 259-268.	1.0	12
32	Optimization on Reducing Slag Entrapment in 150 Å– 1270 mm Slab Continuous Casting Mold. <i>Materials</i> , 2019, 12, 1774.	1.3	12
33	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> , 2020, 51, 2298-2308.	1.0	10
34	Microstructure characteristics and mechanical properties of a novel heavy density Ni-W-Co matrix alloy prepared by VIM/VAR. <i>Journal of Materials Research and Technology</i> , 2021, 13, 2459-2468.	2.6	10
35	Mathematical modelling of fluid flow inside trumpet-shaped ladle shrouds. <i>Ironmaking and Steelmaking</i> , 2017, 44, 732-738.	1.1	9
36	Cyclic Use of Ladle Furnace Refining Slag for Desulfurization. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 274-279.	1.1	9

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37	Nucleation and Ostwald Growth of Particles in Fe-O-Al-Ca Melt. Scientific Reports, 2018, 8, 1135.	1.6	9
38	Transformation of Oxide Inclusions in Stainless Steel Containing Yttrium during Isothermal Heating at 1473 K. Metals, 2019, 9, 961.	1.0	9
39	<i>In-Situ&/i> Observation on the Agglomeration and Dispersion of Particles at the Interface of High-temperature Melts. ISIJ International, 2021, 61, 753-762.	0.6	9
40	CFD Modeling of Solid Inclusion Motion and Separation from Liquid Steel to Molten Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 2430-2440.	1.0	9
41	Effects of Surface-Modified MgO Nanoparticles on Inclusion Characteristics and Microstructure in Carbon Structural Steel. Jom, 2018, 70, 1136-1142.	0.9	8
42	Effect of Turning Amount on Metallurgical Qualities and Mechanical Properties of GH4169 Superalloy. Materials, 2019, 12, 1852.	1.3	8
43	Molecular Dynamics Simulation on Microstructure and Physicochemical Properties of Fe _x O-SiO ₂ -CaO-MgO-â€œNiOâ€œSlag in Nickel Matte Smelting under Modulating CaO Content. Minerals (Basel, Switzerland), 2020, 10, 149.	0.8	8
44	Simulation and application of submerged CO ₂ â€œO ₂ injection in EAF steelmaking: combined blowing equipment arrangement and industrial application. Ironmaking and Steelmaking, 2021, 48, 703-711.	1.1	8
45	Study on the Capillary Interaction Between Particles on the Surface of Highâ€Temperature Melts. Steel Research International, 2021, 92, 2100013.	1.0	8
46	Local orders, lattice distortions, and electronic structure dominated mechanical properties of (ZrHfTaM1M2)C (M = Nb, Ti, V). Journal of the American Ceramic Society, 2022, 105, 4260-4276.	1.9	8
47	Effects of Different Hot Working Techniques on Inclusions in GH4738 Superalloy Produced by VIM and VAR. Materials, 2018, 11, 1024.	1.3	7
48	Comparison of Multiphase Flow in a Continuous Casting Tundish Using Two Types of Industrialized Ladle Shrouds. Jom, 2018, 70, 2886-2892.	0.9	7
49	Thermal simulation experiments on scrap melting in liquid steel. Ironmaking and Steelmaking, 2020, 47, 442-448.	1.1	7
50	Physical model experiment and theoretical analysis of scrap melting process in electric arc furnace combined blowing system. Ironmaking and Steelmaking, 2020, 47, 748-756.	1.1	7
51	Evolution of oxide inclusions in stainless steel containing yttrium during thermo-mechanical treatment. Journal of Materials Research and Technology, 2020, 9, 5982-5990.	2.6	7
52	Initiation Mechanism of Localized Corrosion Induced by Al ₂ O ₃ -MnS Composite Inclusion in Low-Alloy Structural Steel. Metals, 2022, 12, 587.	1.0	7
53	The Influence of FeO on the Reaction between Feâ€Alâ€Ca Alloy and Al ₂ O ₃ â€CaOâ€FeO Oxide during Heat Treatment at 1473 K. Metals, 2017, 7, 129.	1.0	6
54	Effect of Heat-Treatment Temperature on the Interfacial Reaction Between Oxide Inclusions and Si-Mn Killed Steel. Jom, 2018, 70, 958-962.	0.9	6

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55	Numerical Investigation of Inclusion Motion at Molten Steel–Liquid Slag Interface During Ruhrstahl Heraeus (RH) Process. <i>Jom</i> , 2018, 70, 2877-2885.	0.9	6
56	Coarsening Behavior of Particles in Fe-O-Al-Ca Melts. <i>Scientific Reports</i> , 2019, 9, 3670.	1.6	6
57	Fe/SiO ₂ 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> , 2021, 52, 1463-1471.	1.0	6
58	Effect of adding yttrium on precipitation behaviors of inclusions in E690 ultra high strength offshore platform steel. <i>High Temperature Materials and Processes</i> , 2020, 39, 510-519.	0.6	6
59	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> , 2022, 894, 162464.	2.8	6
60	Removal of Zinc and Lead from Blast Furnace Dust in a Fluidized-Bed Roaster. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 441-449.	1.1	5
61	The Effect of a Dissipative Ladle Shroud on Mixing in Tundish: Mathematical and Experimental Modelling. <i>High Temperature Materials and Processes</i> , 2018, 37, 25-32.	0.6	5
62	Thermal physical properties and dephosphorisation kinetics of rare earth oxides containing slags. <i>Ironmaking and Steelmaking</i> , 2019, 46, 968-973.	1.1	5
63	Melting characteristics of steel scrap with different carbon contents in liquid steel. <i>Ironmaking and Steelmaking</i> , 2020, 47, 1087-1099.	1.1	5
64	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> , 2020, 51, 422-425.	1.0	5
65	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> , 2022, 53, 1212-1223.	1.0	5
66	Improvement of Utilization Ratio of Nanoparticles in Steel and Its Influence on Acicular Ferrite Formation. <i>Steel Research International</i> , 2017, 88, 1600471.	1.0	4
67	Flow Field and Temperature Field in a Four-Strand Tundish Heated by Plasma. <i>Metals</i> , 2021, 11, 722.	1.0	4
68	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> , 2017, 48, 3101-3108.	1.0	3
69	Evolution of Interfacial Features of MnO-SiO ₂ Type Inclusions/Steel Matrix during Isothermal Heating at Low Temperatures. <i>High Temperature Materials and Processes</i> , 2019, 38, 347-353.	0.6	3
70	Effect of slag composition on the cleanliness of drill rod steel. <i>Ironmaking and Steelmaking</i> , 2019, 46, 416-423.	1.1	3
71	Phosphorus distribution between rare earth oxides containing slags and ferromanganese alloy. <i>Ironmaking and Steelmaking</i> , 2019, 46, 485-490.	1.1	3
72	Characteristics and Evolution Behavior of Non-metallic Inclusions in a Novel Ni–W–Co Heavy-Density Alloy Manufactured by VIM/VAR. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 760-769.	1.0	3

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73	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, 2022, 53, 1474-1483.	1.0	3
74	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. Metals, 2017, 7, 223.	1.0	2
75	Inclusion characteristics and microstructure properties under different cooling conditions in steel with nanoparticles addition. Ironmaking and Steelmaking, 2018, 45, 611-617.	1.1	2
76	Effects of Heat-Treatment Temperature on the Microstructure and Mechanical Properties of Steel by MgO Nanoparticle Additions. Materials, 2018, 11, 1707.	1.3	2
77	Synthesis of Core-Shell MgO Alloy Nanoparticles for Steelmaking. Coatings, 2018, 8, 161.	1.2	2
78	Reoxidation of Al-Killed Steel by Cr ₂ O ₃ from Tundish Cover Flux. Metals, 2019, 9, 554.	1.0	2
79	Optimising inclusion and toughening the heat-affected zone of ship plate steel with MgO nanoparticles. Materials Science and Technology, 2020, 36, 1574-1586.	0.8	2
80	Measurement of Surface Velocity in a 150 mm Å— 1270 mm Slab Continuous-Casting Mold. Metals, 2020, 10, 428.	1.0	2
81	Site Occupation and Structural Phase Transformation of the (010) Antiphase Boundary in Boron-Modified L12 Ni ₃ Al. Jom, 2021, 73, 2285-2292.	0.9	2
82	Dephosphorization of hot metal using rare earth oxide-containing slags. High Temperature Materials and Processes, 2020, 39, 520-526.	0.6	2
83	Effect of <i>in situ</i> observation of cooling rates on acicular ferrite nucleation. High Temperature Materials and Processes, 2022, 41, 181-190.	0.6	2
84	Effects of Withdrawal Rate on the Microstructure of Directionally Solidified GH4720Li Superalloys. Materials, 2019, 12, 771.	1.3	1
85	Numerical and Physical Modeling of Liquid Inclusionâ€™s Behaviors in Steel-Slag Two-Phase System. Jom, 2022, 74, 1568-1577.	0.9	1
86	Application of Graphite Electrode Plasma Heating Technology in Continuous Casting. Materials, 2022, 15, 2590.	1.3	1
87	Experimental Study on the Production of Nitrogen-Bearing Stainless Steel by Injecting Nitrogen Gas. , 2012, , 858-866.		0
88	Interaction between Molten Steel, Alumina Lining Refractory and Slag Phase. Journal for Manufacturing Science and Production, 2013, 13, 133-143.	0.1	0
89	Study on Dezincification and De-Lead of Blast Furnace Dust by Fluidized Reduction Experiment. , 0, , 675-683.		0
90	Optimizing Slag Content to Control Ds-Type Inclusions in 10B21 Cold Heading Steel. Minerals (Basel,) Tj ETQq0 0 0,rgBT /Overlock 10 T	0.8	0

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91	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.	1.0	0