Qing Liu

List of Publications by Year
in descending order

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73 papers	1,230 citations	471509 17 h-index	454955 30 g-index
75 all docs	75 docs citations	75 times ranked	970 citing authors

#	Article	IF	Citations
1	Bioavailability and biomagnification of organophosphate esters in the food web of Taihu Lake, China: Impacts of chemical properties and metabolism. Environment International, 2019, 125, 25-32.	10.0	121
2	Synergistic adsorption of phosphorus by iron in lanthanum modified bentonite (PhoslockÂ®): New insight into sediment phosphorus immobilization. Water Research, 2018, 134, 32-43.	11.3	98
3	Estimating renal and hepatic clearance rates of organophosphate esters in humans: Impacts of intrinsic metabolism and binding affinity with plasma proteins. Environment International, 2020, 134, 105321.	10.0	70
4	Traditional uses, ten-years research progress on phytochemistry and pharmacology, and clinical studies of the genus Scutellaria. Journal of Ethnopharmacology, 2021, 265, 113198.	4.1	64
5	Genus Paeonia: A comprehensive review on traditional uses, phytochemistry, pharmacological activities, clinical application, and toxicology. Journal of Ethnopharmacology, 2021, 269, 113708.	4.1	63
6	Reactive oxygen species trigger NF-ÎºB-mediated NLRP3 inflammasome activation involvement in low-dose CdTe QDs exposure-induced hepatotoxicity. Redox Biology, 2021, 47, 102157.	9.0	42
7	The Control and Prediction of Endâ€Point Phosphorus Content during BOF Steelmaking Process. Steel Research International, 2014, 85, 599-606.	1.8	38
8	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.	2.1	38
9	Insights into Uptake, Translocation, and Transformation Mechanisms of Perfluorophosphinates and Perfluorophosphonates in Wheat (Triticum aestivum L.). Environmental Science & Technology, 2020, 54, 276-285.	10.0	35
10	Physical and Mathematical Modeling of Multiphase Flows in a Converter. ISIJ International, 2018, 58, 573-584.	1.4	31
11	A process model for BOF process based on bath mixing degree. International Journal of Minerals, Metallurgy and Materials, 2010, 17, 715-722.	4.9	28
12	Effect of Electromagnetic Stirring on Molten Steel Flow and Solidification in Bloom Mold. Journal of Iron and Steel Research International, 2014, 21, 1095-1103.	2.8	28
13	Prediction Model of End-point Manganese Content for BOF Steelmaking Process. ISIJ International, 2012, 52, 1585-1590.	1.4	26
14	Phosphorus Deficiency Promoted Hydrolysis of Organophosphate Esters in Plants: Mechanisms and Transformation Pathways. Environmental Science & Technology, 2021, 55, 9895-9904.	10.0	25
15	Gut Microbiota: Therapeutic Targets of Ginseng Against Multiple Disorders and Ginsenoside Transformation. Frontiers in Cellular and Infection Microbiology, 2022, 12, 853981.	3.9	25
16	Numerical Analysis of the Influences of Operational Parameters on the Braking Effect of EMBr in a CSP Funnel-Type Mold. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 295-306.	2.1	24
17	Molecular identification of Pm12-carrying introgression lines in wheat using genomic and EST-SSR markers. Euphytica, 2007, 158, 95-102.	1.2	20
18	Influence of cooling rate on secondary phase precipitation and proeutectoid phase transformation of micro-alloyed steel containing vanadium. Metals and Materials International, 2016, 22, 349-355.	3.4	18

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19	Pitting Corrosion of Steel Induced by Al2O3 Inclusions. Metals, 2017, 7, 347.	2.3	17
20	Screening of acetylcholinesterase inhibitors and characterizing of phytochemical constituents from Dichocarpum auriculatum (Franch.) W.T. Wang & P. K. Hsiao through UPLC-MS combined with an acetylcholinesterase inhibition assay in vitro. Journal of Ethnopharmacology, 2019, 245, 112185.	4.1	17
21	Prediction model of end-point phosphorus content for BOF based on monotone-constrained BP neural network. Journal of Iron and Steel Research International, 2022, 29, 751-760.	2.8	17
22	Optimization of Thermal Soft Reduction on Continuous-Casting Billet. ISIJ International, 2020, 60, 106-113.	1.4	16
23	Design of platinum single-atom doped metal nanoclusters as efficient oxygen reduction electrocatalysts by coupling electronic descriptor. Nano Research, 2022, 15, 7016-7025.	10.4	15
24	Comparison and integration of final electromagnetic stirring and thermal soft reduction on continuous casting billet. Journal of Iron and Steel Research International, 2021, 28, 160-167.	2.8	14
25	Effect of Bottom Blowing Mode on Fluid Flow and Mixing Behavior in Converter. Metals, 2022, 12, 117.	2.3	14
26	Evolution of Control Models for Secondary Cooling in Continuous Casting Process of Steel. Steel Research International, 2011, 82, 1220-1227.	1.8	13
27	Comparison of the water quality of the surface microlayer and subsurface water in the Guangzhou segment of the Pearl River, China. Journal of Chinese Geography, 2014, 24, 475-491.	3.9	13
28	Effect of phosphorus competition on arsenic bioavailability in dry and flooded soils: comparative study using diffusive gradients in thin films and chemical extraction methods. Journal of Soils and Sediments, 2019, 19, 1830-1838.	3.0	12
29	Effect of Impact Cavity Shape Induced by Supersonic Oxygen Jet on the Dynamic Characteristics of Molten Bath in Converter. Steel Research International, 2021, 92, 2100179.	1.8	12
30	End-point Temperature Preset of Molten Steel in the Final Refining Unit Based on an Integration of Deep Neural Network and Multi-process Operation Simulation. ISIJ International, 2021, 61, 2100-2110.	1.4	12
31	Intracellular reactive oxygen species trigger mitochondrial dysfunction and apoptosis in cadmium telluride quantum dots-induced liver damage. NanoImpact, 2022, 25, 100392.	4.5	12
32	â€œReductionâ€•responsive thymine-conjugated biodynamers: synthesis and solution properties. Polymer Chemistry, 2015, 6, 3934-3941.	3.9	11
33	Interfacial reaction between oxide inclusion and steel matrix deoxidized by Si and Mn at 1473ÂK. Journal of Iron and Steel Research International, 2018, 25, 1-8.	2.8	11
34	Prediction of Central Carbon Segregation in Continuous Casting Billet Using A Regularized Extreme Learning Machine Model. Metals, 2019, 9, 1312.	2.3	11
35	Sulphide capacity prediction of CaOâ€“SiO₂â€“MgOâ€“Al₂O₃ slag system by using regularized extreme learning machine. Ironmaking and Steelmaking, 2021, 48, 275-283.	2.1	11
36	Differential Calculation Model for Liquidus Temperature of Steel. Steel Research International, 2011, 82, 164-168.	1.8	10

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37	Scheduling Model for the Practical Steelmaking-continuous Casting Production and Heuristic Algorithm Based on the Optimization of â€œFurnace-caster Matchingâ€•Mode. ISIJ International, 2020, 60, 1213-1224.	1.4	10
38	Inhibitory potential of 4-hexylresorcinol against Î±-glucosidase and non-enzymatic glycation: Activity and mechanism. Journal of Bioscience and Bioengineering, 2021, 131, 241-249.	2.2	10
39	Rhizospheric pore-water content predicts the biochar-attenuated accumulation, translocation, and toxicity of cadmium to lettuce. Ecotoxicology and Environmental Safety, 2021, 208, 111675.	6.0	10
40	Influence of Secondary Cooling Mode on Solidification Structure and Macro-segregation Behavior for High-carbon Continuous Casting Bloom. High Temperature Materials and Processes, 2017, 36, 741-753.	1.4	9
41	Optimal Charge Planning Model of Steelmaking Based on Multi-Objective Evolutionary Algorithm. Metals, 2018, 8, 483.	2.3	9
42	Comparison of Transverse Uniform and Non-Uniform Secondary Cooling Strategies on Heat Transfer and Solidification Structure of Continuous-Casting Billet. Metals, 2019, 9, 543.	2.3	9
43	Effect of Slag Layer on the Multiphase Interaction in a Converter. Jom, 2019, 71, 754-763.	1.9	9
44	Behaviour of oxide inclusions and sulphur in â€˜two-stage basicity controlâ€™ refining method of Si-killed spring steel. Ironmaking and Steelmaking, 2021, 48, 466-476.	2.1	9
45	Fine Production in Steelmaking Plants. Materials Today: Proceedings, 2015, 2, S348-S357.	1.8	8
46	Fine Description of Multi-Process Operation Behavior in Steelmaking-Continuous Casting Process by a Simulation Model with Crane Non-Collision Constraint. Metals, 2019, 9, 1078.	2.3	8
47	Application of a Novel Chamfered Mold to Suppress Corner Transverse Cracking of Micro-Alloyed Steel Slabs. Metals, 2020, 10, 1289.	2.3	8
48	Effect of Cerium on the Microstructure and Inclusion Evolution of C-Mn Cryogenic Vessel Steels. Materials, 2021, 14, 5262.	2.9	7
49	Mathematical modelling and plant trial on slagging regime in a ladle furnace for high-efficiency desulphurization. Ironmaking and Steelmaking, 2021, 48, 1123-1132.	2.1	6
50	Influence of M-EMS on Fluid Flow and Initial Solidification in Slab Continuous Casting. Materials, 2021, 14, 3681.	2.9	6
51	Theoretical Study on the Electronic Structure and Magnetic Properties Regulation of Janus Structure of Mâ€™MCO2 2D MXenes. Nanomaterials, 2022, 12, 556.	4.1	6
52	Three new conjugated polymers based on benzo[2,1-b:3,4-bâ€²]dithiophene: synthesis, characterization, photoinduced charge transfer and theoretical calculation studies. Polymer Chemistry, 2012, 3, 2244.	3.9	5
53	Removal of Zinc and Lead from Blast Furnace Dust in a Fluidized-Bed Roaster. Journal of Sustainable Metallurgy, 2017, 3, 441-449.	2.3	5
54	Hot deformation behavior and constitutive modelling of low carbon micro-alloyed steel YQ450NQR1 during isothermal compression. Mechanics of Materials, 2020, 148, 103430.	3.2	5

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55	A New Cooling Strategy in Curved Continuous Casting Process of Vanadium Micro-alloyed YQ450NQR1 Steel Bloom Combining Experimental and Modeling Approach. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3945-3955.	2.2	5
56	Stab resistance of flexible composite reinforced with warp-knitted fabric like scale structure at quasi-static loading. Journal of Industrial Textiles, 2022, 51, 7983S-7998S.	2.4	5
57	Safety assessment of graphene oxide and microcystin-LR complex: a toxicological scenario beyond physical mixture. Particle and Fibre Toxicology, 2022, 19, 26.	6.2	5
58	Internal Crack Prediction of Continuous Casting Billet Based on Principal Component Analysis and Deep Neural Network. Metals, 2021, 11, 1976.	2.3	5
59	Influence of Vâ€“N Microalloying on the High-Temperature Mechanical Behavior and Net Crack Defect of High Strength Weathering Steel. High Temperature Materials and Processes, 2016, 35, 575-582.	1.4	4
60	Catalytic activity, thermal stability and structural evolution of PdCu single-atom alloy catalysts: the effects of size and morphology. RSC Advances, 2021, 12, 62-71.	3.6	4
61	Effect of Ultrasonic Treatment on the Solidification Structure of High Carbon Steel Containing Rare Earth Elements. Steel Research International, 2008, 79, 358-363.	1.8	3
62	First-principles calculation of Aun@(ZnS)42 (nâ€‰=â€‰6â€“16) hetero-nanostructure system. Rare Metals, 2020, 39, 1165-1173.	7.1	3
63	Effect of blowing parameters on bath mixing efficiency during basic oxygen furnace steelmaking process. Engineering Reports, 2021, 3, e12359.	1.7	3
64	Quantitative evaluation of multi-process collaborative operation in steelmaking-continuous casting sections. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1353-1366.	4.9	3
65	Genetic optimization of ladle scheduling in empty-ladle operation stage based on temperature drop control. Journal of Iron and Steel Research International, 2022, 29, 563-574.	2.8	2
66	How UV radiation and pH alternation impact graphene oxide mediated environmental toxicant adsorption and resulting safety characteristics â€“ A toxicology study beyond a classic carrier effect. Chemosphere, 2022, 300, 134627.	8.2	2
67	Theoretical Study on Improving the Catalytic Activity of a Tungsten Carbide Surface for Hydrogen Evolution by Nonmetallic Doping. Catalysts, 2020, 10, 1272.	3.5	1
68	Optimization of VD Refining Slag and Control of Non-metallic Inclusions for 55SiCrA Spring Steel. Minerals, Metals and Materials Series, 2022, , 445-455.	0.4	1
69	Comparative Genomic Analysis Reveals Intestinal Habitat Adaptation of LigilactobacillusÂequi Rich in Prophage and Degrading Cellulase. Molecules, 2022, 27, 1867.	3.8	1
70	Epoxy monoacrylate synthesis and photopolymerization in a thiol-ene/cationic hybrid system. Journal of Polymer Research, 2012, 19, 1.	2.4	0
71	Evolution of planning and scheduling for steel plants based on simulation-based optimization. , 2014, , .		0
72	A Communication Reliability Evaluation System for Coast Radio Station Using AHP. , 2018, , .		0

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73	Study on the Reblow Model for Medium-High Carbon Steel Melting by Converter. High Temperature Materials and Processes, 2018, 37, 973-979.	1.4	0