

# Wenqiang Sun

## List of Publications by Year in descending order

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48  
papers

1,190  
citations

394286

19  
h-index

377752

34  
g-index

49  
all docs

49  
docs citations

49  
times ranked

837  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical and chemical characterization of fugitive particulate matter emissions of the iron and steel industry. <i>Atmospheric Pollution Research</i> , 2022, 13, 101272.	1.8	25
2	A carbon flow tracing and carbon accounting method for exploring CO <sub>2</sub> emissions of the iron and steel industry: An integrated material-“energy”-carbon hub. <i>Applied Energy</i> , 2022, 309, 118485.	5.1	63
3	Allocation of Emissions Permit for China's Iron and Steel Industry in an Imperfectly Competitive Market: A Nash Equilibrium DEA Method. <i>IEEE Transactions on Engineering Management</i> , 2021, 68, 548-561.	2.4	13
4	Quantifying the Flexibility From Industrial Steam Systems for Supporting the Power Grid. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 313-322.	4.6	18
5	Evaluation and Improvement of Energy Utilization Efficiency in Typical Iron and Steel Smelting Route Based on Input-Use-End Model. <i>Energy Technology</i> , 2020, 8, 1901230.	1.8	8
6	Co-removal of CO <sub>2</sub> and particulate matter from industrial flue gas by connecting an ammonia scrubber and a granular bed filter. <i>Journal of Cleaner Production</i> , 2020, 257, 120511.	4.6	27
7	Material and energy flows of the iron and steel industry: Status quo, challenges and perspectives. <i>Applied Energy</i> , 2020, 268, 114946.	5.1	133
8	Material-“energy”-emission nexus in the integrated iron and steel industry. <i>Energy Conversion and Management</i> , 2020, 213, 112828.	4.4	64
9	Hybrid event-, mechanism- and data-driven prediction of blast furnace gas generation. <i>Energy</i> , 2020, 199, 117497.	4.5	30
10	An evaluation of greenhouse gas emission efficiency in China's industry based on SFA. <i>Science of the Total Environment</i> , 2019, 690, 1190-1202.	3.9	69
11	Review of evaluation methodologies and influencing factors for energy efficiency of the iron and steel industry. <i>International Journal of Energy Research</i> , 2019, 43, 5659-5677.	2.2	28
12	Environmental impact assessment of wastewater discharge with multi-pollutants from iron and steel industry. <i>Journal of Environmental Management</i> , 2019, 245, 210-215.	3.8	51
13	Assessment of multi-air emissions: Case of particulate matter (dust), SO <sub>2</sub> , NO and CO <sub>2</sub> from iron and steel industry of China. <i>Journal of Cleaner Production</i> , 2019, 232, 350-358.	4.6	76
14	Development of a Novel Shaft Dryer for Coal-Based Green Needle Coke Drying Process. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3301.	1.3	5
15	Emission characterization of particulate matter in the ironmaking process. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 282-292.	1.2	10
16	Chlorine corrosion of blast furnace gas pipelines: Analysis from thermal perspective. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2019, 55, 197-208.	0.3	10
17	CO <sub>2</sub> capture from reheating furnace based on the sensible heat of continuous casting slabs. <i>International Journal of Energy Research</i> , 2018, 42, 2273-2283.	2.2	29
18	Experimental study on bag filtration enhanced by magnetic aggregation of fine particles from hot metal casting process. <i>Powder Technology</i> , 2018, 327, 255-266.	2.1	7

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19	Material Metabolism and Environmental Emissions of BF-BOF and EAF Steel Production Routes. Mineral Processing and Extractive Metallurgy Review, 2018, 39, 50-58.	2.6	24
20	Analysis and Optimization of Open Circulating Cooling Water System. Water (Switzerland), 2018, 10, 1592.	1.2	8
21	Energy and exergy recovery from exhaust hot water using organic Rankine cycle and a retrofitted configuration. Journal of Central South University, 2018, 25, 1464-1474.	1.2	21
22	Dynamic allocation of surplus by-product gas in a steel plant by dynamic programming with a reduced state space algorithm. Engineering Optimization, 2018, 50, 1578-1592.	1.5	27
23	Pretreatment of metallurgical sewage via vacuum distillation driven by low-temperature exhausted gas from steel plants. Journal of Iron and Steel Research International, 2018, 25, 291-297.	1.4	1
24	Optimal allocation of surplus gas and suitable capacity for buffer users in steel plant. Applied Thermal Engineering, 2017, 115, 586-596.	3.0	18
25	Exergy efficiency analysis of ORC (Organic Rankine Cycle) and ORC-based combined cycles driven by low-temperature waste heat. Energy Conversion and Management, 2017, 135, 63-73.	4.4	175
26	Assessment of particulate emissions from a sinter plant in steelmaking works in China. Environmental Monitoring and Assessment, 2017, 189, 368.	1.3	11
27	Operation Optimization of Steam Accumulators as Thermal Energy Storage and Buffer Units. Energies, 2017, 10, 17.	1.6	16
28	Thermal Analysis of a Thermal Energy Storage Unit to Enhance a Workshop Heating System Driven by Industrial Residual Water. Energies, 2017, 10, 219.	1.6	9
29	Electro- or Turbo-Driven? Analysis of Different Blast Processes of Blast Furnace. Processes, 2016, 4, 28.	1.3	5
30	Design and thermodynamic analysis of a flash power system driven by process heat of continuous casting grade steel billet. Energy, 2016, 116, 94-101.	4.5	20
31	Particulate Matter Emission in Iron and Steelmaking Plants. , 2016, , 355-372.		0
32	A Novel Self-Heated Roasting Technology for Molybdenum Concentrate. Rare Metal Materials and Engineering, 2015, 44, 2618-2622.	0.8	1
33	Combustibility of biomass materials. Materials Research Innovations, 2015, 19, S8-733-S8-739.	1.0	1
34	Optimization and scheduling of byproduct gas system in steel plant. Journal of Iron and Steel Research International, 2015, 22, 408-413.	1.4	20
35	Multi-boiler System Optimization in Integrated Steelworks Based on Decomposition and Coordination Method. Journal of Iron and Steel Research International, 2015, 22, 226-231.	1.4	2
36	Flight Dynamics and Sensible Heat Recovery of Granulated Blast Furnace Slag. Open Fuels and Energy Science Journal, 2015, 8, 356-360.	0.2	3

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37	Optimal dynamic dispatch of surplus gas among buffer boilers in steel plant. Journal of Central South University, 2013, 20, 2459-2465.	1.2	4
38	Plant-Wide Supply-Demand Forecast and Optimization of Byproduct Gas System in Steel Plant. Journal of Iron and Steel Research International, 2013, 20, 1-7.	1.4	15
39	Advances in Energy Conservation of China Steel Industry. Scientific World Journal, The, 2013, 2013, 1-8.	0.8	15
40	Influence of Steam Recovery and Consumption on Energy Consumption per Ton of Steel. Energy Procedia, 2012, 14, 566-571.	1.8	8
41	Decomposition analysis of energy-related carbon dioxide emissions in the iron and steel industry in China. Frontiers of Environmental Science and Engineering, 2012, 6, 265-270.	3.3	31
42	Development of Supply-Demand Balance and Distribution Software of Gas System for Iron and Steel Industry. Procedia Engineering, 2011, 15, 5143-5147.	1.2	2
43	Change in Carbon Dioxide (CO <sub>2</sub> ) Emissions From Energy Use in China's Iron and Steel Industry. Journal of Iron and Steel Research International, 2011, 18, 31-36.	1.4	67
44	Construction of Energy Management and Control Information System in Iron and Steel Enterprise. Communications in Computer and Information Science, 2011, , 161-166.	0.4	1
45	Advanced Low-Carbon Technologies for Steel Manufacturing Process. Applied Mechanics and Materials, 2010, 44-47, 8-12.	0.2	1
46	Specific Energy Consumption Analysis Model and Its Application in Typical Steel Manufacturing Process. Journal of Iron and Steel Research International, 2010, 17, 33-37.	1.4	17
47	Research on Effective Utilization Degree of Energy in Batch-Type Furnace Based on Thermal Value Theory. , 2009, , .		1
48	Technique of Heating Process of Stainless Steel. Applied Mechanics and Materials, 0, 44-47, 2157-2161.	0.2	0