Oxana Logunova

List of Publications by Year
in descending order

49 papers	215 citations	1307594 7 h-index	1058476 14 g-index
51 all docs	51 docs citations	51 times ranked	141 citing authors

#	Article	IF	Citations
1	Improving the quality of continuously cast slabs: by means of the pinch roll drive of the horizontal part of a continuous casting machine. International Journal of Advanced Manufacturing Technology, 2018, 96, 1-9.	3.0	66
2	Automatic system for intelligent support of continuous cast billet production control processes. International Journal of Advanced Manufacturing Technology, 2014, 74, 1407-1418.	3.0	25
3	Results of a pilot experiment on monitoring the condition of buildings and structures using unmanned aerial vehicles. IOP Conference Series: Earth and Environmental Science, 2021, 939, 012030.	0.3	15
4	Internal-defect formation and the thermal state of continuous-cast billet. Steel in Translation, 2008, 38, 849-852.	0.3	14
5	Energy-saving optimal control over heating of continuous cast billets. International Journal of Advanced Manufacturing Technology, 2015, 79, 1797-1803.	3.0	14
6	Electrical drives of continuous casting machine withdrawal rolls: a model and practical implementation of limitations on longitudinal forces in billets. International Journal of Advanced Manufacturing Technology, 2020, 108, 1-10.	3.0	14
7	Results of experimental tests of building samples. IOP Conference Series: Earth and Environmental Science, 2021, 939, 012031.	0.3	8
8	Multicriterial optimization of the batch composition for steel-smelting arc furnaces. Steel in Translation, 2013, 43, 34-38.	0.3	7
9	Data Acquisition and Preparation Methods for Continuously Cast Billets Quality Analysis Software. Applied Mechanics and Materials, 0, 110-116, 3557-3562.	0.2	6
10	Intellectual support in the structuring of batch within an arc furnace. Steel in Translation, 2016, 46, 733-738.	0.3	5
11	Influence of Magnetic Field on Formation of Short Range Order Regions in Liquid Metals: Fluctuation Hypothesis. Key Engineering Materials, 2018, 777, 316-321.	0.4	4
12	Strand withdrawal rate stabilization: via the electric drive of the secondary cooling zone of a continuous casting machine. International Journal of Advanced Manufacturing Technology, 2017, 89, 1975-1987.	3.0	3
13	Modelling the barrel body wear of the backup roll: mathematical model and software implementation. International Journal of Advanced Manufacturing Technology, 2018, 97, 1363-1370.	3.0	3
14	Optimizing Extremal Control of Power Consumption of an Electric Arc Furnace: A Method for Selecting an Efficiency Criterion and Its Application. Jom, 2020, 72, 3812-3817.	1.9	3
15	Analysis of Efficiency of the Existing Quality Assessment System for Materials, Products, and Structures at Hazardous Production Facilities. Vestnik of Nosov Magnitogorsk State Technical University, 2021, 19, 103-111.	0.2	3
16	Estimation of The Surface Quality Of Galvanazed Steel: The Method Of Decomposing The Image Into Layers. , 2021, , .		3
17	Stabilizing the Residual Contents of Elements in Steel by Using Alternative Materials in the Metallic Charge of an Arc Steelmaking Furnace. Metallurgist, 2014, 58, 299-305.	0.6	2
18	Genetic algorithm modification. , 2018, , .		2

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19	Energy-Saving Extremal Control of an Electrical Mode for Electric Arc Units. Jom, 2019, 71, 342-348.	1.9	2
20	Automation of Scientific Research of Flat Surface Discontinuities: Structural Solution of a Hardware-Software Complex. Electrotechnical Systems and Complexes, 2020, , 54-59.	0.2	2
21	Software and Structure of Intellectual Support System for Decision-Making for Cold-Rolled Steel Surface Quality Assessment Management System. Electrotechnical Systems and Complexes, 2016, , 45-51.	0.2	2
22	On the aspect of implementing solutions for information support of industrial plant control systems. International Journal of Advanced Manufacturing Technology, 2016, 85, 1779-1791.	3.0	1
23	Intelligent Support System of Steel Technical Preparation in an Arc Furnace: Functional Scheme of Interactive Builder of the Multi Objective Optimization Problem. IOP Conference Series: Materials Science and Engineering, 2017, 287, 012009.	0.6	1
24	Optimization of Nozzle Layout in Continuous Casting Machine. Bulletin of the South Ural State University, Series: Mathematical Modelling, Programming and Computer Software, 2016, 9, 114-122.	0.4	1
25	REVERSE TIGHLY-COUPLED MANAGEMENT INFORMATION SYSTEM FOR ELECTRIC FURNACE SHOP CONTINUOUSLY CAST BLANKS PRODUCTION ORGANIZATION. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2012, 55, 55-60.	0.3	1
26	Mathematical Models for Investigation of the Heat Condition of Objects and Heat Processes Control. Electrotechnical Systems and Complexes, 2019, , 25-34.	0.2	1
27	Forecasting of Image Processing Time using Deterministic Methods. International Journal of Applied Physics and Mathematics, 2012, , 172-174.	0.3	1
28	Improve the Management Pay Off Machine's Electric Drive Control System of Mill for Manufacturing of Steel Reinforcement. Vestnik ÃˌÅ¾no-UralÊ¹skogo Gosudarstvennogo Universiteta: SeriÃ¢ Ã‡nergetika, 2015, 15, 77-83.	1.4	1
29	MATHEMATICAL MODEL AND RESULTS OF A NUMERICAL SWARM EXPERIMENT ON THE EFFECT OF A MAGNETIC FIELD ON THE FORMATION OF SHORT-RANGE ORDER REGIONS IN METALLIC MELTS. Electrotechnical Systems and Complexes, 2017, , 61-66.	0.2	1
30	Selecting the batch composition in arc furnaces for energy-saving operation. Steel in Translation, 2014, 44, 363-367.	0.3	0
31	Improvement of electric drive of withdrawal and straightening unit in continuous casting machine. , 2016, , .		0
32	Distribution of electric drives of pulling rollers on the continuous casting machine: simulation and experiment. International Journal of Advanced Manufacturing Technology, 2018, 95, 375-386.	3.0	0
33	Some notes to the issue of the mathematical potential recovery model in Borg–Levinson inverse problem. Ricerche Di Matematica, 2020, 69, 177-185.	1.0	0
34	The Method of Efficiency Definition of New Functional Task in Electric Arc Furnace Control System. IOP Conference Series: Materials Science and Engineering, 2020, 718, 012011.	0.6	0
35	High-Performance Automated Optimal Extremal Control of a Material Crushing Process. , 2020, , .		0
36	Experience in Defect Formation on Examination Models for Certifying Personnel. Smart Innovation, Systems and Technologies, 2021, , 1249-1255.	0.6	0

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37	Process Control Systems Based on Predictive Analytics: Design. Electrotechnical Systems and Complexes, 2021, , 58-64.	0.2	0
38	Centralized Control System of Flotation Department: Axiomatic Approach. Electrotechnical Systems and Complexes, 2021, , 61-67.	0.2	0
39	Data acquisition, preparation and processing methodsby means of continuously-casted billets'quality analysis software. International Journal of Applied Physics and Mathematics, 2011, , 106-111.	0.3	0
40	DISTRIBUTION METHOD OF WITHDRAWAL ROLL ELECTRIC DRIVES AT CONTINUOUS CASTING MACHINE. Electrotechnical Systems and Complexes, 2017, , 4-12.	0.2	0
41	Software and Math Modeling of Roll Barrel Wear. Electrotechnical Systems and Complexes, 2017, , 59-65.	0.2	0
42	Application of Genetic Algorithm for Optimization Problem in the Structuring of Charge Materials in an Electric Arc Furnace. Electrotechnical Systems and Complexes, 2018, , 63-69.	0.2	0
43	Method of Effective Organization of Specialized Information Support for Automated Control System of Technological Processes. Electrotechnical Systems and Complexes, 2018, , 73-81.	0.2	0
44	Diagnostics and Forecasting of Defects in Rotation Details. Lecture Notes in Mechanical Engineering, 2019, , 1225-1231.	0.4	0
45	Information Storage of Metallurgical Enterprises: Transformation of the Structure. Electrotechnical Systems and Complexes, 2019, , 52-57.	0.2	0
46	Intelligent Support System of Batch Selection for Electric Arc Furnace: Consolidation of Empirical and Expert Information. Lecture Notes in Electrical Engineering, 2020, , 66-73.	0.4	0
47	Mathematical Modeling of the Magnetic Field Effect on Molten Iron Crystallization. Key Engineering Materials, 0, 861, 519-523.	0.4	0
48	DIAGNOSIS OF THE ELECTRIC DRIVE OF THE DISCHARGE ROLLER CONVEYOR OF A WIDE-STRIP HOT MILL. Vestnik Ã›Å¾no-UralÊ¹skogo Gosudarstvennogo Universiteta: SeriÃ¢ Ãˆnergetika, 2022, 22, 78-88.	1.4	0
49	An Intelligent Decision Support System for Assessing the Quality of Buildings and Structures at Hazardous Industrial Facilities: Determining the Trajectory of the Unmanned Aircraft. Vestnik of Nosov Magnitogorsk State Technical University, 2022, 20, 50-60.	0.2	0