

# Jan Terpak

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

402  
citations

2148532

4  
h-index

1526636

10  
g-index

44  
all docs

44  
docs citations

44  
times ranked

462  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Analysis of the Influence of Input Parameters on the Accuracy of Temperature Model in the Steelmaking Process. , 2022, , .		0
2	Comparison of Different Approaches to the Creation of a Mathematical Model of Melt Temperature in an LD Converter. Processes, 2022, 10, 1378.	1.3	3
3	The Mathematical Model for Indirect Measurement of Carbon Concentration in the Steelmaking Process and its Utilization in Process Control. , 2021, , .		1
4	MODELING OF MATERIAL BALANCE FROM THE EXPERIMENTAL UCG. Acta Polytechnica, 2020, 60, 391-399.	0.3	4
5	The Mathematical Model for Indirect Measurement of Temperature in the Steel-Making Process. , 2020, , .		5
6	Endpoint Prediction of Basic Oxygen Furnace Steelmaking Based on Gradient of Relative Decarburization Rate. , 2020, , .		4
7	Application of Support Vector Regression for Data-Driven Modeling of Melt Temperature and Carbon Content in LD Converter. , 2019, , .		9
8	An Advanced Method of Recognizing the State of the Technological Process in Technical Diagnostics. , 2019, , .		0
9	Utilization of the Mathematical Model of the Converter Process for the Sensitivity Analysis. , 2019, , .		5
10	Fractional Calculus as a Simple Tool for Modeling and Analysis of Long Memory Process in Industry. Mathematics, 2019, 7, 511.	1.1	28
11	Fractional heat conduction models and their applications. , 2019, , 225-246.		0
12	THERMOCHEMICAL CALCULATIONS USING SERVICEORIENTED ARCHITECTURE IN THE WEB SERVICE FORM. Acta Polytechnica, 2018, 58, 26.	0.3	0
13	The modelling of processes in the area of the raw material processing using service oriented architecture. , 2017, , .		2
14	Numerical solution for time fractional-order diffusion-wave equation using explicit finite difference method in web service form. , 2017, , .		2
15	Toolboxes and programs for fractional-order system identification, modeling, simulation, and control. , 2016, , .		8
16	Mathematical models creation using orchestration and choreography of web services. , 2016, , .		3
17	The utilization of the service oriented architecture for creating the model of cooling the material. , 2016, , .		0
18	Fractional Heat Conduction Models and Thermal Diffusivity Determination. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	10

#	ARTICLE	IF	CITATIONS
19	Heat conduction modeling by using fractional-order derivatives. Applied Mathematics and Computation, 2015, 257, 365-373.	1.4	49
20	Draft for extension and amendment ThermoChemDC web service. , 2015, , .		1
21	The modeling of heat conduction using integer-and fractional-order derivatives. , 2014, , .		0
22	The proposal of web service for support of specific thermochemical calculations. , 2014, , .		2
23	Application of PID retuning method for laboratory feedback control system incorporating FO dynamics. , 2013, , .		5
24	Posicast control of a class of fractional-order processes. Open Physics, 2013, 11, .	0.8	1
25	Usage of the heat conduction model for the experimental determination of thermal diffusivity. , 2013, , .		0
26	On the mathematical properties of generalized fractional-order two-port networks using hybrid parameters. , 2013, , .		5
27	Generation of form's input elements select and radio type using web service. , 2013, , .		1
28	Analogue Realization of Fractional-Order Dynamical Systems. Entropy, 2013, 15, 4199-4214.	1.1	212
29	IDENTIFICATION OF FRACTIONAL-ORDER DYNAMICAL SYSTEMS BASED ON NONLINEAR FUNCTION OPTIMIZATION. International Journal of Pure and Applied Mathematics, 2013, 89, .	0.2	2
30	Graphic presentation of selected thermochemical properties of substances in Matlab using service oriented architecture. , 2013, , .		1
31	A METHOD FOR INCORPORATING FRACTIONAL-ORDER DYNAMICS THROUGH PID CONTROL SYSTEM RETUNING. International Journal of Pure and Applied Mathematics, 2013, 86, .	0.2	4
32	Simulation model for analisis of thermal processes in thermo-insulating food packaging. , 2012, , .		3
33	Mathematical model of gasification and combustion of biomass. , 2012, , .		1
34	Selected thermochemical properties of substances and their graphic web presentation. , 2012, , .		3
35	Software support for modelling of heat transfer by convection. , 2012, , .		0
36	Comparison of the electronic realization of the fractional-order system and its model. , 2012, , .		11

#	ARTICLE	IF	CITATIONS
37	MATLAB½INTERFACE½FOR½WEB½SERVICE½PROVIDING½THE½THERMOCHEMICAL½DATA. , 2012, , .		0
38	Modelling of phase transition by the heating. , 2011, , .		3
39	Comparison a simulation model of heat exchanger with real equipment. , 2011, , .		0
40	Comparison of the methods for the calculation of fractional-order differential equations. , 2011, , .		6
41	Fractional order control model of steel casting process. , 2011, , .		5
42	Conception and administration design of database support of web service for thermodynamic calculations. , 2011, , .		1
43	HEATING PROCESS MODELLING USING SOA IN MATLAB CLIENT. , 2011, , .		1
44	Sintering Process Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 147-151.	0.4	1