

Jan Terpak

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

402
citations

1937685

4
h-index

1372567

10
g-index

44
all docs

44
docs citations

44
times ranked

410
citing authors

#	ARTICLE	IF	CITATIONS
1	Analogue Realization of Fractional-Order Dynamical Systems. Entropy, 2013, 15, 4199-4214.	2.2	212
2	Heat conduction modeling by using fractional-order derivatives. Applied Mathematics and Computation, 2015, 257, 365-373.	2.2	49
3	Fractional Calculus as a Simple Tool for Modeling and Analysis of Long Memory Process in Industry. Mathematics, 2019, 7, 511.	2.2	28
4	Comparison of the electronic realization of the fractional-order system and its model. , 2012, , .		11
5	Fractional Heat Conduction Models and Thermal Diffusivity Determination. Mathematical Problems in Engineering, 2015, 2015, 1-9.	1.1	10
6	Application of Support Vector Regression for Data-Driven Modeling of Melt Temperature and Carbon Content in LD Converter. , 2019, , .		9
7	Toolboxes and programs for fractional-order system identification, modeling, simulation, and control. , 2016, , .		8
8	Comparison of the methods for the calculation of fractional-order differential equations. , 2011, , .		6
9	Fractional order control model of steel casting process. , 2011, , .		5
10	Application of PID retuning method for laboratory feedback control system incorporating FO dynamics. , 2013, , .		5
11	On the mathematical properties of generalized fractional-order two-port networks using hybrid parameters. , 2013, , .		5
12	Utilization of the Mathematical Model of the Converter Process for the Sensitivity Analysis. , 2019, , .		5
13	The Mathematical Model for Indirect Measurement of Temperature in the Steel-Making Process. , 2020, , .		5
14	A METHOD FOR INCORPORATING FRACTIONAL-ORDER DYNAMICS THROUGH PID CONTROL SYSTEM RETUNING. International Journal of Pure and Applied Mathematics, 2013, 86, .	0.2	4
15	MODELING OF MATERIAL BALANCE FROM THE EXPERIMENTAL UCG. Acta Polytechnica, 2020, 60, 391-399.	0.6	4
16	Endpoint Prediction of Basic Oxygen Furnace Steelmaking Based on Gradient of Relative Decarburization Rate. , 2020, , .		4
17	Modelling of phase transition by the heating. , 2011, , .		3
18	Simulation model for analisis of thermal processes in thermo-insulating food packaging. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
19	Selected thermochemical properties of substances and their graphic web presentation. , 2012, , .		3
20	Mathematical models creation using orchestration and choreography of web services. , 2016, , .		3
21	Comparison of Different Approaches to the Creation of a Mathematical Model of Melt Temperature in an LD Converter. Processes, 2022, 10, 1378.	2.8	3
22	IDENTIFICATION OF FRACTIONAL-ORDER DYNAMICAL SYSTEMS BASED ON NONLINEAR FUNCTION OPTIMIZATION. International Journal of Pure and Applied Mathematics, 2013, 89, .	0.2	2
23	The proposal of web service for support of specific thermochemical calculations. , 2014, , .		2
24	The modelling of processes in the area of the raw material processing using service oriented architecture. , 2017, , .		2
25	Numerical solution for time fractional-order diffusion-wave equation using explicit finite difference method in web service form. , 2017, , .		2
26	Sintering Process Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 147-151.	0.4	1
27	Conception and administration design of database support of web service for thermodynamic calculations. , 2011, , .		1
28	Mathematical model of gasification and combustion of biomass. , 2012, , .		1
29	Posicast control of a class of fractional-order processes. Open Physics, 2013, 11, .	1.7	1
30	Generation of form's input elements select and radio type using web service. , 2013, , .		1
31	Graphic presentation of selected thermochemical properties of substances in Matlab using service oriented architecture. , 2013, , .		1
32	Draft for extension and amendment ThermoChemDC web service. , 2015, , .		1
33	The Mathematical Model for Indirect Measurement of Carbon Concentration in the Steelmaking Process and its Utilization in Process Control. , 2021, , .		1
34	HEATING PROCESS MODELLING USING SOA IN MATLAB CLIENT. , 2011, , .		1
35	Comparison a simulation model of heat exchanger with real equipment. , 2011, , .		0
36	Software support for modelling of heat transfer by convection. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Usage of the heat conduction model for the experimental determination of thermal diffusivity. , 2013, , .		0
38	The modeling of heat conduction using integer-and fractional-order derivatives. , 2014, , .		0
39	The utilization of the service oriented architecture for creating the model of cooling the material. , 2016, , .		0
40	An Advanced Method of Recognizing the State of the Technological Process in Technical Diagnostics. , 2019, , .		0
41	MATLABİ½INTERFACEİ½FORİ½WEBİ½SERVICEİ½PROVIDINGİ½THEİ½THERMOCHEMICALİ½DATA. , 2012, , .		0
42	THERMOCHEMICAL CALCULATIONS USING SERVICEORIENTED ARCHITECTURE IN THE WEB SERVICE FORM. Acta Polytechnica, 2018, 58, 26.	0.6	0
43	Fractional heat conduction models and their applications. , 2019, , 225-246.		0
44	The Analysis of the Influence of Input Parameters on the Accuracy of Temperature Model in the Steelmaking Process. , 2022, , .		0