Imre Felde

List of Publications by Year
in descending order

69	724	759233	610901
papers	citations	12 h-index	24 g-index

77	77	77	639
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Awakening City: Traces of the Circadian Rhythm within the Mobile Phone Network Data. Information (Switzerland), 2022, 13, 114.	2.9	1
2	Safe Overfitting of Boosted Tree Algorithm in Heat Transfer Modeling. , 2022, , .		1
3	Statistical accident analysis supporting the control of autonomous vehicles. Journal of Computational Methods in Sciences and Engineering, 2021, 21, 85-97.	0.2	6
4	Evaluating the Effect of the Financial Status to the Mobility Customs. ISPRS International Journal of Geo-Information, 2021, 10, 328.	2.9	4
5	The Relationship between Surface and In-Depth Hardness for the Nitrocarburizing Treatment Process. Metals, 2021, 11, 812.	2.3	4
6	Preparation Methods for Graphene Metal and Polymer Based Composites for EMI Shielding Materials: State of the Art Review of the Conventional and Machine Learning Methods. Metals, 2021, 11, 1164.	2.3	21
7	Analyzing the Behavior and Financial Status of Soccer Fans from a Mobile Phone Network Perspective: Euro 2016, a Case Study. Information (Switzerland), 2021, 12, 468.	2.9	5
8	COVID-19 Pandemic Prediction for Hungary; A Hybrid Machine Learning Approach. Mathematics, 2020, 8, 890.	2.2	198
9	Extreme Learning Machine-Based Model for Solubility Estimation of Hydrocarbon Gases in Electrolyte Solutions. Processes, 2020, 8, 92.	2.8	23
10	The Role of Urban Morphology Design on Enhancing Physical Activity and Public Health. International Journal of Environmental Research and Public Health, 2020, 17, 2359.	2.6	37
11	Rapid COVID-19 Diagnosis Using Deep Learning of the Computerized Tomography Scans. , 2020, , .		17
12	Systemic Fluid Balance Control in Hemodialysis Machines with ANFIS. , 2019, , .		0
13	Database for Research Projects to Solve the Inverse Heat Conduction Problem. Data, 2019, 4, 90.	2.3	1
14	Activity Pattern Analysis of the Mobile Phone Network During a Large Social Event. , 2019, , .		0
15	Prediction of thermal boundary conditions by using PSO. , 2019, , .		0
16	Prediction of objective function value for heat transfer coefficient function reconstruction by FWA. , 2019, , .		1
17	Assessment of a Mist Cooling System for Aluminum Alloys. Materials Performance and Characterization, 2019, 8, 285-296.	0.3	0
18	Using multiple graphics accelerators to solve the two-dimensional inverse heat conduction problem. Computer Methods in Applied Mechanics and Engineering, 2018, 336, 286-303.	6.6	11

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19	Mass Event Monitoring by Using Mobile Cell Information: A Case Study for Budapest at the Celebration of the State Foundation Day. , 2018, , .		0
20	Comparison of Road Accident Black Spot Searching Methods. , 2018, , .		2
21	Road Accident Black Spot Localisation using Morphological Image Processing Methods on Heatmap. , 2018, , .		3
22	Reconstruction of a heat transfer coefficients by using FWA approach. , 2018, , .		1
23	Estimating the Heat Transfer Coefficient Using Universal Function Approximator Neural Network. , 2018, , .		2
24	Parallelized Particle Swarm Optimization to Estimate the Heat Transfer Coefficients of Palm Oil, Canola Oil, Conventional, and Accelerated Petroleum Oil Quenchants. Materials Performance and Characterization, 2018, 8, 20180049.	0.3	1
25	Configuring genetic algorithm to solve the inverse heat conduction problem. , 2017, , .		9
26	Overview of taxi database from viewpoint of usability for traffic model development: A case study for Budapest. , 2017, , .		2
27	Solution of 2-D Inverse Heat Conduction Problem with Graphic Accelerator. Materials Performance and Characterization, 2017, 6, 20170008.	0.3	2
28	GPU-BASED HEAT TRANSFER MODEL. , 2017, , .		0
29	Estimation of temporospatial boundary conditions using a particle swarm optimisation technique. International Journal of Microstructure and Materials Properties, 2016, 11, 288.	0.1	13
30	Liquid quenchant database: determination of heat transfer coefficient during quenching. International Journal of Microstructure and Materials Properties, 2016, 11, 277.	0.1	6
31	Tackling complexity and missing information in adaptive control by fixed point transformation-based approach. , 2016, , .		2
32	Urban mobility by Facebook events. , 2016, , .		3
33	Heat transfer simulation using GPUs. , 2016, , .		1
34	Simulation of Laser Alloying Process. Topics in Intelligent Engineering and Informatics, 2016, , 59-67.	0.4	1
35	Hybrid Optimization Approach for Determination of Thermal Boundary Conditions. Topics in Intelligent Engineering and Informatics, 2016, , 69-77.	0.4	1
36	Modified particle swarm optimization method to solve one-dimensional IHCP. , 2015, , .		3

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37	Analysis of interaction between recrystallisation and nitride precipitation in cold rolled Al-killed low carbon steel. International Journal of Microstructure and Materials Properties, 2015, 10, 114.	0.1	0
38	Modelling of remelted and heat affected zone during laser alloying of C45 steel with nickel-based powder. International Journal of Microstructure and Materials Properties, 2015, 10, 129.	0.1	2
39	Adaptive Control by Using Time-Sharing and Fixed Point Transformation. , 2015, , .		3
40	Solving one-dimensional IHCP with particle swarm optimization using graphics accelerators. , 2015, , .		8
41	Simulation trends in quenching technology for automotive components. International Heat Treatment and Surface Engineering, 2014, 8, 42-48.	0.2	1
42	Report on IFHTSE Liquid Quenchant Database Project. International Heat Treatment and Surface Engineering, 2014, 8, 2-7.	0.2	3
43	Characterization of of urban traffic by using mobile phone traces. , 2014, , .		2
44	IFHTSE Editorial. International Heat Treatment and Surface Engineering, 2014, 8, 1-1.	0.2	1
45	Hybrid approach for solution of inverse heat conduction problems. , 2014, , .		4
46	The rising prospects of cloud robotic applications. , 2013, , .		25
47	Simulation and measurement of aluminiumâ€“nitride precipitation in hot rolled Al killed low carbon steel coil. International Heat Treatment and Surface Engineering, 2013, 7, 172-175.	0.2	0
48	Approximation of thermal boundary conditions as functions of temperature and local coordinates obtained during immersion quenching. , 2012, , .		0
49	Determination of Thermal Boundary Conditions During Immersion Quenching by Optimization Algorithms. Materials Performance and Characterization, 2012, 1, 104417.	0.3	4
50	Computer Simulations of Mechanical Properties of Steel Dies. Materials and Manufacturing Processes, 2009, 24, 714-717.	4.7	0
51	A Complete System for Testing and Evaluation of Quenchants and Quenching Systems. Journal of ASTM International, 2009, 6, 1-15.	0.2	2
52	Tom Bell Young Author Award Winner 2007Characterisation of hardening performance of quenchants by integrated numerical method. International Heat Treatment and Surface Engineering, 2008, 2, 55-59.	0.2	0
53	On the Topological Characterization of 3-D Polyhedral Microstrutures. Materials Science Forum, 2007, 537-538, 563-570.	0.3	2
54	Evaluation of Steel Hardenability by JM^{Â®}-Test. Materials Science Forum, 2007, 537-538, 607-614.	0.3	0

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55	A Novel Approach of Quenchant Evaluation by Applying Quality Functions. Materials Science Forum, 2007, 537-538, 513-518.	0.3	0
56	On the Temperature Rate Dependent Transformation Processes. Materials Science Forum, 2007, 537-538, 571-578.	0.3	0
57	Numerical Methods for Safeguarding the Performance of the Quenching Process. Materials Science Forum, 2005, 473-474, 335-340.	0.3	3
58	Simulation of Phase Transformations in Steel Parts Produced by Laser Powder Deposition. Materials Science Forum, 2005, 473-474, 315-320.	0.3	21
59	A Simplified Semi-Empirical Method to Select the Processing Parameters for Laser Clad Coatings. Materials Science Forum, 2003, 414-415, 385-394.	0.3	46
60	Computer simulation of steel quenching process using a multi-phase transformation model. Computational Materials Science, 2001, 22, 261-278.	3.0	67
61	Prediction of as-quenched hardness after rapid austenitization and cooling of surface hardened steels. Computational Materials Science, 1999, 15, 101-112.	3.0	15
62	A non-linear extension of the additivity rule. Computational Materials Science, 1999, 15, 466-482.	3.0	29
63	A comparative study of methods used for the prediction of nonisothermal austenite decomposition. Journal of Materials Engineering and Performance, 1997, 6, 433-441.	2.5	25
64	Evaluation of Cooling Characteristics of Quenchants by Using Inverse Heat Conduction Methods and Property Prediction. Materials Science Forum, 0, 659, 153-158.	0.3	5
65	Diffusion in Electrodes Used for Resistance Spot Welding of Galvannealed Steel. Defect and Diffusion Forum, 0, 297-301, 300-307.	0.4	1
66	Estimation of Thermal Boundary Conditions by Gradient Based and Genetic Algorythms. Materials Science Forum, 0, 729, 144-149.	0.3	9
67	Evaluation of Quenchantâ€™s Cooling and Hardening Performance. Materials Science Forum, 0, 812, 345-350.	0.3	1
68	Estimation of Thermal Boundary Conditions by Using Hybrid Inverse Approach. Materials Science Forum, 0, 812, 419-424.	0.3	2
69	Numerical Methods for Safeguarding the Performance of the Quenching Process. Materials Science Forum, 0, , 335-340.	0.3	1