

# Imre Felde

## List of Publications by Year in descending order

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69  
papers

724  
citations

759233

12  
h-index

610901

24  
g-index

77  
all docs

77  
docs citations

77  
times ranked

639  
citing authors

#	ARTICLE	IF	CITATIONS
1	COVID-19 Pandemic Prediction for Hungary; A Hybrid Machine Learning Approach. Mathematics, 2020, 8, 890.	2.2	198
2	Computer simulation of steel quenching process using a multi-phase transformation model. Computational Materials Science, 2001, 22, 261-278.	3.0	67
3	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
4	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
5	A non-linear extension of the additivity rule. Computational Materials Science, 1999, 15, 466-482.	3.0	29
6	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
7	The rising prospects of cloud robotic applications. , 2013, , .		25
8	Extreme Learning Machine-Based Model for Solubility Estimation of Hydrocarbon Gases in Electrolyte Solutions. Processes, 2020, 8, 92.	2.8	23
9	Simulation of Phase Transformations in Steel Parts Produced by Laser Powder Deposition. Materials Science Forum, 2005, 473-474, 315-320.	0.3	21
10	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
11	Rapid COVID-19 Diagnosis Using Deep Learning of the Computerized Tomography Scans. , 2020, , .		17
12	Prediction of as-quenched hardness after rapid austenitization and cooling of surface hardened steels. Computational Materials Science, 1999, 15, 101-112.	3.0	15
13	Estimation of temporospatial boundary conditions using a particle swarm optimisation technique. International Journal of Microstructure and Materials Properties, 2016, 11, 288.	0.1	13
14	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
15	Estimation of Thermal Boundary Conditions by Gradient Based and Genetic Algorithms. Materials Science Forum, 0, 729, 144-149.	0.3	9
16	Configuring genetic algorithm to solve the inverse heat conduction problem. , 2017, , .		9
17	Solving one-dimensional IHCP with particle swarm optimization using graphics accelerators. , 2015, , .		8
18	Liquid quenchant database: determination of heat transfer coefficient during quenching. International Journal of Microstructure and Materials Properties, 2016, 11, 277.	0.1	6

#	ARTICLE	IF	CITATIONS
19	Statistical accident analysis supporting the control of autonomous vehicles. Journal of Computational Methods in Sciences and Engineering, 2021, 21, 85-97.	0.2	6
20	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
21	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
22	Hybrid approach for solution of inverse heat conduction problems. , 2014, , .		4
23	Evaluating the Effect of the Financial Status to the Mobility Customs. ISPRS International Journal of Geo-Information, 2021, 10, 328.	2.9	4
24	The Relationship between Surface and In-Depth Hardness for the Nitrocarburizing Treatment Process. Metals, 2021, 11, 812.	2.3	4
25	Determination of Thermal Boundary Conditions During Immersion Quenching by Optimization Algorithms. Materials Performance and Characterization, 2012, 1, 104417.	0.3	4
26	Numerical Methods for Safeguarding the Performance of the Quenching Process. Materials Science Forum, 2005, 473-474, 335-340.	0.3	3
27	Report on IFHTSE Liquid Quenchant Database Project. International Heat Treatment and Surface Engineering, 2014, 8, 2-7.	0.2	3
28	Modified particle swarm optimization method to solve one-dimensional IHCP. , 2015, , .		3
29	Adaptive Control by Using Time-Sharing and Fixed Point Transformation. , 2015, , .		3
30	Urban mobility by Facebook events. , 2016, , .		3
31	Road Accident Black Spot Localisation using Morphological Image Processing Methods on Heatmap. , 2018, , .		3
32	On the Topological Characterization of 3-D Polyhedral Microstructures. Materials Science Forum, 2007, 537-538, 563-570.	0.3	2
33	Characterization of of urban traffic by using mobile phone traces. , 2014, , .		2
34	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
35	Estimation of Thermal Boundary Conditions by Using Hybrid Inverse Approach. Materials Science Forum, 0, 812, 419-424.	0.3	2
36	Tackling complexity and missing information in adaptive control by fixed point transformation-based approach. , 2016, , .		2

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37	Overview of taxi database from viewpoint of usability for traffic model development: A case study for Budapest. , 2017, , .		2
38	Comparison of Road Accident Black Spot Searching Methods. , 2018, , .		2
39	Estimating the Heat Transfer Coefficient Using Universal Function Approximator Neural Network. , 2018, , .		2
40	Solution of 2-D Inverse Heat Conduction Problem with Graphic Accelerator. Materials Performance and Characterization, 2017, 6, 20170008.	0.3	2
41	A Complete System for Testing and Evaluation of Quenchants and Quenching Systems. Journal of ASTM International, 2009, 6, 1-15.	0.2	2
42	Diffusion in Electrodes Used for Resistance Spot Welding of Galvannealed Steel. Defect and Diffusion Forum, 0, 297-301, 300-307.	0.4	1
43	Simulation trends in quenching technology for automotive components. International Heat Treatment and Surface Engineering, 2014, 8, 42-48.	0.2	1
44	IFHTSE Editorial. International Heat Treatment and Surface Engineering, 2014, 8, 1-1.	0.2	1
45	Evaluation of Quenchant's Cooling and Hardening Performance. Materials Science Forum, 0, 812, 345-350.	0.3	1
46	Heat transfer simulation using GPUs. , 2016, , .		1
47	Reconstruction of a heat transfer coefficients by using FWA approach. , 2018, , .		1
48	Database for Research Projects to Solve the Inverse Heat Conduction Problem. Data, 2019, 4, 90.	2.3	1
49	Prediction of objective function value for heat transfer coefficient function reconstruction by FWA. , 2019, , .		1
50	Simulation of Laser Alloying Process. Topics in Intelligent Engineering and Informatics, 2016, , 59-67.	0.4	1
51	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
52	Numerical Methods for Safeguarding the Performance of the Quenching Process. Materials Science Forum, 0, , 335-340.	0.3	1
53	Hybrid Optimization Approach for Determination of Thermal Boundary Conditions. Topics in Intelligent Engineering and Informatics, 2016, , 69-77.	0.4	1
54	Awakening City: Traces of the Circadian Rhythm within the Mobile Phone Network Data. Information (Switzerland), 2022, 13, 114.	2.9	1

#	ARTICLE	IF	CITATIONS
55	Safe Overfitting of Boosted Tree Algorithm in Heat Transfer Modeling. , 2022, , .		1
56	Evaluation of Steel Hardenability by JM&lt;sup&gt;Â®&lt;/sup&gt;-Test. Materials Science Forum, 2007, 537-538, 607-614.	0.3	0
57	A Novel Approach of Quenchant Evaluation by Applying Quality Functions. Materials Science Forum, 2007, 537-538, 513-518.	0.3	0
58	On the Temperature Rate Dependent Transformation Processes. Materials Science Forum, 2007, 537-538, 571-578.	0.3	0
59	<i>Tom Bell Young Author Award Winner 2007</i>Characterisation of hardening performance of quenchant by integrated numerical method. International Heat Treatment and Surface Engineering, 2008, 2, 55-59.	0.2	0
60	Computer Simulations of Mechanical Properties of Steel Dies. Materials and Manufacturing Processes, 2009, 24, 714-717.	4.7	0
61	Approximation of thermal boundary conditions as functions of temperature and local coordinates obtained during immersion quenching. , 2012, , .		0
62	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
63	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
64	Mass Event Monitoring by Using Mobile Cell Information: A Case Study for Budapest at the Celebration of the State Foundation Day. , 2018, , .		0
65	Systemic Fluid Balance Control in Hemodialysis Machines with ANFIS. , 2019, , .		0
66	Activity Pattern Analysis of the Mobile Phone Network During a Large Social Event. , 2019, , .		0
67	Prediction of thermal boundary conditions by using PSO. , 2019, , .		0
68	GPU-BASED HEAT TRANSFER MODEL. , 2017, , .		0
69	Assessment of a Mist Cooling System for Aluminum Alloys. Materials Performance and Characterization, 2019, 8, 285-296.	0.3	0