

# Elzbieta Gawronska

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7688777/publications.pdf>

Version: 2024-02-01

23  
papers

113  
citations

1478505

6  
h-index

1372567

10  
g-index

23  
all docs

23  
docs citations

23  
times ranked

85  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical Description of the Temperature Field Induced by Laser Heat Source with Any Trajectory. <i>Procedia Engineering</i> , 2016, 149, 553-558.	1.2	14
2	Theoretical and Experimental Investigation of Temperature and Phase Transformation During SAW Overlaying. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1472.	2.5	14
3	Application of Mixed Time Partitioning Methods to Raise the Efficiency of Solidification Modeling. , 2010, , .		13
4	The Effect Of Mechanical Interactions Between The Casting And The Mold On The Conditions Of Heat Dissipation: A Numerical Model. <i>Archives of Metallurgy and Materials</i> , 2015, 60, 1901-1910.	0.6	12
5	A Numerical Study of Geometry's Impact on the Thermal and Mechanical Properties of Periodic Surface Structures. <i>Materials</i> , 2021, 14, 427.	2.9	12
6	A Sequential Approach to Numerical Simulations of Solidification with Domain and Time Decomposition. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1972.	2.5	9
7	Numerical Problems Related to Solving the Navier-Stokes Equations in Connection with the Heat Transfer with the Use of FEM. <i>Procedia Engineering</i> , 2017, 177, 78-85.	1.2	8
8	Engineering calculations for complex geometric domains. <i>MATEC Web of Conferences</i> , 2018, 157, 02009.	0.2	6
9	Modeling of Two-Stage Solidification: Part I Model Development. <i>Archives of Foundry Engineering</i> , 2012, 12, 151-156.	0.4	4
10	Different Techniques of Determination of the Cracking Criterion for Solidification in Casting. <i>Procedia Engineering</i> , 2017, 177, 86-91.	1.2	4
11	Numerically Stable Computer Simulation of Solidification: Association Between Eigenvalues of Amplification Matrix and Size of Time Step. , 2015, , 17-30.		4
12	Stability of the mixed time partitioning methods in relation to the size of time step. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011, 11, 467-468.	0.2	3
13	Modeling of Two-Stage Solidification: Part II Computational Verification of the Model. <i>Archives of Foundry Engineering</i> , 2013, 13, 125-130.	0.4	3
14	Numerical Modeling of Equiaxed Structure Forming in the Cast during Alloy Solidification. <i>Procedia Engineering</i> , 2016, 136, 101-107.	1.2	2
15	Analysis of thermomechanical states in single-pass GMAW surfaced steel element. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
16	A computer simulation of solidification taking into account the movement of the liquid phase. <i>MATEC Web of Conferences</i> , 2018, 157, 02008.	0.2	1
17	Modeling of heat flow using commercial and authorial software on the example of a permanent magnet motor. <i>MATEC Web of Conferences</i> , 2019, 254, 02032.	0.2	1
18	3D simulations of solidification with liquid phase flow. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 776, 012029.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Testing the State of Internal Load and Strength of the Facade Mesh Wire Subjected to the Corrugation Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	2.2	1
20	Stress analysis in solid-liquid parts of solidifying castings. MATEC Web of Conferences, 2019, 254, 02019.	0.2	0
21	Modelling and computer simulations with the use of a specific organisation of calculations. , 2019, , .		0
22	Estimate the Impact of Different Heat Capacity Approximation Methods on the Numerical Results During Computer Simulation of Solidification. , 2017, , 1-14.		0
23	Impact of Geometry on the Thermal and Mechanical Properties of Periodic Surface Structures: A Numerical Study. MATEC Web of Conferences, 2022, 357, 02018.	0.2	0