

Edyta Hetmaniok

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

377
citations

12
h-index

15
g-index

75
ext. papers

421
ext. citations

1.7
avg, IF

3.76
L-index

#	Paper	IF	Citations
67	Comparison of the Selected Methods Used for Solving the Ordinary Differential Equations and Their Systems. <i>Mathematics</i> , 2022 , 10, 306	2.3	2
66	Solving the Integral Differential Equations with Delayed Argument by Using the DTM Method. <i>Sensors</i> , 2022 , 22, 4124	3.8	0
65	Reconstruction of the Boundary Condition in the Binary Alloy Solidification Problem with the Macrosegregation and the Material Shrinkage Phenomena Taken into Account. <i>Heat Transfer Engineering</i> , 2021 , 42, 308-318	1.7	1
64	Application of the Swarm Intelligence Algorithm for Reconstructing the Cooling Conditions of Steel Ingot Continuous Casting. <i>Energies</i> , 2020 , 13, 2429	3.1	1
63	Homotopy Approach for Integrodifferential Equations. <i>Mathematics</i> , 2019 , 7, 904	2.3	9
62	Parametric-vector versions of the Gerschgorin Theorem and the Brauer Theorem 2018 ,		1
61	Binomials transformation formulae for scaled Fibonacci numbers. <i>Open Mathematics</i> , 2017 , 15, 477-485	0.8	3
60	Fibonacci and Lucas numbers, Fibonacci and Lucas polynomials. <i>Mathematica Slovaca</i> , 2017 , 67, 51-70	0.7	3
59	Some new facts about group $\langle \pi \rangle$ generated by the family of convergent permutations. <i>Open Mathematics</i> , 2017 , 15, 568-577	0.8	1
58	Inverse alloy solidification problem including the material shrinkage phenomenon solved by using the bee algorithm. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 87, 295-301	5.8	5
57	Identification of the heat transfer coefficient in the two-dimensional model of binary alloy solidification. <i>Heat and Mass Transfer</i> , 2017 , 53, 1657-1666	2.2	9
56	More subtle versions of the Hadamard inequality. <i>Linear Algebra and Its Applications</i> , 2017 , 532, 500-511	0.9	7
55	Solution of the direct alloy solidification problem including the phenomenon of material shrinkage. <i>Thermal Science</i> , 2017 , 21, 105-115	1.2	5
54	Harmonic Numbers of Any Order and the Wolstenholme-Type Relations for Harmonic Numbers. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 33-44	0.2	
53	Inverse problem for the solidification of binary alloy in the casting mould solved by using the bee optimization algorithm. <i>Heat and Mass Transfer</i> , 2016 , 52, 1369-1379	2.2	8
52	Artificial bee colony algorithm in the solution of selected inverse problem of the binary alloy solidification. <i>Thermal Science</i> , 2016 , 20, 1609-1620	1.2	2
51	APPLICATION OF THE HOMOTOPY ANALYSIS METHOD FOR SOLVING THE SYSTEMS OF LINEAR AND NONLINEAR INTEGRAL EQUATIONS. <i>Mathematical Modelling and Analysis</i> , 2016 , 21, 350-370	1.3	3

50	Solution of the inverse problem in solidification of binary alloy by applying the ACO algorithm. <i>Inverse Problems in Science and Engineering</i> , 2016 , 24, 889-900	1.3	3
49	Parallel Procedure Based on the Swarm Intelligence for Solving the Two-Dimensional Inverse Problem of Binary Alloy Solidification. <i>Lecture Notes in Computer Science</i> , 2016 , 287-297	0.9	3
48	Solution of the one-phase inverse Stefan problem by using the homotopy analysis method. <i>Applied Mathematical Modelling</i> , 2015 , 39, 6793-6805	4.5	21
47	Restoration of the cooling conditions in a three-dimensional continuous casting process using artificial intelligence algorithms. <i>Applied Mathematical Modelling</i> , 2015 , 39, 4797-4807	4.5	13
46	Examination of Chaos Occurring in Selected Branched Kinematic Chains of Robot Manipulators. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 109-126	0.2	1
45	An analytical method for solving the two-phase inverse Stefan problem. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , 2015 , 63, 583-590		6
44	Numerical Procedure for Heat Transfer Coefficient Identification in Solidification of Binary Alloys and Its Experimental Verification. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2015 , 68, 93-114	1.3	3
43	Convergence and error estimation of homotopy analysis method for some type of nonlinear and linear integral equations. <i>Journal of Numerical Mathematics</i> , 2015 , 23,	3.4	9
42	Solution of the two-dimensional inverse problem of the binary alloy solidification by applying the Ant Colony Optimization algorithm. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 67, 39-45	5.8	6
41	Using the swarm intelligence algorithms in solution of the two-dimensional inverse Stefan problem. <i>Computers and Mathematics With Applications</i> , 2015 , 69, 347-361	2.7	14
40	Experimental verification of approximate solution of the inverse Stefan problem obtained by applying the invasive weed optimization algorithm. <i>Thermal Science</i> , 2015 , 19, 205-212	1.2	3
39	On the Three, Five and Other Periodic Orbits of Some Polynomials. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 91-107	0.2	
38	Intelligent System for Detection of Breathing Disorders. <i>Communications in Computer and Information Science</i> , 2015 , 366-375	0.3	0
37	Experimental Verification of Selected Artificial Intelligence Algorithms Used for Solving the Inverse Stefan Problem. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2014 , 66, 343-359	1.3	8
36	Iterated integrals of polynomials. <i>Applied Mathematics and Computation</i> , 2014 , 249, 389-398	2.7	
35	Generalized Gregory series. <i>Applied Mathematics and Computation</i> , 2014 , 237, 203-216	2.7	1
34	Application of the homotopy analysis method for solving the two-dimensional steady-state heat conduction problem 2014 ,		2
33	An analytical technique for solving general linear integral equations of the second kind and its application in analysis of flash lamp control circuit. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , 2014 , 62, 413-421		1

32	Determination of the Heat Flux in the Process of Solidification by Applying the Ant Colony Optimization Algorithm. <i>Key Engineering Materials</i> , 2014 , 622-623, 764-771	0.4	1
31	Artificial Bee Colony Algorithm Used for Solving some Inverse Problem in Solidification of the Binary Alloy. <i>Key Engineering Materials</i> , 2014 , 622-623, 756-763	0.4	
30	On series whose rearrangements possess discrete sets of limit points. <i>Journal of Applied Analysis</i> , 2014 , 20,	0.5	1
29	Usage of the homotopy analysis method for solving the nonlinear and linear integral equations of the second kind. <i>Numerical Algorithms</i> , 2014 , 67, 163-185	2.1	23
28	Artificial Bee Colony Algorithm Used for Reconstructing the Heat Flux Density in the Solidification Process. <i>Lecture Notes in Computer Science</i> , 2014 , 363-372	0.9	1
27	Solution of the Inverse Continuous Casting Problem with the Aid of Modified Harmony Search Algorithm. <i>Lecture Notes in Computer Science</i> , 2014 , 402-411	0.9	1
26	Clonal Selection Algorithm in Identification of Boundary Condition in the Inverse Stefan Problem. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 511-518	0.4	
25	On Commutation Properties of the Composition Relation of Convergent and Divergent Permutations (Part I). <i>Tatra Mountains Mathematical Publications</i> , 2014 , 58, 13-22	0.4	
24	A study of the convergence of and error estimation for the homotopy perturbation method for the Volterra-Fredholm integral equations. <i>Applied Mathematics Letters</i> , 2013 , 26, 165-169	3.5	17
23	Experimental verification of immune recruitment mechanism and clonal selection algorithm applied for solving the inverse problems of pure metal solidification. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 47, 7-14	5.8	15
22	Solution of the inverse heat conduction problem with Neumann boundary condition by using the homotopy perturbation method. <i>Thermal Science</i> , 2013 , 17, 643-650	1.2	7
21	A certain analytical method used for solving the Stefan problem. <i>Thermal Science</i> , 2013 , 17, 635-642	1.2	4
20	On similarities between exponential polynomials and Hermite polynomials. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2013 , 12, 93-104	2.1	4
19	Application of the Swarm Intelligence Algorithm for Investigating the Inverse Continuous Casting Problem. <i>Studies in Computational Intelligence</i> , 2013 , 157-162	0.8	3
18	Solution of the Inverse Stefan Problem by Applying the Procedure Based on the Modified Harmony Search Algorithm. <i>Studies in Computational Intelligence</i> , 2013 , 175-180	0.8	
17	Inverse Continuous Casting Problem Solved by Applying the Artificial Bee Colony Algorithm. <i>Lecture Notes in Computer Science</i> , 2013 , 431-440	0.9	2
16	On Certain Approximation Problem Connected with the Sums of Subseries. <i>Tatra Mountains Mathematical Publications</i> , 2013 , 55, 37-45	0.4	
15	Convergence and error estimation of homotopy perturbation method for Fredholm and Volterra integral equations. <i>Applied Mathematics and Computation</i> , 2012 , 218, 10717-10725	2.7	12

14	A stronger version of the second mean value theorem for integrals. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 1612-1615	2.7	15
13	Determination of the Heat Transfer Coefficient by Using the Ant Colony Optimization Algorithm. <i>Lecture Notes in Computer Science</i> , 2012 , 470-479	0.9	7
12	Some properties of inverses of the full matrices. <i>Computers and Mathematics With Applications</i> , 2012 , 63, 905-911	2.7	1
11	Application of the homotopy perturbation method for the solution of inverse heat conduction problem. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 30-35	5.8	37
10	Determination of Optimal Parameters for the Immune Algorithm Used for Solving Inverse Heat Conduction Problems with and without a Phase Change. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2012 , 62, 462-478	1.3	19
9	Application of the Ant Colony Optimization Algorithm for Reconstruction of the Thermal Conductivity Coefficient. <i>Lecture Notes in Computer Science</i> , 2012 , 240-248	0.9	2
8	Comparison of ABC and ACO Algorithms Applied for Solving the Inverse Heat Conduction Problem. <i>Lecture Notes in Computer Science</i> , 2012 , 249-257	0.9	9
7	Comparison of the Adomian decomposition method and the variational iteration method in solving the moving boundary problem. <i>Computers and Mathematics With Applications</i> , 2011 , 61, 1931-1934	2.7	13
6	Solution of the two-phase Stefan problem by using the Picard's iterative method. <i>Thermal Science</i> , 2011 , 15, 21-26	1.2	2
5	Using the Artificial Bee Colony Algorithm for Determining the Heat Transfer Coefficient. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 369-376		8
4	Solution of the Inverse Heat Conduction Problem by Using the ABC Algorithm. <i>Lecture Notes in Computer Science</i> , 2010 , 659-668	0.9	14
3	BOSON APPROACH TO THE STRUCTURE OF A = 62 NUCLEI. <i>International Journal of Modern Physics E</i> , 2007 , 16, 592-602	0.7	1
2	BOSON STRUCTURE OF THE 1s0d AND 1p0f-SHELL NUCLEI OBTAINED FROM THE SHELL MODEL. <i>International Journal of Modern Physics E</i> , 2006 , 15, 446-451	0.7	1
1	Identification of the air gap thermal resistance in the model of binary alloy solidification including the macrosegregation and the material shrinkage phenomena. <i>Inverse Problems in Science and Engineering</i> , 1-17	1.3	