

Mariusz Ciesielski

List of Publications by Year in descending order

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times ranked

186
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact and Numerical Solution of the Fractional Sturm–Liouville Problem with Neumann Boundary Conditions. <i>Entropy</i> , 2022, 24, 143.	2.2	8
2	Fractional Dual-Phase Lag Equation—Fundamental Solution of the Cauchy Problem. <i>Symmetry</i> , 2021, 13, 1333.	2.2	6
3	Analysis of solutions of the 1D fractional Cattaneo heat transfer equation. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2021, 20, 87-98.	0.7	2
4	Mathematical modelling of thermal and electrical processes during electrosurgical resection of colorectal polyps. <i>International Journal of Engineering Science</i> , 2020, 154, 103351.	5.0	2
5	Mathematical Modelling of Thermal and Electrical Processes in the Polyp-Colon System During Electrosurgical Polypectomy. <i>International Journal of Heat and Technology</i> , 2020, 38, 808-816.	0.6	1
6	A New Approach to the Numerical Modeling of Pure Metal Solidification. , 2019, 22, 1-8.		0
7	Comparison of approaches to the numerical modelling of pure metals solidification using the control volume method. <i>International Journal of Cast Metals Research</i> , 2019, 32, 213-220.	1.0	5
8	Numerical algorithms for approximation of fractional integral operators based on quadratic interpolation. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 3345-3355.	2.3	5
9	Exact and numerical solutions of the fractional Sturm–Liouville problem. <i>Fractional Calculus and Applied Analysis</i> , 2018, 21, 45-71.	2.2	19
10	Hyperbolic model of thermal interactions in a system biological tissue—protective clothing subjected to an external heat source. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 74, 1685-1700.	2.1	5
11	An Exact Solution of the Second-Order Differential Equation with the Fractional/Generalised Boundary Conditions. <i>Advances in Mathematical Physics</i> , 2018, 2018, 1-9.	0.8	3
12	The fractional Sturm–Liouville problem—Numerical approximation and application in fractional diffusion. <i>Journal of Computational and Applied Mathematics</i> , 2017, 317, 573-588.	2.0	27
13	Numerical Solution of Euler-Lagrange Equation with Caputo Derivatives. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 173-185.	1.2	18
14	Numerical Solution of the Bio-Heat Transfer Equation with Uncertain Parameters Using the Sensitivity Analysis Methods. <i>Defect and Diffusion Forum</i> , 2017, 379, 39-47.	0.4	2
15	Analytical solution of the dual phase lag equation describing the laser heating of thin metal film. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2017, 16, 33-40.	0.7	16
16	The multiple composition of the left and right fractional Riemann-Liouville integrals - analytical and numerical calculations. <i>Filomat</i> , 2017, 31, 6087-6099.	0.5	7
17	Fractional oscillator equation: analytical solution and algorithm for its approximate computation. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 2045-2052.	2.6	15
18	Dual Phase Lag Model of Melting Process in Domain of Metal Film Subjected to an External Heat Flux. <i>Archives of Foundry Engineering</i> , 2016, 16, 85-90.	0.4	7

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19	Sensitivity of transient temperature field in domain of forearm insulated by protective clothing with respect to perturbations of external boundary heat flux. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2016, 64, 591-598.	0.8	4
20	Comparison of bio-heat transfer numerical models based on the Pennes and Cattaneo-Vernotte equations. Journal of Applied Mathematics and Computational Mechanics, 2016, 15, 33-38.	0.7	8
21	SENSITIVITY OF TEMPERATURE FIELD IN THE SYSTEM PROTECTIVE CLOTHING - FOREARM WITH RESPECT TO PERTURBATIONS OF EXTERNAL HEATING CONDITIONS. , 2016, , .		0
22	The Sturm-Liouville eigenvalue problem - a numerical solution using the Control Volume Method. Journal of Applied Mathematics and Computational Mechanics, 2016, 15, 127-136.	0.7	1
23	Simulations of thermal processes in tooth proceeding during cold pulp vitality testing. Acta of Bioengineering and Biomechanics, 2016, 18, 33-41.	0.4	0
24	Fractional oscillator equation – Transformation into integral equation and numerical solution. Applied Mathematics and Computation, 2015, 257, 428-435.	2.2	24
25	Transformation of the second order boundary value problem into integral form - different approaches and a numerical solution. Journal of Applied Mathematics and Computational Mechanics, 2015, 14, 103-108.	0.7	5
26	Numerical solution of fractional Sturm-Liouville equation in integral form. Fractional Calculus and Applied Analysis, 2014, 17, 307-320.	2.2	39
27	Numerical simulation of the heating process in the domain of tissue insulated by protective clothing. Journal of Applied Mathematics and Computational Mechanics, 2014, 13, 13-20.	0.7	5
28	An approximation of the analytical solution of the fractional Euler-Lagrange equation. Journal of Applied Mathematics and Computational Mechanics, 2013, 12, 23-30.	0.7	3
29	Simulations of thermal processes in a restored tooth. Journal of Applied Mathematics and Computational Mechanics, 2013, 12, 103-108.	0.7	0
30	Numerical analysis of interrelations between skin surface temperature and burn wound shape. Scientific Research of the Institute of Mathematics and Computer Science, 2012, 11, 15-22.	0.2	2
31	Numerical solution of fractional oscillator equation. Applied Mathematics and Computation, 2011, 218, 2480-2488.	2.2	37
32	Application of Control Volume Method Using the Voronoi Tessellation in Numerical Modelling of Solidification Process. , 2010, , .		2
33	A Multiscale Approach to Numerical Modeling of Solidification. International Journal for Multiscale Computational Engineering, 2010, 8, 251-257.	1.2	1
34	Numerical treatment of an initial-boundary value problem for fractional partial differential equations. Signal Processing, 2006, 86, 2619-2631.	3.7	24
35	Effective Algorithm for Detection of a Collision between Spherical Particles. Lecture Notes in Computer Science, 2004, , 348-355.	1.3	1
36	Numerical Model of Thermal Processes in Domain of Thin Film Subjected to a Cyclic External Heat Flux. Materials Science Forum, 0, 706-709, 1460-1465.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Application of the Control Volume Method using the Voronoi polygons for numerical modeling of bio-heat transfer processes. Journal of Theoretical and Applied Mechanics, 0, , 927.	0.5	23
38	Numerical solution of non-homogenous fractional oscillator equation in integral form. Journal of Theoretical and Applied Mechanics, 0, , 959.	0.5	15
39	Application of the Alternating Direction Implicit Method for numerical solution of the dual-phase lag equation. Journal of Theoretical and Applied Mechanics, 0, , 839.	0.5	8