

# Mariusz Ciesielski

## List of Publications by Year in descending order

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39  
papers

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citations

933447

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h-index

888059

17  
g-index

41  
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41  
docs citations

41  
times ranked

186  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical solution of fractional Sturm-Liouville equation in integral form. <i>Fractional Calculus and Applied Analysis</i> , 2014, 17, 307-320.	2.2	39
2	Numerical solution of fractional oscillator equation. <i>Applied Mathematics and Computation</i> , 2011, 218, 2480-2488.	2.2	37
3	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
4	Numerical treatment of an initial-boundary value problem for fractional partial differential equations. <i>Signal Processing</i> , 2006, 86, 2619-2631.	3.7	24
5	Fractional oscillator equation — Transformation into integral equation and numerical solution. <i>Applied Mathematics and Computation</i> , 2015, 257, 428-435.	2.2	24
6	Application of the Control Volume Method using the Voronoi polygons for numerical modeling of bio-heat transfer processes. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 927.	0.5	23
7	Exact and numerical solutions of the fractional Sturm-Liouville problem. <i>Fractional Calculus and Applied Analysis</i> , 2018, 21, 45-71.	2.2	19
8	Numerical Solution of Euler-Lagrange Equation with Caputo Derivatives. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 173-185.	1.2	18
9	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
10	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
11	Numerical solution of non-homogenous fractional oscillator equation in integral form. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 959.	0.5	15
12	Application of the Alternating Direction Implicit Method for numerical solution of the dual-phase lag equation. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 839.	0.5	8
13	Comparison of bio-heat transfer numerical models based on the Pennes and Cattaneo-Vernotte equations. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2016, 15, 33-38.	0.7	8
14	Exact and Numerical Solution of the Fractional Sturm-Liouville Problem with Neumann Boundary Conditions. <i>Entropy</i> , 2022, 24, 143.	2.2	8
15	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
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 Dual-Phase Lag Equation—Fundamental Solution of the Cauchy Problem. <i>Symmetry</i> , 2021, 13, 1333.	2.2	6
18	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

#	ARTICLE	IF	CITATIONS
19	Hyperbolic model of thermal interactions in a system biological tissue"protective clothing subjected to an external heat source. Numerical Heat Transfer; Part A: Applications, 2018, 74, 1685-1700.	2.1	5
20	Comparison of approaches to the numerical modelling of pure metals solidification using the control volume method. International Journal of Cast Metals Research, 2019, 32, 213-220.	1.0	5
21	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
22	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
23	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
24	An Exact Solution of the Second-Order Differential Equation with the Fractional/Generalised Boundary Conditions. Advances in Mathematical Physics, 2018, 2018, 1-9.	0.8	3
25	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
26	Application of Control Volume Method Using the Voronoi Tessellation in Numerical Modelling of Solidification Process. , 2010, , .		2
27	Numerical Solution of the Bio-Heat Transfer Equation with Uncertain Parameters Using the Sensitivity Analysis Methods. Defect and Diffusion Forum, 2017, 379, 39-47.	0.4	2
28	Mathematical modelling of thermal and electrical processes during electrosurgical resection of colorectal polyps. International Journal of Engineering Science, 2020, 154, 103351.	5.0	2
29	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
30	Analysis of solutions of the 1D fractional Cattaneo heat transfer equation. Journal of Applied Mathematics and Computational Mechanics, 2021, 20, 87-98.	0.7	2
31	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
32	A Multiscale Approach to Numerical Modeling of Solidification. International Journal for Multiscale Computational Engineering, 2010, 8, 251-257.	1.2	1
33	Effective Algorithm for Detection of a Collision between Spherical Particles. Lecture Notes in Computer Science, 2004, , 348-355.	1.3	1
34	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
35	Mathematical Modelling of Thermal and Electrical Processes in the Polyp-Colon System During Electrosurgical Polypectomy. International Journal of Heat and Technology, 2020, 38, 808-816.	0.6	1
36	A New Approach to the Numerical Modeling of Pure Metal Solidification. , 2019, 22, 1-8.		0

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37	Simulations of thermal processes in a restored tooth. Journal of Applied Mathematics and Computational Mechanics, 2013, 12, 103-108.	0.7	0
38	SENSITIVITY OF TEMPERATURE FIELD IN THE SYSTEM PROTECTIVE CLOTHING - FOREARM WITH RESPECT TO PERTURBATIONS OF EXTERNAL HEATING CONDITIONS. , 2016, , .		0
39	Simulations of thermal processes in tooth proceeding during cold pulp vitality testing. Acta of Bioengineering and Biomechanics, 2016, 18, 33-41.	0.4	0