

Yuriy Povstenko

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.

74
papers

1,200
citations

16
h-index

33
g-index

78
ext. papers

1,344
ext. citations

2
avg. IF

5.83
L-index

#	Paper	IF	Citations
74	Fractional telegraph equation under moving time-harmonic impact. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 182, 121958	4.9	0
73	Mach Fronts in Random Media with Fractal and Hurst Effects. <i>Fractal and Fractional</i> , 2021 , 5, 229	3	1
72	Doppler effect described by the solutions of the Cattaneo telegraph equation. <i>Acta Mechanica</i> , 2021 , 232, 725-740	2.1	4
71	Some Applications of the Wright Function in Continuum Physics: A Survey. <i>Mathematics</i> , 2021 , 9, 198	2.3	0
70	Fractional thermoelasticity problem for an infinite solid with a penny-shaped crack under prescribed heat flux across its surfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190289	3	4
69	Fractional Calculus in Thermoelasticity 2020 , 953-961		
68	Fractional Nonlocal Elasticity and Solutions for Straight Screw and Edge Dislocations. <i>Physical Mesomechanics</i> , 2020 , 23, 547-555	1.6	2
67	Time-Fractional Heat Conduction with Heat Absorption in a Half-Line Domain Due to Boundary Value of the Heat Flux Varying Harmonically in Time. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 268-281 ^{0.2}		
66	Time-Fractional Diffusion-Wave Equation with Mass Absorption in a Sphere under Harmonic Impact. <i>Mathematics</i> , 2019 , 7, 433	2.3	7
65	Time-Fractional Heat Conduction in a Plane with Two External Half-Infinite Line Slits under Heat Flux Loading. <i>Symmetry</i> , 2019 , 11, 689	2.7	4
64	Fractional thermoelasticity problem for an infinite solid with a cylindrical hole under harmonic heat flux boundary condition. <i>Acta Mechanica</i> , 2019 , 230, 2137-2144	2.1	4
63	Time-fractional heat conduction in an infinite plane containing an external crack under heat flux loading. <i>Computers and Mathematics With Applications</i> , 2019 , 78, 1386-1395	2.7	3
62	Time-Fractional Heat Conduction in Two Joint Half-Planes. <i>Symmetry</i> , 2019 , 11, 800	2.7	0
61	Fractional heat conduction in solids connected by thin intermediate layer: nonperfect thermal contact. <i>Continuum Mechanics and Thermodynamics</i> , 2019 , 31, 1719-1731	3.5	3
60	Generalized theory of diffusive stresses associated with the time-fractional diffusion equation and nonlocal constitutive equations for the stress tensor. <i>Computers and Mathematics With Applications</i> , 2019 , 78, 1819-1825	2.7	7
59	Fractional heat conduction with heat absorption in a sphere under Dirichlet boundary condition. <i>Computational and Applied Mathematics</i> , 2018 , 37, 4475-4483		3
58	Time-fractional diffusion with mass absorption under harmonic impact. <i>Fractional Calculus and Applied Analysis</i> , 2018 , 21, 118-133	2.7	5

57	Time-Fractional Diffusion with Mass Absorption in a Half-Line Domain due to Boundary Value of Concentration Varying Harmonically in Time. <i>Entropy</i> , 2018 , 20,	2.8	4
56	Fractional thermoelasticity problem for a plane with a line crack under heat flux loading. <i>Journal of Thermal Stresses</i> , 2018 , 41, 1313-1328	2.2	13
55	Fractional Diffusion in a Solid with Mass Absorption. <i>Entropy</i> , 2017 , 19, 203	2.8	5
54	Two Approaches to Obtaining the Space-Time Fractional Advection-Diffusion Equation. <i>Entropy</i> , 2017 , 19, 297	2.8	13
53	The fundamental solutions to the central symmetric time-fractional heat conduction equation with heat absorption. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2017 , 16, 101-112	2.1	4
52	Control of thermal stresses in axisymmetric problems of fractional thermoelasticity for an infinite cylindrical domain. <i>Thermal Science</i> , 2017 , 21, 19-28	1.2	9
51	Time-fractional heat conduction in a two-layer composite slab. <i>Fractional Calculus and Applied Analysis</i> , 2016 , 19, 940-953	2.7	4
50	Fractional heat conduction in a space with a source varying harmonically in time and associated thermal stresses. <i>Journal of Thermal Stresses</i> , 2016 , 39, 1442-1450	2.2	21
49	Time-Fractional Heat Conduction in a Half-Line Domain due to Boundary Value of Temperature Varying Harmonically in Time. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-7	1.1	1
48	The Dirichlet problem for the time-fractional advection-diffusion equation in a line segment. <i>Boundary Value Problems</i> , 2016 , 2016,	2.1	7
47	Linear Fractional Diffusion-Wave Equation for Scientists and Engineers 2015 ,		94
46	Fractional Thermoelasticity. <i>Solid Mechanics and Its Applications</i> , 2015 ,	0.4	163
45	Time-fractional thermoelasticity problem for a sphere subjected to the heat flux. <i>Applied Mathematics and Computation</i> , 2015 , 257, 327-334	2.7	8
44	Generalized Boundary Conditions for the Time-Fractional Advection Diffusion Equation. <i>Entropy</i> , 2015 , 17, 4028-4039	2.8	15
43	Space-Time-Fractional Advection Diffusion Equation in a Plane. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 275-284	0.2	3
42	The Dirichlet problem for the time-fractional advection-diffusion equation in a half-space. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2015 , 14, 73-83	2.1	4
41	Fractional Heat Conduction and Related Theories of Thermoelasticity. <i>Solid Mechanics and Its Applications</i> , 2015 , 13-33	0.4	2
40	Thermoelasticity Based on Fractional Telegraph Equation. <i>Solid Mechanics and Its Applications</i> , 2015 , 191-210	0.4	1

39	Thermoelasticity Based on Time-Fractional Heat Conduction Equation in Spherical Coordinates. <i>Solid Mechanics and Its Applications</i> , 2015 , 117-170	0.4	
38	Thermoelasticity Based on Time-Fractional Heat Conduction Equation in Polar Coordinates. <i>Solid Mechanics and Its Applications</i> , 2015 , 35-86	0.4	
37	Fractional Thermoelasticity of Thin Shells. <i>Solid Mechanics and Its Applications</i> , 2015 , 211-225	0.4	2
36	Axisymmetric Problems in Cylindrical Coordinates. <i>Solid Mechanics and Its Applications</i> , 2015 , 87-116	0.4	
35	Fractional Advection-Diffusion Equation and Associated Diffusive Stresses. <i>Solid Mechanics and Its Applications</i> , 2015 , 227-249	0.4	2
34	Optimal Boundary Control of Thermal Stresses in a Plate Based on Time-Fractional Heat Conduction Equation. <i>Journal of Thermal Stresses</i> , 2014 , 37, 969-980	2.2	7
33	Generalized boundary conditions for time-fractional heat conduction equation 2014 ,		1
32	Fundamental solutions to the fractional heat conduction equation in a ball under Robin boundary condition. <i>Open Mathematics</i> , 2014 , 12,	0.8	3
31	Solutions to the fractional diffusion-wave equation in a wedge. <i>Fractional Calculus and Applied Analysis</i> , 2014 , 17,	2.7	15
30	Fractional heat conduction in a semi-infinite composite body. <i>Communications in Applied and Industrial Mathematics</i> , 2014 , 6,	0.5	5
29	Fundamental solutions to time-fractional heat conduction equations in two joint half-lines. <i>Open Physics</i> , 2013 , 11,	1.3	9
28	Axisymmetric solutions to fractional diffusion-wave equation in a cylinder under Robin boundary condition. <i>European Physical Journal: Special Topics</i> , 2013 , 222, 1767-1777	2.3	11
27	Time-fractional heat conduction in an infinite medium with a spherical hole under robin boundary condition. <i>Fractional Calculus and Applied Analysis</i> , 2013 , 16,	2.7	11
26	Propagation speed of the maximum of the fundamental solution to the fractional diffusion-wave equation. <i>Computers and Mathematics With Applications</i> , 2013 , 66, 774-784	2.7	48
25	Thermoelasticity of thin shells based on the time-fractional heat conduction equation. <i>Open Physics</i> , 2013 , 11,	1.3	3
24	Fractional Heat Conduction in an Infinite Medium with a Spherical Inclusion. <i>Entropy</i> , 2013 , 15, 4122-4133	3.8	25
23	Fractional Heat Conduction in Infinite One-Dimensional Composite Medium. <i>Journal of Thermal Stresses</i> , 2013 , 36, 351-363	2.2	30
22	Evolution of the Initial Box-Signal for Fractional Diffusion-Wave Equation: The Second Cauchy and Source Problems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 36-41		

21	Fractional thermoelasticity of thin shells 2013 , 141-144		1
20	Non-central-symmetric solution to time-fractional diffusion-wave equation in a sphere under Dirichlet boundary condition. <i>Fractional Calculus and Applied Analysis</i> , 2012 , 15,	2.7	5
19	The Neumann boundary problem for axisymmetric fractional heat conduction equation in a solid with cylindrical hole and associated thermal stress. <i>Meccanica</i> , 2012 , 47, 23-29	2.1	11
18	Time-fractional radial heat conduction in a cylinder and associated thermal stresses. <i>Archive of Applied Mechanics</i> , 2012 , 82, 345-362	2.2	19
17	2012 ,		2
16	Theories of thermal stresses based on space-time-fractional telegraph equations. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 3321-3328	2.7	40
15	Neumann boundary-value problems for a time-fractional diffusion-wave equation in a half-plane. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 3183-3192	2.7	7
14	Axisymmetric Solutions to Time-Fractional Heat Conduction Equation in a Half-Space under Robin Boundary Conditions. <i>International Journal of Differential Equations</i> , 2012 , 2012, 1-13	0.8	7
13	Non-axisymmetric solutions to time-fractional diffusion-wave equation in an infinite cylinder. <i>Fractional Calculus and Applied Analysis</i> , 2011 , 14,	2.7	52
12	Dirichlet Problem for Time-Fractional Radial Heat Conduction in a Sphere and Associated Thermal Stresses. <i>Journal of Thermal Stresses</i> , 2011 , 34, 51-67	2.2	7
11	Fractional Cattaneo-Type Equations and Generalized Thermoelasticity. <i>Journal of Thermal Stresses</i> , 2011 , 34, 97-114	2.2	175
10	Solutions to Diffusion-Wave Equation in a Body with a Spherical Cavity under Dirichlet Boundary Condition. <i>International Journal of Optimization and Control: Theories and Applications</i> , 2011 , 1, 3-16	1.5	3
9	Signaling problem for time-fractional diffusion-wave equation in a half-space in the case of angular symmetry. <i>Nonlinear Dynamics</i> , 2010 , 59, 593-605	5	57
8	Fractional radial heat conduction in an infinite medium with a cylindrical cavity and associated thermal stresses. <i>Mechanics Research Communications</i> , 2010 , 37, 436-440	2.2	85
7	Evolution of the initial box-signal for time-fractional diffusion-wave equation in a case of different spatial dimensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 4696-4707	3.3	11
6	Fractional heat conduction equation and associated thermal stresses in an infinite solid with spherical cavity. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2008 , 61, 523-547	1	30
5	Time-fractional radial diffusion in a sphere. <i>Nonlinear Dynamics</i> , 2008 , 53, 55-65	5	39
4	Two-dimensional axisymmetric stresses exerted by instantaneous pulses and sources of diffusion in an infinite space in a case of time-fractional diffusion equation. <i>International Journal of Solids and Structures</i> , 2007 , 44, 2324-2348	3.1	39

3	Fractional diffusion equation and diffusive stresses. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007 , 7, 2040007-2040008	0.2	
2	Fundamental Solutions to Central Symmetric Problems for Fractional Heat Conduction Equation and Associated Thermal Stresses. <i>Journal of Thermal Stresses</i> , 2007 , 31, 127-148	2.2	16
1	Concentrated ring loading in a nonlocal elastic medium. <i>International Journal of Engineering Science</i> , 2005 , 43, 457-471	5.7	3