

# DuÅ;an M Zorica

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6758475/publications.pdf>

Version: 2024-02-01

63  
papers

1,159  
citations

393982

19  
h-index

454577

30  
g-index

70  
all docs

70  
docs citations

70  
times ranked

663  
citing authors

#	ARTICLE	IF	CITATIONS
1	A diffusion wave equation with two fractional derivatives of different order. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 5319-5333.	0.7	84
2	Time distributed-order diffusion-wave equation. I. Volterra-type equation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 1869-1891.	1.0	71
3	Time distributed-order diffusion-wave equation. II. Applications of Laplace and Fourier transformations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 1893-1917.	1.0	70
4	Distributed-order fractional wave equation on a finite domain. Stress relaxation in a rod. <i>International Journal of Engineering Science</i> , 2011, 49, 175-190.	2.7	59
5	Properties of the Caputo-Fabrizio fractional derivative and its distributional settings. <i>Fractional Calculus and Applied Analysis</i> , 2018, 21, 29-44.	1.2	59
6	On the fractional generalization of Eringen's nonlocal elasticity for wave propagation. <i>Comptes Rendus - Mecanique</i> , 2013, 341, 298-303.	2.1	55
7	A non-linear thermo-viscoelastic rheological model based on fractional derivatives for high temperature creep in concrete. <i>Applied Mathematical Modelling</i> , 2018, 55, 551-568.	2.2	47
8	The Cattaneo type space-time fractional heat conduction equation. <i>Continuum Mechanics and Thermodynamics</i> , 2012, 24, 293-311.	1.4	38
9	Waves in fractional Zener type viscoelastic media. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 365, 259-268.	0.5	35
10	Distributed-order fractional wave equation on a finite domain: creep and forced oscillations of a rod. <i>Continuum Mechanics and Thermodynamics</i> , 2011, 23, 305-318.	1.4	33
11	A model of the viscoelastic behavior of flowable resin composites prior to setting. <i>Dental Materials</i> , 2013, 29, 929-934.	1.6	33
12	Complex order fractional derivatives in viscoelasticity. <i>Mechanics of Time-Dependent Materials</i> , 2016, 20, 175-195.	2.3	32
13	Generalized time-fractional telegrapher's equation in transmission line modeling. <i>Nonlinear Dynamics</i> , 2017, 88, 1453-1472.	2.7	30
14	Thermodynamical Restrictions and Wave Propagation for a Class of Fractional Order Viscoelastic Rods. <i>Abstract and Applied Analysis</i> , 2011, 2011, 1-32.	0.3	29
15	Waves in viscoelastic media described by a linear fractional model. <i>Integral Transforms and Special Functions</i> , 2011, 22, 283-291.	0.8	27
16	Vibrations of an elastic rod on a viscoelastic foundation of complex fractional Kelvin-Voigt type. <i>Meccanica</i> , 2015, 50, 1679-1692.	1.2	23
17	Fractional Burgers models in creep and stress relaxation tests. <i>Applied Mathematical Modelling</i> , 2020, 77, 1894-1935.	2.2	22
18	Expansion formula for fractional derivatives in variational problems. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 409, 911-924.	0.5	20

#	ARTICLE	IF	CITATIONS
19	Analytical and numerical treatment of the heat conduction equation obtained via time-fractional distributed-order heat conduction law. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 492, 2316-2335.	1.2	20
20	Distributed-order fractional constitutive stress-strain relation in wave propagation modeling. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2019, 70, 1.	0.7	19
21	Forced oscillations of a body attached to a viscoelastic rod of fractional derivative type. <i>International Journal of Engineering Science</i> , 2013, 64, 54-65.	2.7	17
22	Fractional circuit in transient and steady state regimes. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 96, 105670.	1.7	16
23	Nano- and viscoelastic Beck's column on elastic foundation. <i>Acta Mechanica</i> , 2015, 226, 2335-2345.	1.1	12
24	Viscoelastic properties of uncured resin composites: Dynamic oscillatory shear test and fractional derivative model. <i>Dental Materials</i> , 2015, 31, 1003-1009.	1.6	11
25	Space-time fractional Zener wave equation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20140614.	1.0	11
26	Euler-Lagrange Equations for Lagrangians Containing Complex-order Fractional Derivatives. <i>Journal of Optimization Theory and Applications</i> , 2017, 174, 256-275.	0.8	11
27	Complementary variational principles with fractional derivatives. <i>Acta Mechanica</i> , 2012, 223, 685-704.	1.1	10
28	An expansion formula for fractional derivatives of variable order. <i>Open Physics</i> , 2013, 11, .	0.8	10
29	Formulation of thermodynamically consistent fractional Burgers models. <i>Acta Mechanica</i> , 2018, 229, 3557-3570.	1.1	10
30	Dynamic Stability of Axially Loaded Nonlocal Rod on Generalized Pasternak Foundation. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	1.6	9
31	Buckling and Postbuckling of a Heavy Compressed Nanorod on Elastic Foundation. <i>Journal of Nanomechanics &amp; Micromechanics</i> , 2017, 7, 04017004.	1.4	7
32	Energy dissipation for hereditary and energy conservation for non-local fractional wave equations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190295.	1.6	7
33	Stability of the rotating compressed nanorod. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2014, 94, 499-504.	0.9	6
34	Rotating Nanorod with Clamped Ends. <i>International Journal of Structural Stability and Dynamics</i> , 2015, 15, 1450050.	1.5	6
35	Microlocal analysis of fractional wave equations. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2017, 97, 217-225.	0.9	5
36	Convergence analysis of a numerical scheme for two classes of non-linear fractional differential equations. <i>Applied Mathematics and Computation</i> , 2014, 243, 611-623.	1.4	4

#	ARTICLE	IF	CITATIONS
37	Fractional Burgers wave equation. Acta Mechanica, 2019, 230, 4321-4340.	1.1	4
38	Frequency Characteristics of Two Topologies Representing Fractional Order Transmission Line Model. Circuits, Systems, and Signal Processing, 2020, 39, 456-473.	1.2	4
39	Frequency analysis of generalized time-fractional telegrapher's equation. , 2017, , .		3
40	Non-local telegrapher's equation as a transmission line model. Applied Mathematics and Computation, 2021, 390, 125602.	1.4	3
41	Dissipative and generative fractional electric elements in modeling $\vec{RC}$ and $\vec{RL}$ circuits. Nonlinear Dynamics, 2021, 105, 3451-3474.	2.7	3
42	Fractional telegrapher's equation as a consequence of Cattaneo's heat conduction law generalization. Theoretical and Applied Mechanics, 2018, 45, 35-51.	0.1	3
43	Frequency Characteristics of Dissipative and Generative Fractional RLC Circuits. Circuits, Systems, and Signal Processing, 2022, 41, 4717-4754.	1.2	3
44	An initial value problem arising in mechanics. Archive of Applied Mechanics, 2014, 84, 219-233.	1.2	2
45	Viscoelastic body colliding against a rigid wall with and without dry friction effects. Applied Mathematical Modelling, 2017, 45, 365-382.	2.2	2
46	Solvability and microlocal analysis of the fractional Eringen wave equation. Mathematics and Mechanics of Solids, 2018, 23, 1420-1430.	1.5	2
47	Fractional Burgers wave equation on a finite domain. Chaos, Solitons and Fractals, 2022, 154, 111632.	2.5	2
48	Fractional Heat Conduction Equations. , 2014, , 257-287.		1
49	Variational Problems with Fractional Derivatives. , 2014, , 279-377.		1
50	Vibrations with Fractional Dissipation. , 2014, , 83-122.		1
51	Bifurcation analysis of the rotating axially compressed nanorod with imperfections. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201800284.	0.9	1
52	Hereditariness and non-locality in wave propagation modeling. Theoretical and Applied Mechanics, 2020, 47, 19-31.	0.1	1
53	Lateral Vibrations and Stability of Viscoelastic Rods. , 2014, , 123-184.		0
54	Basic Definitions and Properties of Fractional Integrals and Derivatives. , 2014, , 17-47.		0

#	ARTICLE	IF	CITATIONS
55	Waves in Viscoelastic Materials of Fractional-Order Type. , 2014, , 49-147.		0
56	Forced Oscillations of a System: Viscoelastic Rod and Body. , 2014, , 149-242.		0
57	Impact of Viscoelastic Body Against the Rigid Wall. , 2014, , 243-277.		0
58	Basic Definitions and Properties of Fractional Integrals and Derivatives. , 2014, , 17-47.		0
59	Fractional Diffusion-Wave Equations. , 2014, , 185-255.		0
60	Restrictions Following from the Thermodynamics for Fractional Derivative Models of a Viscoelastic Body. , 2014, , 49-82.		0
61	Fractional two-compartmental model for articaine serum levels. Heat and Mass Transfer, 2016, 52, 1125-1130.	1.2	0
62	Transmission line modeling by fractional and topological generalization of the telegrapher's equation. , 2022, , 355-401.		0
63	Electromagnetic field in a conducting medium modeled by the fractional Ohm's law. Communications in Nonlinear Science and Numerical Simulation, 2022, 114, 106706.	1.7	0