

Abhik Sur

List of Publications by Year in Descending Order

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Version: 2024-04-19

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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.

53

papers

991

citations

21

h-index

29

g-index

53

ext. papers

1,071

ext. citations

1.8

avg, IF

6.14

L-index

#	Paper	IF	Citations
53	Elasto-thermodiffusive response in a spherical shell subjected to memory-dependent heat transfer. <i>Waves in Random and Complex Media</i> , 2021 , 31, 515-537	1.9	28
52	The Caputo-Fabrizio heat transport law in vibration analysis of a microscale beam induced by laser. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021 , 101, e202000215	1	6
51	Authors'Reply to Comment on Magneto-thermoelastic interaction in a reinforced medium with cylindrical cavity in the context of CaputoFabrizio heat transport law, S. Mondal, A. Sur, M. Kanoria, <i>Acta Mech</i> 230, 4367-4384 (2019)By A. Pantokratoras. <i>Acta Mechanica</i> , 2021 , 232, 353-354	2.1	
50	Memory response on wave propagation in a thermoelastic plate due to moving band-type thermal loads and magnetic field. <i>Mechanics Based Design of Structures and Machines</i> , 2021 , 49, 172-193	1.7	21
49	Transient heating within skin tissue due to time-dependent thermal therapy in the context of memory dependent heat transport law. <i>Mechanics Based Design of Structures and Machines</i> , 2021 , 49, 271-285	1.7	19
48	Photo-thermo-elastic wave propagation under the influence of magnetic field in presence of memory responses. <i>Mechanics Based Design of Structures and Machines</i> , 2021 , 49, 862-883	1.7	33
47	Field equations and corresponding memory responses for a fiber-reinforced functionally graded medium due to heat source. <i>Mechanics Based Design of Structures and Machines</i> , 2021 , 49, 511-533	1.7	14
46	Healing of the cancer tissues under the action of moving heat and non-local CaputoFabrizio heat transport. <i>Waves in Random and Complex Media</i> , 2020 , 1-16	1.9	4
45	Effect of nonlocality in the vibration of a microscale ribbon due to laser pulse. <i>Waves in Random and Complex Media</i> , 2020 , 1-25	1.9	2
44	The memory effect on thermal wave propagation in a moving thin slab. <i>Waves in Random and Complex Media</i> , 2020 , 1-17	1.9	7
43	Memory responses in a three-dimensional thermo-viscoelastic medium. <i>Waves in Random and Complex Media</i> , 2020 , 1-18	1.9	17
42	A memory response on the elasto-thermodiffusive interaction subjected to rectangular thermal pulse and chemical shock. <i>Mechanics Based Design of Structures and Machines</i> , 2020 , 1-22	1.7	17
41	A graded spherical tissue under thermal therapy : the treatment of cancer cells. <i>Waves in Random and Complex Media</i> , 2020 , 1-20	1.9	14
40	Memory response in the vibration of a micro-scale beam due to time-dependent thermal loading. <i>Mechanics Based Design of Structures and Machines</i> , 2020 , 1-23	1.7	16
39	Transient response in an elasto-thermo-diffusive medium in the context of memory-dependent heat transfer. <i>Waves in Random and Complex Media</i> , 2020 , 1-24	1.9	15
38	Photo-thermo-elastic wave propagation in an orthotropic semiconductor with a spherical cavity and memory responses. <i>Waves in Random and Complex Media</i> , 2020 , 1-24	1.9	51
37	Wave propagation analysis of porous asphalts on account of memory responses. <i>Mechanics Based Design of Structures and Machines</i> , 2020 , 1-19	1.7	20

36	Influence of Moving Heat Source on Skin Tissue in the Context of Two-Temperature Caputo-Fabrizio Heat Transport Law. <i>Journal of Multiscale Modeling</i> , 2020 , 11, 2050002	0.8	15
35	A generalized thermoelastic problem due to nonlocal effect in presence of mode I crack. <i>Journal of Thermal Stresses</i> , 2020 , 43, 1277-1299	2.2	12
34	Effect of non-locality in the vibration of a micro-scale beam under two-temperature memory responses. <i>Waves in Random and Complex Media</i> , 2020 , 1-28	1.9	4
33	Effect of nonlocality and memory responses in the thermoelastic problem with a Mode I crack. <i>Waves in Random and Complex Media</i> , 2020 , 1-26	1.9	11
32	Memory response on wave propagation in a micropolar magneto-thermo-viscoelastic half-space. <i>Waves in Random and Complex Media</i> , 2020 , 1-29	1.9	6
31	Elasto-thermodiffusive interaction subjected to rectangular thermal pulse and time-dependent chemical shock due to Caputo-Fabrizio heat transfer. <i>Waves in Random and Complex Media</i> , 2020 , 1-23	1.9	6
30	Transient heating in a spherical tissue due to thermal therapy in the context of memory-dependent heat transport law. <i>Waves in Random and Complex Media</i> , 2020 , 1-19	1.9	6
29	Effect of hydrostatic pressure and memory effect on magneto-thermoelastic materials with two-temperatures. <i>Waves in Random and Complex Media</i> , 2020 , 1-30	1.9	10
28	Influence of moving heat source on skin tissue in the context of two-temperature memory-dependent heat transport law. <i>Journal of Thermal Stresses</i> , 2020 , 43, 55-71	2.2	22
27	Thermoelastic interaction in a magneto-thermoelastic rod with memory-dependent derivative due to the presence of moving heat source. <i>Indian Journal of Physics</i> , 2020 , 94, 1591-1602	1.4	16
26	Memory response on thermal wave propagation in an elastic solid with voids. <i>Mechanics Based Design of Structures and Machines</i> , 2020 , 48, 326-347	1.7	25
25	Magneto-thermoelastic interaction in a reinforced medium with cylindrical cavity in the context of Caputo-Fabrizio heat transport law. <i>Acta Mechanica</i> , 2019 , 230, 4367-4384	2.1	28
24	Modeling of memory-dependent derivative in a functionally graded plate. <i>Waves in Random and Complex Media</i> , 2019 , 1-21	1.9	15
23	Transient response in a piezoelectric medium due to the influence of magnetic field with memory-dependent derivative. <i>Acta Mechanica</i> , 2019 , 230, 2325-2338	2.1	37
22	Memory response on thermal wave propagation in an elastic solid with voids due to influence of magnetic field. <i>Waves in Random and Complex Media</i> , 2019 , 1-24	1.9	13
21	A memory response in the vibration of a microscale beam induced by laser pulse. <i>Journal of Thermal Stresses</i> , 2019 , 42, 1415-1431	2.2	32
20	Magneto-thermoelastic interaction in a functionally graded medium under gravitational field. <i>Waves in Random and Complex Media</i> , 2019 , 1-22	1.9	23
19	Thermoelastic response of fiber-reinforced epoxy composite under continuous line heat source. <i>Waves in Random and Complex Media</i> , 2019 , 1-31	1.9	15

18	Finite element analysis in a fiber-reinforced cylinder due to memory-dependent heat transfer. <i>Acta Mechanica</i> , 2019 , 230, 1607-1624	2.1	41
17	Modeling of memory-dependent derivative in a fiber-reinforced plate under gravitational effect. <i>Journal of Thermal Stresses</i> , 2018 , 41, 973-992	2.2	36
16	Modeling of memory-dependent derivative in a fibre-reinforced plate. <i>Thin-Walled Structures</i> , 2018 , 126, 85-93	4.7	47
15	Propagation of thermal waves in a functionally graded thick plate. <i>Mathematics and Mechanics of Solids</i> , 2017 , 22, 718-736	2.3	25
14	Modeling of Fibre-reinforced Magneto-thermoelastic Plate With Heat Sources. <i>Procedia Engineering</i> , 2017 , 173, 875-882		24
13	Thermo-viscoelastic Interaction in a Three-dimensional Problem Subjected to Fractional Heat Conduction. <i>Procedia Engineering</i> , 2017 , 173, 851-858		21
12	Modeling and analysis of vibration of a gold nano-beam under two-temperature theor. <i>Engineering Solid Mechanics</i> , 2017 , 15-30	1.3	8
11	Three-Dimensional Thermoelastic Problem Under Two-Temperature Theory. <i>International Journal of Computational Methods</i> , 2017 , 14, 1750030	1.1	25
10	Three dimensional viscoelastic medium under thermal shock. <i>Engineering Solid Mechanics</i> , 2016 , 187-200	1.3	3
9	Generalized thermoelastic problem of an infinite body with a spherical cavity under dual-phase-lags. <i>Journal of Applied Mechanics and Technical Physics</i> , 2016 , 57, 652-665	0.6	21
8	Fibre-reinforced Magneto-thermoelastic Rotating Medium with Fractional Heat Conduction. <i>Procedia Engineering</i> , 2015 , 127, 605-612		28
7	Thermoelastic interaction in a viscoelastic functionally graded half-space under three-phase-lag model. <i>European Journal of Computational Mechanics</i> , 2014 , 23, 179-198	0.5	42
6	Fractional heat conduction with finite wave speed in a thermo-visco-elastic spherical shell. <i>Latin American Journal of Solids and Structures</i> , 2014 , 11, 1132-1162	1.4	12
5	Fractional order two-temperature thermoelasticity with finite wave speed. <i>Acta Mechanica</i> , 2012 , 223, 2685-2701	2.1	54
4	Non-local memory-dependent heat conduction in a magneto-thermoelastic problem. <i>Waves in Random and Complex Media</i> , 1-21	1.9	22
3	Thermal wave propagation in a two-dimensional problem under gravitational field due to time-dependent thermal loading and memory effect. <i>Waves in Random and Complex Media</i> , 1-25	1.9	0
2	Nonlocal effects in a functionally graded thermoelastic layer due to volumetric absorption laser. <i>Waves in Random and Complex Media</i> , 1-21	1.9	
1	Field equations and memory effects in a functionally graded magneto-thermoelastic rod. <i>Mechanics Based Design of Structures and Machines</i> , 1-23	1.7	2

