Abhik Sur

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Photo-thermo-elastic wave propagation in an orthotropic semiconductor with a spherical cavity and memory responses. Waves in Random and Complex Media, 2021, 31, 1835-1858.	2.7	92
2	Fractional order two-temperature thermoelasticity with finite wave speed. Acta Mechanica, 2012, 223, 2685-2701.	2.1	56
3	Modeling of memory-dependent derivative in a fibre-reinforced plate. Thin-Walled Structures, 2018, 126, 85-93.	5.3	55
4	Finite element analysis in a fiber-reinforced cylinder due to memory-dependent heat transfer. Acta Mechanica, 2019, 230, 1607-1624.	2.1	47
5	Thermoelastic interaction in a viscoelastic functionally graded half-space under three-phase-lag model. European Journal of Computational Mechanics, 2014, 23, 179-198.	0.6	45
6	Modeling of memory-dependent derivative in a fiber-reinforced plate under gravitational effect. Journal of Thermal Stresses, 2018, 41, 973-992.	2.0	42
7	Magneto-thermoelastic interaction in a reinforced medium with cylindrical cavity in the context of Caputo–Fabrizio heat transport law. Acta Mechanica, 2019, 230, 4367-4384.	2.1	41
8	Transient response in a piezoelastic medium due to the influence of magnetic field with memory-dependent derivative. Acta Mechanica, 2019, 230, 2325-2338.	2.1	41
9	Photo-thermo-elastic wave propagation under the influence of magnetic field in presence of memory responses. Mechanics Based Design of Structures and Machines, 2021, 49, 862-883.	4.7	40
10	A memory response in the vibration of a microscale beam induced by laser pulse. Journal of Thermal Stresses, 2019, 42, 1415-1431.	2.0	39
11	Non-local memory-dependent heat conduction in a magneto-thermoelastic problem. Waves in Random and Complex Media, 2022, 32, 251-271.	2.7	37
12	Elasto-thermodiffusive response in a spherical shell subjected to memory-dependent heat transfer. Waves in Random and Complex Media, 2021, 31, 515-537.	2.7	33
13	Memory response on thermal wave propagation in an elastic solid with voids. Mechanics Based Design of Structures and Machines, 2020, 48, 326-347.	4.7	31
14	Fibre-reinforced Magneto-thermoelastic Rotating Medium with Fractional Heat Conduction. Procedia Engineering, 2015, 127, 605-612.	1.2	30
15	Magneto-thermoelastic interaction in a functionally graded medium under gravitational field. Waves in Random and Complex Media, 2021, 31, 1633-1654.	2.7	30
16	Influence of moving heat source on skin tissue in the context of two-temperature memory-dependent heat transport law. Journal of Thermal Stresses, 2020, 43, 55-71.	2.0	29
17	Thermoelastic interaction in a magneto-thermoelastic rod with memory-dependent derivative due to the presence of moving heat source. Indian Journal of Physics, 2020, 94, 1591-1602.	1.8	29
18	Propagation of thermal waves in a functionally graded thick plate. Mathematics and Mechanics of Solids, 2017, 22, 718-736.	2.4	28

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19	Three-Dimensional Thermoelastic Problem Under Two-Temperature Theory. International Journal of Computational Methods, 2017, 14, 1750030.	1.3	27
20	Modeling of Fibre-reinforced Magneto-thermoelastic Plate With Heat Sources. Procedia Engineering, 2017, 173, 875-882.	1.2	26
21	Wave propagation analysis of porous asphalts on account of memory responses. Mechanics Based Design of Structures and Machines, 2020, , 1-19.	4.7	26
22	Transient heating within skin tissue due to time-dependent thermal therapy in the context of memory dependent heat transport law. Mechanics Based Design of Structures and Machines, 2021, 49, 271-285.	4.7	26
23	Memory responses in a three-dimensional thermo-viscoelastic medium. Waves in Random and Complex Media, 2020, , 1-18.	2.7	25
24	Memory response on wave propagation in a thermoelastic plate due to moving band-type thermal loads and magnetic field. Mechanics Based Design of Structures and Machines, 2021, 49, 172-193.	4.7	25
25	Thermo-viscoelastic Interaction in a Three-dimensional Problem Subjected to Fractional Heat Conduction. Procedia Engineering, 2017, 173, 851-858.	1.2	24
26	A graded spherical tissue under thermal therapy : the treatment of cancer cells. Waves in Random and Complex Media, 2022, 32, 488-507.	2.7	23
27	Memory response in the vibration of a micro-scale beam due to time-dependent thermal loading. Mechanics Based Design of Structures and Machines, 2022, 50, 1161-1183.	4.7	23
28	Generalized thermoelastic problem of an infinite body with a spherical cavity under dual-phase-lags. Journal of Applied Mechanics and Technical Physics, 2016, 57, 652-665.	0.5	22
29	A memory response on the elasto-thermodiffusive interaction subjected to rectangular thermal pulse and chemical shock. Mechanics Based Design of Structures and Machines, 2022, 50, 2102-2123.	4.7	21
30	Transient response in an elasto-thermo-diffusive medium in the context of memory-dependent heat transfer. Waves in Random and Complex Media, 2021, 31, 2238-2261.	2.7	21
31	Influence of Moving Heat Source on Skin Tissue in the Context of Two-Temperature Caputo–Fabrizio Heat Transport Law. Journal of Multiscale Modeling, 2020, 11, .	1.1	20
32	Modeling of memory-dependent derivative in a functionally graded plate. Waves in Random and Complex Media, 2021, 31, 618-638.	2.7	19
33	Thermoelastic response of fiber-reinforced epoxy composite under continuous line heat source. Waves in Random and Complex Media, 2021, 31, 1749-1779.	2.7	16
34	A generalized thermoelastic problem due to nonlocal effect in presence of mode I crack. Journal of Thermal Stresses, 2020, 43, 1277-1299.	2.0	16
35	Field equations and corresponding memory responses for a fiber-reinforced functionally graded medium due to heat source. Mechanics Based Design of Structures and Machines, 2021, 49, 511-533.	4.7	16
36	Memory response on thermal wave propagation in an elastic solid with voids due to influence of magnetic field. Waves in Random and Complex Media, 2019, , 1-24.	2.7	14

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37	Fractional heat conduction with finite wave speed in a thermo-visco-elastic spherical shell. Latin American Journal of Solids and Structures, 2014, 11, 1132-1162.	1.0	14
38	Effect of nonlocality and memory responses in the thermoelastic problem with a Mode I crack. Waves in Random and Complex Media, 2020, , 1-26.	2.7	13
39	Elasto-thermodiffusive interaction subjected to rectangular thermal pulse and time-dependent chemical shock due to Caputo-Fabrizio heat transfer. Waves in Random and Complex Media, 2022, 32, 1228-1250.	2.7	11
40	Modeling and analysis of vibration of a gold nano-beam under two-temperature theor. Engineering Solid Mechanics, 2017, , 15-30.	1.2	10
41	Effect of hydrostatic pressure and memory effect on magneto-thermoelastic materials with two-temperatures. Waves in Random and Complex Media, 2022, 32, 906-935.	2.7	10
42	The memory effect on thermal wave propagation in a moving thin slab. Waves in Random and Complex Media, 2020, , 1-17.	2.7	9
43	The Caputoâ€Fabrizio heat transport law in vibration analysis of a microscale beam induced by laser. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000215.	1.6	9
44	Memory response on wave propagation in a micropolar magneto-thermo-viscoelastic half-space. Waves in Random and Complex Media, 2022, 32, 1468-1496.	2.7	8
45	Effect of non-locality in the vibration of a micro-scale beam under two-temperature memory responses. Waves in Random and Complex Media, 2022, 32, 2368-2395.	2.7	7
46	Transient heating in a spherical tissue due to thermal therapy in the context of memory-dependent heat transport law. Waves in Random and Complex Media, 2022, 32, 887-905.	2.7	7
47	Field equations and memory effects in a functionally graded magneto-thermoelastic rod. Mechanics Based Design of Structures and Machines, 2023, 51, 1408-1430.	4.7	5
48	Healing of the cancer tissues under the action of moving heat and non-local Caputo–Fabrizio heat transport. Waves in Random and Complex Media, 2022, 32, 2606-2621.	2.7	4
49	Three dimensional viscoelastic medium under thermal shock. Engineering Solid Mechanics, 2016, , 187-200.	1.2	3
50	Effect of nonlocality in the vibration of a microscale ribbon due to laser pulse. Waves in Random and Complex Media, 2022, 32, 2751-2775.	2.7	3
51	Thermal wave propagation in a two-dimensional problem under gravitational field due to time-dependent thermal loading and memory effect. Waves in Random and Complex Media, 2023, 33, 972-996.	2.7	2
52	Nonlocal effects in a functionally graded thermoelastic layer due to volumetric absorption laser. Waves in Random and Complex Media, 0, , 1-21.	2.7	2
53	Authors' reply to Comment on "Magneto-thermoelastic interaction in a reinforced medium with cylindrical cavity in the context of Caputo–Fabrizio heat transport law, S. Mondal, A. Sur, M. Kanoria, Acta Mech 230, 4367–4384 (2019)―by A. Pantokratoras. Acta Mechanica, 2021, 232, 353-354.	2.1	0