

# Abhik Sur

## List of Publications by Year in descending order

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53  
papers

1,252  
citations

304368

22  
h-index

433756

31  
g-index

53  
all docs

53  
docs citations

53  
times ranked

174  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-thermo-elastic wave propagation in an orthotropic semiconductor with a spherical cavity and memory responses. <i>Waves in Random and Complex Media</i> , 2021, 31, 1835-1858.	1.6	92
2	Fractional order two-temperature thermoelasticity with finite wave speed. <i>Acta Mechanica</i> , 2012, 223, 2685-2701.	1.1	56
3	Modeling of memory-dependent derivative in a fibre-reinforced plate. <i>Thin-Walled Structures</i> , 2018, 126, 85-93.	2.7	55
4	Finite element analysis in a fiber-reinforced cylinder due to memory-dependent heat transfer. <i>Acta Mechanica</i> , 2019, 230, 1607-1624.	1.1	47
5	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.	0.6	45
6	Modeling of memory-dependent derivative in a fiber-reinforced plate under gravitational effect. <i>Journal of Thermal Stresses</i> , 2018, 41, 973-992.	1.1	42
7	Magneto-thermoelastic interaction in a reinforced medium with cylindrical cavity in the context of Caputo's Fabrizio heat transport law. <i>Acta Mechanica</i> , 2019, 230, 4367-4384.	1.1	41
8	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.	1.1	41
9	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.	3.4	40
10	A memory response in the vibration of a microscale beam induced by laser pulse. <i>Journal of Thermal Stresses</i> , 2019, 42, 1415-1431.	1.1	39
11	Non-local memory-dependent heat conduction in a magneto-thermoelastic problem. <i>Waves in Random and Complex Media</i> , 2022, 32, 251-271.	1.6	37
12	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.	1.6	33
13	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.	3.4	31
14	Fibre-reinforced Magneto-thermoelastic Rotating Medium with Fractional Heat Conduction. <i>Procedia Engineering</i> , 2015, 127, 605-612.	1.2	30
15	Magneto-thermoelastic interaction in a functionally graded medium under gravitational field. <i>Waves in Random and Complex Media</i> , 2021, 31, 1633-1654.	1.6	30
16	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.	1.1	29
17	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.	0.9	29
18	Propagation of thermal waves in a functionally graded thick plate. <i>Mathematics and Mechanics of Solids</i> , 2017, 22, 718-736.	1.5	28

#	ARTICLE	IF	CITATIONS
19	Three-Dimensional Thermoelastic Problem Under Two-Temperature Theory. International Journal of Computational Methods, 2017, 14, 1750030.	0.8	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.	3.4	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.	3.4	26
23	Memory responses in a three-dimensional thermo-viscoelastic medium. Waves in Random and Complex Media, 2020, , 1-18.	1.6	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.	3.4	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.	1.6	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.	3.4	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.	0.1	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.	3.4	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.	1.6	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, .	1.0	20
32	Modeling of memory-dependent derivative in a functionally graded plate. Waves in Random and Complex Media, 2021, 31, 618-638.	1.6	19
33	Thermoelastic response of fiber-reinforced epoxy composite under continuous line heat source. Waves in Random and Complex Media, 2021, 31, 1749-1779.	1.6	16
34	A generalized thermoelastic problem due to nonlocal effect in presence of mode I crack. Journal of Thermal Stresses, 2020, 43, 1277-1299.	1.1	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.	3.4	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.	1.6	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.	0.6	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.	1.6	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.	1.6	11
40	Modeling and analysis of vibration of a gold nano-beam under two-temperature theor. Engineering Solid Mechanics, 2017, , 15-30.	0.6	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.	1.6	10
42	The memory effect on thermal wave propagation in a moving thin slab. Waves in Random and Complex Media, 2020, , 1-17.	1.6	9
43	The Caputo-Fabrizio heat transport law in vibration analysis of a microscale beam induced by laser. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000215.	0.9	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.	1.6	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.	1.6	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.	1.6	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.	3.4	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.	1.6	4
49	Three dimensional viscoelastic medium under thermal shock. Engineering Solid Mechanics, 2016, , 187-200.	0.6	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.	1.6	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.	1.6	2
52	Nonlocal effects in a functionally graded thermoelastic layer due to volumetric absorption laser. Waves in Random and Complex Media, 0, , 1-21.	1.6	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.	1.1	0