Abhik Sur

List of Publications by Citations

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	Fractional order two-temperature thermoelasticity with finite wave speed. *Acta Mechanica*, **2012**, 223, 2685-2701	2.1	54
52	Photo-thermo-elastic wave propagation in an orthotropic semiconductor with a spherical cavity and memory responses. *Waves in Random and Complex Media*, **2020**, 1-24	1.9	51
51	Modeling of memory-dependent derivative in a fibre-reinforced plate. *Thin-Walled Structures*, **2018**, 126, 85-93	4.7	47
50	Thermoelastic interaction in a viscoelastic functionally graded half-space under three-phase-lag model. *European Journal of Computational Mechanics*, **2014**, 23, 179-198	0.5	42
49	Finite element analysis in a fiber-reinforced cylinder due to memory-dependent heat transfer. *Acta Mechanica*, **2019**, 230, 1607-1624	2.1	41
48	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	37
47	Modeling of memory-dependent derivative in a fiber-reinforced plate under gravitational effect. *Journal of Thermal Stresses*, **2018**, 41, 973-992	2.2	36
46	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	1.7	33
45	A memory response in the vibration of a microscale beam induced by laser pulse. *Journal of Thermal Stresses*, **2019**, 42, 1415-1431	2.2	32
44	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	28
43	Fibre-reinforced Magneto-thermoelastic Rotating Medium with Fractional Heat Conduction. *Procedia Engineering*, **2015**, 127, 605-612		28
42	Elasto-thermodiffusive response in a spherical shell subjected to memory-dependent heat transfer. *Waves in Random and Complex Media*, **2021**, 31, 515-537	1.9	28
41	Propagation of thermal waves in a functionally graded thick plate. *Mathematics and Mechanics of Solids*, **2017**, 22, 718-736	2.3	25
40	Three-Dimensional Thermoelastic Problem Under Two-Temperature Theory. *International Journal of Computational Methods*, **2017**, 14, 1750030	1.1	25
39	Memory response on thermal wave propagation in an elastic solid with voids. *Mechanics Based Design of Structures and Machines*, **2020**, 48, 326-347	1.7	25
38	Modeling of Fibre-reinforced Magneto-thermoelastic Plate With Heat Sources. *Procedia Engineering*, **2017**, 173, 875-882		24
37	Magneto-thermoelastic interaction in a functionally graded medium under gravitational field. *Waves in Random and Complex Media*, **2019**, 1-22	1.9	23

36	Non-local memory-dependent heat conduction in a magneto-thermoelastic problem. *Waves in Random and Complex Media*, 1-21	1.9	22
35	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	2.2	22
34	Thermo-viscoelastic Interaction in a Three-dimensional Problem Subjected to Fractional Heat Conduction. *Procedia Engineering*, **2017**, 173, 851-858		21
33	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	0.6	21
32	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	1.7	21
31	Wave propagation analysis of porous asphalts on account of memory responses. *Mechanics Based Design of Structures and Machines*, **2020**, 1-19	1.7	20
30	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	1.7	19
29	Memory responses in a three-dimensional thermo-viscoelastic medium. *Waves in Random and Complex Media*, **2020**, 1-18	1.9	17
28	A memory response on the elasto-thermodiffusive interaction subjected to rectangular thermal pulse and chemical shock. *Mechanics Based Design of Structures and Machines*, **2020**, 1-22	1.7	17
27	Memory response in the vibration of a micro-scale beam due to time-dependent thermal loading. *Mechanics Based Design of Structures and Machines*, **2020**, 1-23	1.7	16
26	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	1.4	16
25	Modeling of memory-dependent derivative in a functionally graded plate. *Waves in Random and Complex Media*, **2019**, 1-21	1.9	15
24	Transient response in an elasto-thermo-diffusive medium in the context of memory-dependent heat transfer. *Waves in Random and Complex Media*, **2020**, 1-24	1.9	15
23	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, 2050002	0.8	15
22	Thermoelastic response of fiber-reinforced epoxy composite under continuous line heat source. *Waves in Random and Complex Media*, **2019**, 1-31	1.9	15
21	A graded spherical tissue under thermal therapy : the treatment of cancer cells. *Waves in Random and Complex Media*, **2020**, 1-20	1.9	14
20	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	1.7	14
19	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	1.9	13

18	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	1.4	12
17	A generalized thermoelastic problem due to nonlocal effect in presence of mode I crack. *Journal of Thermal Stresses*, **2020**, 43, 1277-1299	2.2	12
16	Effect of nonlocality and memory responses in the thermoelastic problem with a Mode I crack. *Waves in Random and Complex Media*, **2020**, 1-26	1.9	11
15	Effect of hydrostatic pressure and memory effect on magneto-thermoelastic materials with two-temperatures. *Waves in Random and Complex Media*, **2020**, 1-30	1.9	10
14	Modeling and analysis of vibration of a gold nano-beam under two-temperature theor. *Engineering Solid Mechanics*, **2017**, 15-30	1.3	8
13	The memory effect on thermal wave propagation in a moving thin slab. *Waves in Random and Complex Media*, **2020**, 1-17	1.9	7
12	Memory response on wave propagation in a micropolar magneto-thermo-viscoelastic half-space. *Waves in Random and Complex Media*, **2020**, 1-29	1.9	6
11	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*, **2020**, 1-23	1.9	6
10	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*, **2020**, 1-19	1.9	6
9	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	1	6
8	Healing of the cancer tissues under the action of moving heat and non-local Caputo-Fabrizio heat transport. *Waves in Random and Complex Media*, **2020**, 1-16	1.9	4
7	Effect of non-locality in the vibration of a micro-scale beam under two-temperature memory responses. *Waves in Random and Complex Media*, **2020**, 1-28	1.9	4
6	Three dimensional viscoelastic medium under thermal shock. *Engineering Solid Mechanics*, **2016**, 187-200	1.3	3
5	Effect of nonlocality in the vibration of a microscale ribbon due to laser pulse. *Waves in Random and Complex Media*, **2020**, 1-25	1.9	2
4	Field equations and memory effects in a functionally graded magneto-thermoelastic rod. *Mechanics Based Design of Structures and Machines*, 1-23	1.7	2
3	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*, 1-25	1.9	0
2	Nonlocal effects in a functionally graded thermoelastic layer due to volumetric absorption laser. *Waves in Random and Complex Media*, 1-21	1.9	
1	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	