

Nantu Sarkar

List of Publications by Year in Descending Order

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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.

60
papers

824
citations

16
h-index

26
g-index

62
ext. papers

1,035
ext. citations

1.9
avg, IF

5.58
L-index

#	Paper	IF	Citations
60	Vibration analysis of electro-magneto transversely isotropic non-local thermoelastic cylinder with voids material. <i>European Journal of Mechanics, A/Solids</i> , 2022 , 92, 104455	3.7	1
59	On the Analysis of Free Vibrations of Nonlocal Elastic Sphere of FGM Type in Generalized Thermoelasticity. <i>Journal of Vibration Engineering and Technologies</i> , 2021 , 9, 149-160	2	7
58	Effect of phase-lags on the transient waves in an axisymmetric functionally graded viscothermoelastic spherical cavity in radial direction. <i>International Journal of Dynamics and Control</i> , 2021 , 9, 424-437	1.7	6
57	Effect of three-phase-lag model on the analysis of three-dimensional free vibrations of viscothermoelastic solid cylinder. <i>Applied Mathematical Modelling</i> , 2021 , 90, 281-301	4.5	6
56	Analysis of three-dimensional free vibrations of isotropic visco-thermoelastic solid cylinder with two relaxation time parameters. <i>Journal of Thermal Stresses</i> , 2021 , 44, 107-132	2.2	3
55	Reflection of thermoelastic waves from the isothermal boundary of a solid half-space under memory-dependent heat transfer. <i>Waves in Random and Complex Media</i> , 2021 , 31, 731-748	1.9	2
54	Three-dimensional thermal shock problem in the frame of memory-dependent generalized thermoelasticity. <i>Indian Journal of Physics</i> , 2021 , 95, 459-469	1.4	3
53	Vibrations of a nonlocal thermoelastic cylinder with void. <i>Acta Mechanica</i> , 2020 , 231, 2931-2945	2.1	9
52	Free vibration analysis of a nonlocal thermoelastic hollow cylinder with diffusion. <i>Journal of Thermal Stresses</i> , 2020 , 43, 981-997	2.2	19
51	Waves in nonlocal thermoelastic solids of type III. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020 , 100, e201900074	1	1
50	Reflection of magneto-thermoelastic waves at a solid half-space under modified Green-Lindsay model with two temperatures. <i>Journal of Thermal Stresses</i> , 2020 , 43, 1083-1099	2.2	7
49	Thermoelastic plane waves under the modified Green-Lindsay model with two-temperature formulation. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020 , 100, e201900267	1	7
48	Thermoelastic responses of a nonlocal elastic rod due to nonlocal heat conduction. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020 , 100, e201900252	1	4
47	Vibration analysis of functionally graded thermoelastic nonlocal sphere with dual-phase-lag effect. <i>Acta Mechanica</i> , 2020 , 231, 1765-1781	2.1	10
46	Reflection of Thermoelastic Waves From the Insulated Surface of a Solid Half-Space With Time-Delay. <i>Journal of Heat Transfer</i> , 2020 , 142,	1.8	4
45	Thermoelastic responses of a finite rod due to nonlocal heat conduction. <i>Acta Mechanica</i> , 2020 , 231, 947-955	2.1	9
44	Two-dimensional problem of two-temperature generalized thermoelasticity using memory-dependent heat transfer: an integral transform approach. <i>Indian Journal of Physics</i> , 2020 , 94, 1965-1974	1.4	8

43	Reflection of plane waves in generalized thermoelasticity of type III with nonlocal effect. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 1313-1336	2.3	19
42	Effect of dual-phase-lag model on the vibration analysis of nonlocal generalized thermoelastic diffusive hollow sphere. <i>Waves in Random and Complex Media</i> , 2020 , 1-18	1.9	6
41	Memory-dependent derivatives (MDD) of magneto-thermal-elastic waves excited by laser pulses for two-temperature theory. <i>Waves in Random and Complex Media</i> , 2020 , 1-20	1.9	5
40	Effect of dual-phase-lag model on free vibrations of isotropic homogenous nonlocal thermoelastic hollow sphere with voids. <i>Mechanics Based Design of Structures and Machines</i> , 2020 , 1-17	1.7	5
39	Modified Green-Lindsay model on the reflection and propagation of thermoelastic plane waves at an isothermal stress-free surface. <i>Indian Journal of Physics</i> , 2020 , 94, 1215-1225	1.4	7
38	Plane waves in nonlocal thermoelastic solid with voids. <i>Journal of Thermal Stresses</i> , 2019 , 42, 580-606	2.2	47
37	Memory-dependent magneto-thermoelasticity for perfectly conducting two-dimensional elastic solids with thermal shock. <i>Journal of Ocean Engineering and Science</i> , 2019 , 4, 289-298	4.4	2
36	Waves in nonlocal thermoelastic solids of type II. <i>Journal of Thermal Stresses</i> , 2019 , 42, 1153-1170	2.2	23
35	Memory response in plane wave reflection in generalized magneto-thermoelasticity. <i>Journal of Electromagnetic Waves and Applications</i> , 2019 , 33, 1354-1374	1.3	5
34	Reflection of plane waves from the stress-free isothermal and insulated boundaries of a nonlocal thermoelastic solid. <i>Applied Mathematical Modelling</i> , 2019 , 73, 526-544	4.5	23
33	Transient responses in a two-temperature thermoelastic infinite medium having cylindrical cavity due to moving heat source with memory-dependent derivative. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2019 , 99, e201800343	1	33
32	Waves in dual-phase-lag thermoelastic materials with voids based on Eringen's nonlocal elasticity. <i>Journal of Thermal Stresses</i> , 2019 , 42, 1035-1050	2.2	59
31	Thermoelastic Interactions in a Slim Strip Due to a Moving Heat Source Under Dual-Phase-Lag Heat Transfer. <i>Journal of Heat Transfer</i> , 2019 , 141,	1.8	7
30	Two-temperature problem of a fiber-reinforced thermoelastic medium with a Mode-I crack under Green-Naghdi theory. <i>Microsystem Technologies</i> , 2019 , 25, 1357-1367	1.7	4
29	A two-dimensional magneto-thermoelastic problem based on a new two-temperature generalized thermoelasticity model with memory-dependent derivative. <i>Mechanics of Advanced Materials and Structures</i> , 2019 , 26, 957-966	1.8	26
28	Nonlocal theory of thermoelastic materials with voids and fractional derivative heat transfer. <i>Waves in Random and Complex Media</i> , 2019 , 29, 595-613	1.9	67
27	A 2D problem of time-fractional heat order for two-temperature thermoelasticity under hydrostatic initial stress. <i>Mechanics of Advanced Materials and Structures</i> , 2018 , 25, 279-285	1.8	6
26	Fundamental solution of the steady oscillations equations in porous thermoelastic medium with dual-phase-lag model. <i>Mechanics of Materials</i> , 2018 , 126, 140-147	3.3	31

25	Memory-dependent derivatives for photothermal semiconducting medium in generalized thermoelasticity with two-temperature. <i>Mechanics of Time-Dependent Materials</i> , 2017 , 21, 519-534	1.2	60
24	Wave propagation in an initially stressed elastic half-space solids under time-fractional order two-temperature magneto-thermoelasticity. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	13
23	Temperature Dependence of the Elastic Modulus in Three-Dimensional Generalized Thermoelasticity with Dual-Phase-Lag Effects. <i>Computational Mathematics and Modeling</i> , 2017 , 28, 208-227	0.5	3
22	The Effect of Hydrostatic Initial Stress on the Plane Waves in a Fiber-Reinforced Magneto-Thermoelastic Medium with Fractional Derivative Heat Transfer. <i>International Applied Mechanics</i> , 2016 , 52, 203-216	1	8
21	Plane wave propagation in a 3D anisotropic half-space under Green-Naghdi theory II. <i>Mathematical Models in Engineering</i> , 2016 , 2, 114-134	0.5	2
20	A novel Pennes bioheat transfer equation with memory-dependent derivative. <i>Mathematical Models in Engineering</i> , 2016 , 2, 151-157	0.5	5
19	Two-Dimensional Thermal Shock Problem of Generalized Magneto-Thermoelasticity with a Time-Fractional Heat Conduction Law. <i>Journal of Molecular and Engineering Materials</i> , 2016 , 04, 1650004 ¹⁻³	1.3	2
18	Fractional order thermoelastic interactions in an infinite porous material due to distributed time-dependent heat sources. <i>Meccanica</i> , 2015 , 50, 2167-2178	2.1	33
17	Generalized thermoelastic infinite medium with voids subjected to a instantaneous heat sources with fractional derivative heat transfer. <i>International Journal of Mechanical Sciences</i> , 2014 , 89, 84-91	5.5	42
16	Generalized Magneto-Thermoelasticity with Modified Ohm's Law Under Three Theories. <i>Computational Mathematics and Modeling</i> , 2014 , 25, 544-564	0.5	6
15	Analysis of Magneto-thermoelastic Response in a Fiber-Reinforced Elastic Solid Due to Hydrostatic Initial Stress and Gravity Field. <i>Journal of Thermal Stresses</i> , 2014 , 37, 387-404	2.2	7
14	Transient Disturbance in a Three-Dimensional Thermo-elastic Half-Space Under Green-Naghdi Theory. <i>Vietnam Journal of Mathematics</i> , 2013 , 41, 269-288	0.5	2
13	The effect of fractional parameter on a perfect conducting elastic half-space in generalized magneto-thermoelasticity. <i>Meccanica</i> , 2013 , 48, 231-245	2.1	15
12	On the discontinuity solution of the Lord-Shulman model in generalized thermoelasticity. <i>Applied Mathematics and Computation</i> , 2013 , 219, 10245-10252	2.7	11
11	Effect of fractional parameter on plane waves of generalized magneto-thermoelastic diffusion with reference temperature-dependent elastic medium. <i>Computers and Mathematics With Applications</i> , 2013 , 65, 1103-1118	2.7	26
10	The Effect of Gravity Field on the Plane Waves in a Fiber-Reinforced Two-Temperature Magneto-Thermoelastic Medium Under Lord-Shulman Theory. <i>Journal of Thermal Stresses</i> , 2013 , 36, 895-914	2.2	16
9	Interactions due to Moving Heat Sources in Generalized Thermoelastic Half-Space using L-S Model. <i>International Journal of Applied Mechanics and Engineering</i> , 2013 , 18, 815-831	0.6	4
8	On Discontinuities in Thermoelastic Plane Waves without Energy Dissipation Due to a Thermo-Mechanical Shock. <i>International Journal of Applied Mechanics and Engineering</i> , 2013 , 18, 503-519 ^{0.6}	0.6	4

7	Electromagneto-thermoelastic interactions in an orthotropic slab with two relaxation times. <i>Computational Mathematics and Modeling</i> , 2012 , 23, 461-477	0.5	10
6	A three-dimensional thermoelastic problem for a half-space without energy dissipation. <i>International Journal of Engineering Science</i> , 2012 , 51, 310-325	5.7	53
5	EFFECT OF FRACTIONAL PARAMETER ON PLANE WAVES IN A ROTATING ELASTIC MEDIUM UNDER FRACTIONAL ORDER GENERALIZED THERMOELASTICITY. <i>International Journal of Applied Mechanics</i> , 2012 , 04, 1250030	2.4	15
4	TEMPERATURE RATE DEPENDENT GENERALIZED THERMOELASTICITY WITH MODIFIED OHM'S LAW. <i>International Journal of Computational Materials Science and Engineering</i> , 2012 , 01, 1250031	0.3	3
3	Subclasses of spirallike multivalent functions. <i>Mathematical and Computer Modelling</i> , 2011 , 54, 3189-3196		1
2	LB theory for the propagation of the photo-thermal waves in a semiconducting nonlocal elastic medium. <i>Waves in Random and Complex Media</i> , 1-14	1.9	5
1	Interactions in a nonlocal thermoelastic hollow sphere with voids due to harmonically varying heat sources. <i>Waves in Random and Complex Media</i> , 1-16	1.9	0