

# Nantu Sarkar

## List of Publications by Citations

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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	Nonlocal theory of thermoelastic materials with voids and fractional derivative heat transfer. <i>Waves in Random and Complex Media</i> , <b>2019</b> , 29, 595-613	1.9	67
59	Memory-dependent derivatives for photothermal semiconducting medium in generalized thermoelasticity with two-temperature. <i>Mechanics of Time-Dependent Materials</i> , <b>2017</b> , 21, 519-534	1.2	60
58	Waves in dual-phase-lag thermoelastic materials with voids based on Eringen's nonlocal elasticity. <i>Journal of Thermal Stresses</i> , <b>2019</b> , 42, 1035-1050	2.2	59
57	A three-dimensional thermoelastic problem for a half-space without energy dissipation. <i>International Journal of Engineering Science</i> , <b>2012</b> , 51, 310-325	5.7	53
56	Plane waves in nonlocal thermoelastic solid with voids. <i>Journal of Thermal Stresses</i> , <b>2019</b> , 42, 580-606	2.2	47
55	Generalized thermoelastic infinite medium with voids subjected to a instantaneous heat sources with fractional derivative heat transfer. <i>International Journal of Mechanical Sciences</i> , <b>2014</b> , 89, 84-91	5.5	42
54	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> , <b>2019</b> , 99, e201800343	1	33
53	Fractional order thermoelastic interactions in an infinite porous material due to distributed time-dependent heat sources. <i>Meccanica</i> , <b>2015</b> , 50, 2167-2178	2.1	33
52	Fundamental solution of the steady oscillations equations in porous thermoelastic medium with dual-phase-lag model. <i>Mechanics of Materials</i> , <b>2018</b> , 126, 140-147	3.3	31
51	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> , <b>2013</b> , 65, 1103-1118	2.7	26
50	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> , <b>2019</b> , 26, 957-966	1.8	26
49	Waves in nonlocal thermoelastic solids of type II. <i>Journal of Thermal Stresses</i> , <b>2019</b> , 42, 1153-1170	2.2	23
48	Reflection of plane waves from the stress-free isothermal and insulated boundaries of a nonlocal thermoelastic solid. <i>Applied Mathematical Modelling</i> , <b>2019</b> , 73, 526-544	4.5	23
47	Free vibration analysis of a nonlocal thermoelastic hollow cylinder with diffusion. <i>Journal of Thermal Stresses</i> , <b>2020</b> , 43, 981-997	2.2	19
46	Reflection of plane waves in generalized thermoelasticity of type III with nonlocal effect. <i>Mathematical Methods in the Applied Sciences</i> , <b>2020</b> , 43, 1313-1336	2.3	19
45	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> , <b>2013</b> , 36, 895-914	2.2	16
44	The effect of fractional parameter on a perfect conducting elastic half-space in generalized magneto-thermoelasticity. <i>Meccanica</i> , <b>2013</b> , 48, 231-245	2.1	15

43	EFFECT OF FRACTIONAL PARAMETER ON PLANE WAVES IN A ROTATING ELASTIC MEDIUM UNDER FRACTIONAL ORDER GENERALIZED THERMOELASTICITY. <i>International Journal of Applied Mechanics</i> , <b>2012</b> , 04, 1250030	2.4	15
42	Wave propagation in an initially stressed elastic half-space solids under time-fractional order two-temperature magneto-thermoelasticity. <i>European Physical Journal Plus</i> , <b>2017</b> , 132, 1	3.1	13
41	On the discontinuity solution of the Lord-Shulman model in generalized thermoelasticity. <i>Applied Mathematics and Computation</i> , <b>2013</b> , 219, 10245-10252	2.7	11
40	Vibration analysis of functionally graded thermoelastic nonlocal sphere with dual-phase-lag effect. <i>Acta Mechanica</i> , <b>2020</b> , 231, 1765-1781	2.1	10
39	Electromagneto-thermoelastic interactions in an orthotropic slab with two relaxation times. <i>Computational Mathematics and Modeling</i> , <b>2012</b> , 23, 461-477	0.5	10
38	Vibrations of a nonlocal thermoelastic cylinder with void. <i>Acta Mechanica</i> , <b>2020</b> , 231, 2931-2945	2.1	9
37	Thermoelastic responses of a finite rod due to nonlocal heat conduction. <i>Acta Mechanica</i> , <b>2020</b> , 231, 947-955	2.1	9
36	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> , <b>2016</b> , 52, 203-216	1	8
35	Two-dimensional problem of two-temperature generalized thermoelasticity using memory-dependent heat transfer: an integral transform approach. <i>Indian Journal of Physics</i> , <b>2020</b> , 94, 1965-1974	1.4	8
34	Reflection of magneto-thermoelastic waves at a solid half-space under modified Green-Lindsay model with two temperatures. <i>Journal of Thermal Stresses</i> , <b>2020</b> , 43, 1083-1099	2.2	7
33	Thermoelastic plane waves under the modified Green-Lindsay model with two-temperature formulation. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , <b>2020</b> , 100, e201900267	1	7
32	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> , <b>2014</b> , 37, 387-404	2.2	7
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> , <b>2019</b> , 141,	1.8	7
30	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> , <b>2020</b> , 94, 1215-1225	1.4	7
29	On the Analysis of Free Vibrations of Nonlocal Elastic Sphere of FGM Type in Generalized Thermoelasticity. <i>Journal of Vibration Engineering and Technologies</i> , <b>2021</b> , 9, 149-160	2	7
28	A 2D problem of time-fractional heat order for two-temperature thermoelasticity under hydrostatic initial stress. <i>Mechanics of Advanced Materials and Structures</i> , <b>2018</b> , 25, 279-285	1.8	6
27	Generalized Magneto-Thermoelasticity with Modified Ohm's Law Under Three Theories. <i>Computational Mathematics and Modeling</i> , <b>2014</b> , 25, 544-564	0.5	6
26	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> , <b>2020</b> , 1-18	1.9	6

25	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> , <b>2021</b> , 9, 424-437	1.7	6
24	Effect of three-phase-lag model on the analysis of three-dimensional free vibrations of viscothermoelastic solid cylinder. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 90, 281-301	4.5	6
23	Memory response in plane wave reflection in generalized magneto-thermoelasticity. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2019</b> , 33, 1354-1374	1.3	5
22	A novel Pennes bioheat transfer equation with memory-dependent derivative. <i>Mathematical Models in Engineering</i> , <b>2016</b> , 2, 151-157	0.5	5
21	LS 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
20	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> , <b>2020</b> , 1-20	1.9	5
19	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> , <b>2020</b> , 1-17	1.7	5
18	Thermoelastic responses of a nonlocal elastic rod due to nonlocal heat conduction. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , <b>2020</b> , 100, e201900252	1	4
17	Interactions due to Moving Heat Sources in Generalized Thermoelastic Half-Space using L-S Model. <i>International Journal of Applied Mechanics and Engineering</i> , <b>2013</b> , 18, 815-831	0.6	4
16	Reflection of Thermoelastic Waves From the Insulated Surface of a Solid Half-Space With Time-Delay. <i>Journal of Heat Transfer</i> , <b>2020</b> , 142,	1.8	4
15	Two-temperature problem of a fiber-reinforced thermoelastic medium with a Mode-I crack under Green-Naghdi theory. <i>Microsystem Technologies</i> , <b>2019</b> , 25, 1357-1367	1.7	4
14	Temperature Dependence of the Elastic Modulus in Three-Dimensional Generalized Thermoelasticity with Dual-Phase-Lag Effects. <i>Computational Mathematics and Modeling</i> , <b>2017</b> , 28, 208-227	0.5	3
13	TEMPERATURE RATE DEPENDENT GENERALIZED THERMOELASTICITY WITH MODIFIED OHM'S LAW. <i>International Journal of Computational Materials Science and Engineering</i> , <b>2012</b> , 01, 1250031	0.3	3
12	Analysis of three-dimensional free vibrations of isotropic visco-thermoelastic solid cylinder with two relaxation time parameters. <i>Journal of Thermal Stresses</i> , <b>2021</b> , 44, 107-132	2.2	3
11	Three-dimensional thermal shock problem in the frame of memory-dependent generalized thermoelasticity. <i>Indian Journal of Physics</i> , <b>2021</b> , 95, 459-469	1.4	3
10	Memory-dependent magneto-thermoelasticity for perfectly conducting two-dimensional elastic solids with thermal shock. <i>Journal of Ocean Engineering and Science</i> , <b>2019</b> , 4, 289-298	4.4	2
9	Transient Disturbance in a Three-Dimensional Thermo-elastic Half-Space Under Green-Naghdi Theory. <i>Vietnam Journal of Mathematics</i> , <b>2013</b> , 41, 269-288	0.5	2
8	Plane wave propagation in a 3D anisotropic half-space under Green-Naghdi theory II. <i>Mathematical Models in Engineering</i> , <b>2016</b> , 2, 114-134	0.5	2

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| 7 | Two-Dimensional Thermal Shock Problem of Generalized Magneto-Thermoelasticity with a Time-Fractional Heat Conduction Law. <i>Journal of Molecular and Engineering Materials</i> , <b>2016</b> , 04, 1650004 <sup>1,3</sup> | 2     |
| 6 | 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> , <b>2021</b> , 31, 731-748                            | 1.9 2 |
| 5 | Waves in nonlocal thermoelastic solids of type III. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , <b>2020</b> , 100, e201900074   | 1 1   |
| 4 | Subclasses of spirallike multivalent functions. <i>Mathematical and Computer Modelling</i> , <b>2011</b> , 54, 3189-3196   | 1     |
| 3 | Vibration analysis of electro-magneto transversely isotropic non-local thermoelastic cylinder with voids material. <i>European Journal of Mechanics, A/Solids</i> , <b>2022</b> , 92, 104455                               | 3.7 1 |
| 2 | 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 |
| 1 | On Discontinuities in Thermoelastic Plane Waves without Energy Dissipation Due to a Thermo-Mechanical Shock. <i>International Journal of Applied Mechanics and Engineering</i> , <b>2013</b> , 18, 503-519 <sup>0.6</sup>  |       |