Nantu Sarkar

List of Publications by Year
in descending order

62	1,236	471061 17	454577 30
papers	citations	h-index	g-index

62	62	62	226
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonlocal theory of thermoelastic materials with voids and fractional derivative heat transfer. Waves in Random and Complex Media, 2019, 29, 595-613.	1.6	111
2	Memory-dependent derivatives for photothermal semiconducting medium in generalized thermoelasticity with two-temperature. Mechanics of Time-Dependent Materials, 2017, 21, 519-534.	2.3	77
3	Waves in dual-phase-lag thermoelastic materials with voids based on Eringenâ€™s nonlocal elasticity. Journal of Thermal Stresses, 2019, 42, 1035-1050.	1.1	77
4	Plane waves in nonlocal thermoelastic solid with voids. Journal of Thermal Stresses, 2019, 42, 580-606.	1.1	71
5	A three-dimensional thermoelastic problem for a half-space without energy dissipation. International Journal of Engineering Science, 2012, 51, 310-325.	2.7	64
6	Generalized thermoelastic infinite medium with voids subjected to a instantaneous heat sources with fractional derivative heat transfer. International Journal of Mechanical Sciences, 2014, 89, 84-91.	3.6	54
7	Fundamental solution of the steady oscillations equations in porous thermoelastic medium with dual-phase-lag model. Mechanics of Materials, 2018, 126, 140-147.	1.7	44
8	Transient responses in a twoâ€temperature thermoelastic infinite medium having cylindrical cavity due to moving heat source with memoryâ€dependent derivative. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201800343.	0.9	41
9	Fractional order thermoelastic interactions in an infinite porous material due to distributed time-dependent heat sources. Meccanica, 2015, 50, 2167-2178.	1.2	40
10	Free vibration analysis of a nonlocal thermoelastic hollow cylinder with diffusion. Journal of Thermal Stresses, 2020, 43, 981-997.	1.1	40
11	Effect of fractional parameter on plane waves of generalized magnetoâ€“thermoelastic diffusion with reference temperature-dependent elastic medium. Computers and Mathematics With Applications, 2013, 65, 1103-1118.	1.4	38
12	A two-dimensional magneto-thermoelastic problem based on a new two-temperature generalized thermoelasticity model with memory-dependent derivative. Mechanics of Advanced Materials and Structures, 2019, 26, 957-966.	1.5	35
13	Reflection of plane waves from the stress-free isothermal and insulated boundaries of a nonlocal thermoelastic solid. Applied Mathematical Modelling, 2019, 73, 526-544.	2.2	34
14	Waves in nonlocal thermoelastic solids of type II. Journal of Thermal Stresses, 2019, 42, 1153-1170.	1.1	31
15	Reflection of plane waves in generalized thermoelasticity of type III with nonlocal effect. Mathematical Methods in the Applied Sciences, 2020, 43, 1313-1336.	1.2	25
16	Lâ€“S theory for the propagation of the photo-thermal waves in a semiconducting nonlocal elastic medium. Waves in Random and Complex Media, 2022, 32, 2622-2635.	1.6	23
17	Vibration analysis of functionally graded thermoelastic nonlocal sphere with dual-phase-lag effect. Acta Mechanica, 2020, 231, 1765-1781.	1.1	19
18	The Effect of Gravity Field on the Plane Waves in a Fiber-Reinforced Two-Temperature Magneto-Thermoelastic Medium Under Lord-Shulman Theory. Journal of Thermal Stresses, 2013, 36, 895-914.	1.1	18

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19	Vibrations of a nonlocal thermoelastic cylinder with void. Acta Mechanica, 2020, 231, 2931-2945.	1.1	17
20	On the Analysis of Free Vibrations of Nonlocal Elastic Sphere of FGM Type in Generalized Thermoelasticity. Journal of Vibration Engineering and Technologies, 2021, 9, 149-160.	1.3	17
21	EFFECT OF FRACTIONAL PARAMETER ON PLANE WAVES IN A ROTATING ELASTIC MEDIUM UNDER FRACTIONAL ORDER GENERALIZED THERMOELASTICITY. International Journal of Applied Mechanics, 2012, 04, 1250030.	1.3	16
22	The effect of fractional parameter on a perfect conducting elastic half-space in generalized magneto-thermoelasticity. Meccanica, 2013, 48, 231-245.	1.2	16
23	Wave propagation in an initially stressed elastic half-space solids under time-fractional order two-temperature magneto-thermoelasticity. European Physical Journal Plus, 2017, 132, 1.	1.2	16
24	Thermoelastic plane waves under the modified Greenâ€“Lindsay model with twoâ€temperature formulation. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900267.	0.9	16
25	Thermoelastic responses of a nonlocal elastic rod due to nonlocal heat conduction. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900252.	0.9	15
26	Effect of three-phase-lag model on the analysis of three-dimensional free vibrations of viscothermoelastic solid cylinder. Applied Mathematical Modelling, 2021, 90, 281-301.	2.2	14
27	Thermoelastic responses of a finite rod due to nonlocal heat conduction. Acta Mechanica, 2020, 231, 947-955.	1.1	13
28	Two-dimensional problem of two-temperature generalized thermoelasticity using memory-dependent heat transfer: an integral transform approach. Indian Journal of Physics, 2020, 94, 1965-1974.	0.9	13
29	Reflection of magneto-thermoelastic waves at a solid half-space under modified Greenâ€“Lindsay model with two temperatures. Journal of Thermal Stresses, 2020, 43, 1083-1099.	1.1	13
30	Effect of phase-lags on the transient waves in an axisymmetric functionally graded viscothermoelastic spherical cavity in radial direction. International Journal of Dynamics and Control, 2021, 9, 424-437.	1.5	13
31	Modified Greenâ€“Lindsay model on the reflection and propagation of thermoelastic plane waves at an isothermal stress-free surface. Indian Journal of Physics, 2020, 94, 1215-1225.	0.9	12
32	Electromagneto-thermoelastic interactions in an orthotropic slab with two relaxation times. Computational Mathematics and Modeling, 2012, 23, 461-477.	0.2	11
33	On the discontinuity solution of the Lordâ€“Shulman model in generalized thermoelasticity. Applied Mathematics and Computation, 2013, 219, 10245-10252.	1.4	11
34	Effect of dual-phase-lag model on the vibration analysis of nonlocal generalized thermoelastic diffusive hollow sphere. Waves in Random and Complex Media, 2020, , 1-18.	1.6	11
35	The Effect of Hydrostatic Initial Stress on the Plane Waves in a Fiber-Reinforced Magneto-Thermoelastic Medium with Fractional Derivative Heat Transfer. International Applied Mechanics, 2016, 52, 203-216.	0.2	10
36	Effect of dual-phase-lag model on free vibrations of isotropic homogenous nonlocal thermoelastic hollow sphere with voids. Mechanics Based Design of Structures and Machines, 2020, , 1-17.	3.4	10

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37	Analysis of Magnetothermoelastic Response in a Fiber-Reinforced Elastic Solid Due to Hydrostatic Initial Stress and Gravity Field. Journal of Thermal Stresses, 2014, 37, 387-404.	1.1	9
38	Memory response in plane wave reflection in generalized magneto-thermoelasticity. Journal of Electromagnetic Waves and Applications, 2019, 33, 1354-1374.	1.0	9
39	Thermoelastic Interactions in a Slim Strip Due to a Moving Heat Source Under Dual-Phase-Lag Heat Transfer. Journal of Heat Transfer, 2019, 141, .	1.2	9
40	Reflection of Thermoelastic Waves From the Insulated Surface of a Solid Half-Space With Time-Delay. Journal of Heat Transfer, 2020, 142, .	1.2	9
41	A novel Pennesâ€™ bioheat transfer equation with memory-dependent derivative. Mathematical Models in Engineering, 2016, 2, 151-157.	0.1	9
42	Generalized Magneto-Thermoelasticity with Modified Ohmâ€™s Law Under Three Theories. Computational Mathematics and Modeling, 2014, 25, 544-564.	0.2	8
43	Vibration analysis of electro-magneto transversely isotropic non-local thermoelastic cylinder with voids material. European Journal of Mechanics, A/Solids, 2022, 92, 104455.	2.1	8
44	Plane waves in nonlocal generalized thermoelasticity. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, .	0.9	8
45	A 2D problem of time-fractional heat order for two-temperature thermoelasticity under hydrostatic initial stress. Mechanics of Advanced Materials and Structures, 2018, 25, 279-285.	1.5	7
46	Memory-dependent magnetoâ€“thermoelasticity for perfectly conducting two-dimensional elastic solids with thermal shock. Journal of Ocean Engineering and Science, 2019, 4, 289-298.	1.7	7
47	Memory-dependent derivatives (MDD) of magneto-thermal-elastic waves excited by laser pulses for two-temperature theory. Waves in Random and Complex Media, 2020, , 1-20.	1.6	7
48	Nonlocal elasticity and thermal dualâ€phaseâ€lag effect on the vibration analysis of transversely isotropic electroâ€magneto generalized thermoelastic sphere with voids. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, .	0.9	7
49	Waves in nonlocal thermoelastic solids of type III. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900074.	0.9	6
50	Analysis of threeâ€“dimensional free vibrations of isotropic visco-thermoelastic solid cylinder with two relaxation time parameters. Journal of Thermal Stresses, 2021, 44, 107-132.	1.1	6
51	Reflection of thermoelastic waves from the isothermal boundary of a solid half-space under memory-dependent heat transfer. Waves in Random and Complex Media, 2021, 31, 731-748.	1.6	6
52	TEMPERATURE RATE DEPENDENT GENERALIZED THERMOELASTICITY WITH MODIFIED OHM'S LAW. International Journal of Computational Materials Science and Engineering, 2012, 01, 1250031.	0.5	5
53	Two-temperature problem of a fiber-reinforced thermoelastic medium with a Mode-I crack under Greenâ€“Naghdi theory. Microsystem Technologies, 2019, 25, 1357-1367.	1.2	5
54	Subclasses of spirallike multivalent functions. Mathematical and Computer Modelling, 2011, 54, 3189-3196.	2.0	4

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55	Interactions due to Moving Heat Sources in Generalized Thermoelastic Half-Space using L-S Model. International Journal of Applied Mechanics and Engineering, 2013, 18, 815-831.	0.3	4
56	Three-dimensional thermal shock problem in the frame of memory-dependent generalized thermoelasticity. Indian Journal of Physics, 2021, 95, 459-469.	0.9	4
57	Two-Dimensional Thermal Shock Problem of Generalized Magneto-Thermoelasticity with a Time-Fractional Heat Conduction Law. Journal of Molecular and Engineering Materials, 2016, 04, 1650004.	0.9	3
58	Temperature Dependence of the Elastic Modulus in Three-Dimensional Generalized Thermoelasticity with Dual-Phase-Lag Effects. Computational Mathematics and Modeling, 2017, 28, 208-227.	0.2	3
59	Interactions in a nonlocal thermoelastic hollow sphere with voids due to harmonically varying heat sources. Waves in Random and Complex Media, 0, , 1-16.	1.6	3
60	Transient Disturbance in a Three-Dimensional Thermo-elastic Half-Space Under Greenâ€“Naghdi Theory. Vietnam Journal of Mathematics, 2013, 41, 269-288.	0.4	2
61	Plane wave propagation in a 3D anisotropic half-space under Green-Naghdi theory II. Mathematical Models in Engineering, 2016, 2, 114-134.	0.1	2
62	On Discontinuties in Thermoelastic Plane Waves without Energy Dissipation Due to a Thermo-Mechanical Shock. International Journal of Applied Mechanics and Engineering, 2013, 18, 503-519.	0.3	0