

# Siddhartha Biswas

## List of Publications by Citations

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38  
papers

355  
citations

12  
h-index

17  
g-index

39  
ext. papers

429  
ext. citations

2  
avg, IF

5.42  
L-index

#	Paper	IF	Citations
38	Rayleigh surface wave propagation in orthotropic thermoelastic solids under three-phase-lag model. <i>Journal of Thermal Stresses</i> , <b>2017</b> , 40, 403-419	2.2	37
37	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
36	Fundamental solution of steady oscillations for porous materials with dual-phase-lag model in micropolar thermoelasticity. <i>Mechanics Based Design of Structures and Machines</i> , <b>2019</b> , 47, 430-452	1.7	26
35	Modeling of memory-dependent derivatives in orthotropic medium with three-phase-lag model under the effect of magnetic field. <i>Mechanics Based Design of Structures and Machines</i> , <b>2019</b> , 47, 302-318	1.7	24
34	Effect of phase-lags on Rayleigh wave propagation in initially stressed magneto-thermoelastic orthotropic medium. <i>Applied Mathematical Modelling</i> , <b>2018</b> , 59, 713-727	4.5	24
33	Eigenfunction expansion method to analyze thermal shock behavior in magneto-thermoelastic orthotropic medium under three theories. <i>Journal of Thermal Stresses</i> , <b>2018</b> , 41, 366-382	2.2	22
32	Surface waves in porous nonlocal thermoelastic orthotropic medium. <i>Acta Mechanica</i> , <b>2020</b> , 231, 2741-2760	2.6	19
31	Effect of rotation on Rayleigh waves in magneto-thermoelastic transversely isotropic medium with thermal relaxation times. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2017</b> , 31, 1485-1507	1.3	18
30	Effect of rotation in magneto-thermoelastic transversely isotropic hollow cylinder with three-phase-lag model. <i>Mechanics Based Design of Structures and Machines</i> , <b>2019</b> , 47, 234-254	1.7	17
29	Thermal shock response in magneto-thermoelastic orthotropic medium with three-phase-lag model. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2017</b> , 31, 879-897	1.3	15
28	Stroh analysis of Rayleigh waves in anisotropic thermoelastic medium. <i>Journal of Thermal Stresses</i> , <b>2018</b> , 41, 627-644	2.2	15
27	Eigenfunction expansion method to characterize Rayleigh wave propagation in orthotropic medium with phase lags. <i>Waves in Random and Complex Media</i> , <b>2019</b> , 29, 722-742	1.9	15
26	Surface waves in nonlocal thermoelastic medium with state space approach. <i>Journal of Thermal Stresses</i> , <b>2020</b> , 43, 667-686	2.2	12
25	Rayleigh waves in a nonlocal thermoelastic layer lying over a nonlocal thermoelastic half-space. <i>Acta Mechanica</i> , <b>2020</b> , 231, 4129-4144	2.1	9
24	Fundamental solution of steady oscillations equations in nonlocal thermoelastic medium with voids. <i>Journal of Thermal Stresses</i> , <b>2020</b> , 43, 284-304	2.2	8
23	Three-dimensional vibration analysis of porous cylindrical panel with a three-phase-lag model. <i>Waves in Random and Complex Media</i> , <b>2019</b> , 1-26	1.9	7
22	Fundamental solution of steady oscillations in thermoelastic medium with voids. <i>Waves in Random and Complex Media</i> , <b>2020</b> , 30, 759-775	1.9	7

21	The propagation of plane waves in nonlocal visco-thermoelastic porous medium based on nonlocal strain gradient theory. <i>Waves in Random and Complex Media</i> , 1-32	1.9	6
20	Thermal shock problem in porous orthotropic medium with three-phase-lag model. <i>Indian Journal of Physics</i> , <b>2021</b> , 95, 289-298	1.4	6
19	Three-dimensional nonlocal thermoelasticity in orthotropic medium based on Eringen's nonlocal elasticity. <i>Waves in Random and Complex Media</i> , <b>2020</b> , 1-22	1.9	4
18	Eigenvalue approach to a magneto-thermoelastic problem in transversely isotropic hollow cylinder: comparison of three theories. <i>Waves in Random and Complex Media</i> , <b>2021</b> , 31, 403-419	1.9	4
17	Surface waves in piezothermoelastic transversely isotropic layer lying over piezothermoelastic transversely isotropic half-space. <i>Acta Mechanica</i> , <b>2021</b> , 232, 373-387	2.1	4
16	A thermodynamic framework to analyze the thermal shock response in an anisotropic hollow cylinder with energy dissipation. <i>Multidiscipline Modeling in Materials and Structures</i> , <b>2018</b> , 14, 410-430	2.2	3
15	Three-dimensional vibration analysis in transversely isotropic cylinder with matrix Frobenius method. <i>Journal of Thermal Stresses</i> , <b>2019</b> , 42, 1207-1228	2.2	3
14	P, T, and SV wave propagation at the interface between solid-liquid media with magnetic field and initial stress in the context of three-phase-lag model. <i>Mechanics of Advanced Materials and Structures</i> , <b>2020</b> , 27, 165-175	1.8	3
13	Surface waves in porous thermoelastic medium with two relaxation times. <i>Mechanics Based Design of Structures and Machines</i> , <b>2020</b> , 1-19	1.7	2
12	Electromagneto-thermoelastic interactions in initially stressed orthotropic medium with Green-Naghdi model type-III. <i>Mechanics Based Design of Structures and Machines</i> , <b>2020</b> , 1-16	1.7	2
11	Thermoelastic interaction in unbounded transversely isotropic medium containing spherical cavity with energy dissipation. <i>Indian Journal of Physics</i> , <b>2021</b> , 95, 705-716	1.4	2
10	Rayleigh waves in a magneto-thermoelastic anisotropic half-space. <i>Journal of Thermal Stresses</i> , <b>2021</b> , 44, 197-213	2.2	2
9	Rayleigh waves in porous nonlocal orthotropic thermoelastic layer lying over porous nonlocal orthotropic thermoelastic half space. <i>Waves in Random and Complex Media</i> , 1-27	1.9	2
8	A Scalable Hierarchical Ring Based Wireless Network-on-Chip <b>2016</b> ,		1
7	Three-dimensional thermoelastic problem in orthotropic medium. <i>Journal of Thermal Stresses</i> , <b>2020</b> , 43, 21-37	2.2	1
6	Eigenvalue approach to hyperbolic thermoelastic problem in porous orthotropic medium with Green-Lindsay model. <i>Mechanics Based Design of Structures and Machines</i> , <b>2020</b> , 1-17	1.7	1
5	State Space Approach to Thermoelastic Problem with Three-Phase-Lag Model. <i>International Applied Mechanics</i> , <b>2020</b> , 56, 240-252	1	1
4	Modeling of memory-dependent derivatives with the state-space approach. <i>Multidiscipline Modeling in Materials and Structures</i> , <b>2019</b> , 16, 657-677	2.2	1

- 3 Vibration analysis of transversely isotropic hollow cylinder considering three different theories using the matrix Frobenius method. *Multidiscipline Modeling in Materials and Structures*, **2019**, 15, 1212-1237 1
- 2 Reflection of P waves in porous thermoelastic medium with three-phase-lag model. *Waves in Random and Complex Media*, **2020**, 1-19 1.9 0
- 1 State space approach to characterize Rayleigh waves in a layer lying over a half-space with nonlocal thermoelasticity. *Waves in Random and Complex Media*, 1-27 1.9