

List of Publications (S. A. Sahu)

(A) In peer reviewed journals

1. Shukla, S. and Sahu, S.A., (2026). Closed Form Analysis of SH Wave Propagation in Viscous Loaded Flexomagnetic–Piezomagnetic Plate with Microstructural Substrate Effects. *The European Physical Journal Plus* (Accepted).
2. Kirti and Sahu, S.A. (2026). Impact of structural imperfections on wave scattering at the interface of thermally conducting piezoelectric and piezomagnetic solids. *Journal of Engineering Mechanics* (Accepted).
3. Shukla, S. and Sahu, S.A., (2026). Dynamic tuning of shear horizontal waves in flexoelectric–piezoelectric composites with imperfect interfaces on semiconductor substrates. *Composite Structures*. doi: 10.1016/j.compstruct.2026.120061.
4. Karmakar, S., Sahu, S.A., Mondal, S. and Nirwal, S., (2026). Continuum analysis of SH waves in energy harvester having FGME layered structures with non-planar boundaries: S. Karmakar et al. *Acta Mechanica*. doi: 10.1007/s00707-026-04647-z.
5. Kumari, S., Sahu, S.A. and Biswas, M., (2025). SH wave analysis in nanoscale piezoelectric composite loaded with viscous liquid. *Mechanics Based Design of Structures and Machines*. doi: 10.1080/15397734.2025.2562326.
6. Murshid AK, M., Sahu, S.A., Mondal, S. and Das, S., (2025) 'Green's function approach for wave propagation due to a point source in piezoelectric fiber-reinforced composite with complex fluid loading', *ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik*, 105(6), p.e70130.
7. Biswas, M. and Sahu, S.A., 2025. On the Rayleigh wave velocity in n-type piezoelectric semiconductors with enhanced flexoelectricity. *Mathematics and Mechanics of Solids*, 30(12), pp.2822-2842.
8. Dewangan, N., Sahu, S.A. and Chaudhary, S. (2025) 'Stress generation due to moving load on gravitational magneto-elastic orthotropic half-space with parabolic irregularity', *Journal of Solid Mechanics*, 17(1), pp. 1–16.
9. Nath, A., Sahu, S.A. and Dhua, S., 2025. Analysis of transverse shear wave in pre-stressed piezoelectric fiber-reinforced composite cylindrical models with non-ideal interface: a comparative study. *Acta Mechanica Sinica*, 41(11), p.524066.
10. Kirti and Sahu, S.A. (2024) 'On plane wave scattering at the piezothermoelastic half-space with impedance boundary condition', *Acta Mechanica*, 235, pp. 6569–6584.
11. Shukla, S. and Sahu, S.A. (2024) 'Shear wave velocity in a functionally graded piezoelectric semiconductor plate clamped on a rigid base', *Smart Materials and Structures*, 33(10), p. 105006.
12. Biswas, M. and Sahu, S.A. (2024) 'Longitudinal plane wave amplitude in N-type semiconductors with inviscid liquid loading and impedance boundary', *Mechanics of Advanced Materials and Structures*, 32(9), pp. 1959–1974.

13. Biswas, M. and Sahu, S.A. (2024) 'Phase velocity shifts of shear surface waves in flexoelectric wave-guide clamped on piezomagnetic base', *Physica Scripta*, 99(9), p. 095232.
14. Biswas, M. and Sahu, S.A., 2024. Multimodal frequency and phase velocity spectrum of shear wave in microstructural flexomagnetic plate loaded with complex fluid. *Acta Mechanica*, 235(5), pp.3219-3230.
15. Biswas, M., and Sahu, S. A. (2024). Response of surface effect on plane wave reflection at the boundary of flexomagnetic substrate. *Mechanics of Advanced Materials and Structures*, 31(29), 11289–11308.
16. Biswas, M. and Sahu, S.A., 2024. Plane wave reflection in micro-structural piezomagnetic-flexomagnetic solid with impedance boundary conditions. *Mechanics Based Design of Structures and Machines*, 52(10), pp.7283-7305.
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18. Paswan, B., Singh, P., Sahu, S.A. and Chattopadhyay, A. (2023) 'Dynamic response of imperfect interfaces on the reflection and transmission of the waves in context of generalised thermo-elasticity', *Acta Mechanica*, 234, pp. 6041–6068.
19. Baroi, J. and Sahu, S.A. (2023) 'Analysis of higher modes of Rayleigh-type waves in fibre-piezo thermoelastic composite structure', *Journal of Thermal Stresses*, 46(9), pp. 839–856.
20. Karmakar, S., Sahu, S.A. and Goyal, S. (2022) 'Reflection and refraction of plane wave at the junction of two dissimilar pre-stressed functionally graded piezothermoelastic media under different interfacial conditions', *Mathematics and Mechanics of Solids*, 28(4), pp. 891–919.
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