



NSHM Knowledge Campus, Durgapur,

Research Publications

International Journals

- (1) J. Shounda, K. Barman, S. Roy, and K. Debnath, "Spatial-averaged turbulence statistics over regular arrays of hemispherical roughness," *Journal of Brazilian Society of Mechanical Sciences and Engineering*, Springer, 2022. (SCI, Q2, IF: 2.22) (Published)
- (2) J. Shounda, K. Barman, and K. Debnath, "Spatial averaged turbulence characteristics over staggered pattern roughness," *Meccanica*, Springer, 2023. (SCI, Q2, IF: 2.7) (Published).
- (3) J. Shounda, K. Barman, and K. Debnath, "Double averaged turbulence statistics of wave current flow over rough bed with staggered arrangement of hemispherical blocks," *Ocean Engineering*, Elsevier, 2023. (SCI, Q1, IF: 5) (Published).
- (4) J. Shounda, K. Barman, and K. Debnath, "Effect of wave-current flow on double-averaged turbulence properties over a rough bed of hemispherical obstacles", *Coastal Engineering Journal*, Taylor and Francis, 2023. (SCI, Q1, IF: 2.5) (Published).
- (5) J. Shounda, K. Barman and K. Debnath, "Effect of hemispherical roughness spacing on double-averaged turbulence characteristics for different flow submergence", *Canadian Journal of Civil Engineering*, Canadian Science Publishing, 2024. (SCIE, Q3, IF: 1.5) (Published).
- (6) J. Shounda, K. Barman, S. Roy, and K. Debnath, "Rough bed hydrodynamics under wave-current interactional flow field: double-averaging approach," *Journal of Turbulence*, Taylor and Francis, 2024. (SCI, Q1, IF: 2.2) (Published)
- (7) J. Shounda, K. Barman, K. Debnath, and B. S. Mazumder "Distribution of turbulent eddies under wave-current coexisting flow over hemispherical rough bed: Stochastic Environmental Research and Risk Assessment. Springer, 2024, (SCIE, Q1, IF: 3.9) (Published)
- (8) J. Shounda, K. Roy, K. Barman, K. Debnath, and B. S. Mazumder "Coherent Structures of Turbulent Eddies in a Wave-Current Co-existing Flow: Water Waves. Springer, 2025, (SCIE, Q2, IF: 1) (Published)

Book Chapter

J. Shounda and K. Barman, "Double-averaged Turbulence Characteristics Over Hemispherical Rough Bed," In book: *Fluid Mechanics and Hydraulics. Lecture Notes in Civil Engineering*, vol 314. Springer, Singapore, 2023. (Published)