Amitesh Jayaraman
Ph.D. Student in Mechanical Engineering, admitted Autumn 2020

Publications

PUBLICATIONS

• High-Performance Lithium-Sulfur Batteries via Molecular Complexation. Journal of the American Chemical Society
  2023

• HOMO-LUMO gaps of large polycyclic aromatic hydrocarbons and their implication on the quantum confinement behavior of flame-formed carbon nanoparticles. PROCEEDINGS OF THE COMBUSTION INSTITUTE
  Kateris, N., Jayaraman, A. S., Wang, H.
  2023; 39 (1): 1069-1077

• Approximate solutions of the advection diffusion equation for spatially variable flows. PHYSICS OF FLUIDS
  Sun, Y., Jayaraman, A. S., Chirikjian, G. S.
  2022; 34 (3)

• Lie group solutions of advection-diffusion equations. PHYSICS OF FLUIDS
  Sun, Y., Jayaraman, A., Chirikjian, G. S.
  2021; 33 (4)

• Black-Scholes Theory and Diffusion Processes on the Cotangent Bundle of the Affine Group. ENTROPY
  Jayaraman, A. S., Campolo, D., Chirikjian, G. S.
  2020; 22 (4)

• The unusual fluid dynamics of particle electrophoresis. JOURNAL OF COLLOID AND INTERFACE SCIENCE
  Jayaraman, A. S., Klaseboer, E., Chan, D. C.
  2019; 553: 845–63