Retrieving the Aerosol Complex Refractive Index using PyMieScatt: A Mie Computational Package with Visualization Capabilities

Benjamin J. Sumlin , William R. Heinson , Rajan K. Chakrabarty

PII: S0022-4073(17)30583-6
DOI: 10.1016/j.jqsrt.2017.10.012
Reference: JQSRT 5873

To appear in: *Journal of Quantitative Spectroscopy & Radiative Transfer*

Received date: 20 July 2017
Revised date: 13 October 2017
Accepted date: 13 October 2017

Please cite this article as: Benjamin J. Sumlin , William R. Heinson , Rajan K. Chakrabarty , Retrieving the Aerosol Complex Refractive Index using PyMieScatt: A Mie Computational Package with Visualization Capabilities, *Journal of Quantitative Spectroscopy & Radiative Transfer* (2017), doi: 10.1016/j.jqsrt.2017.10.012

Highlights

- Open-source cross-platform software for direct and inverse Mie calculations.
- Derive complex refractive indices from optical measurements.
- Compute efficiencies for single particles, coated spheres, or polydisperse ensembles.
- Compute angular scattering intensity functions and matrix elements.