

## Accepted Manuscript

Impact of absorptivity and wavelength on the optical properties of aggregates with sintering necks

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PII: S0022-4073(17)30679-9  
DOI: [10.1016/j.jqsrt.2018.01.002](https://doi.org/10.1016/j.jqsrt.2018.01.002)  
Reference: JQSRT 5948



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

Received date: 5 September 2017  
Revised date: 1 January 2018  
Accepted date: 1 January 2018

Please cite this article as: Yujia Bao , Yong Huang , He Beichen , Impact of absorptivity and wavelength on the optical properties of aggregates with sintering necks, *Journal of Quantitative Spectroscopy & Radiative Transfer* (2018), doi: [10.1016/j.jqsrt.2018.01.002](https://doi.org/10.1016/j.jqsrt.2018.01.002)

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**Highlights**

- The “particle superposition model” is used to construct the sintering aggregate models.
- A homogeneous ball quantified by the ball-necking factor is applied to mimic the connection between the particles.
- The depolarization ratio reveals a high sensitivity of the ball-necking factor.
- The deviations of extinction section, the single scattering albedo and asymmetry factor caused by the ball-necking factor are greater for the larger volume-equivalent radius.

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