

Accepted Manuscript

Influence of Fly Ash Composition on Non-Gray Particle Radiation in Combusting Systems

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PII: S0022-4073(18)30138-9
DOI: [10.1016/j.jqsrt.2018.05.004](https://doi.org/10.1016/j.jqsrt.2018.05.004)
Reference: JQSRT 6085



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

Received date: 26 February 2018
Revised date: 19 April 2018
Accepted date: 3 May 2018

Please cite this article as: Cihan Ates , Nevin Selçuk , Gorkem Kulah , Influence of Fly Ash Composition on Non-Gray Particle Radiation in Combusting Systems, *Journal of Quantitative Spectroscopy & Radiative Transfer* (2018), doi: [10.1016/j.jqsrt.2018.05.004](https://doi.org/10.1016/j.jqsrt.2018.05.004)

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Highlights

- Influence of fly ash composition on non-gray particle radiation is investigated.
- 5 complex index of refraction models are compared for 5 ash compositions.
- Effect of chemical composition on radiative heat transfer is demonstrated.
- Spectral nature of particles is found to be originated from optical properties.
- Rigorous evaluation of ash optical properties is essential for accurate predictions.

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