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

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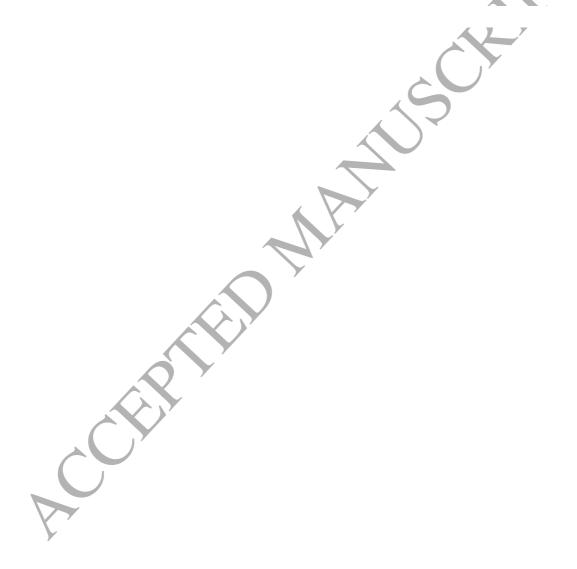
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Highlights

- 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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