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Effects of self-absorption on simultaneous estimation of temperature distribution and concentration fields of soot and metal-oxide nanoparticles in nanofluid fuel flames using a spectrometer

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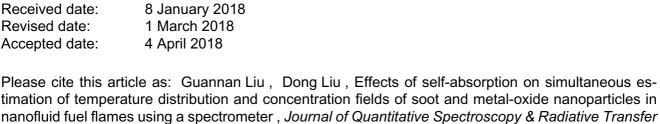
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Highlights

- Improved reconstruction model accounted forself-absorption was presented.
- Temperature and concentrationfields of soot and Al2O3wereretrieved accurately.
- Effects of self-absorption forvarious reconstruction factorswere discussed.
- The proposed model can be successfully applied to optically thick flames.

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