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Authors: Bright Ankudze, Anish Philip, Tuula T. Pakkanen



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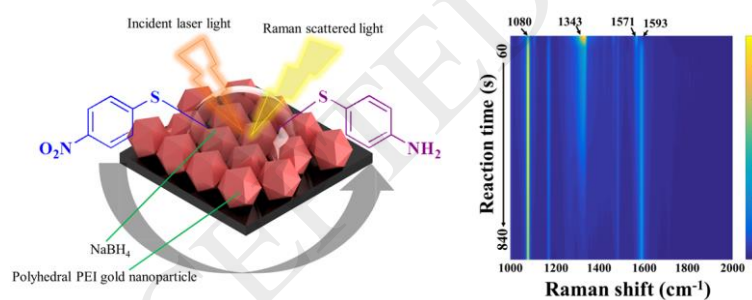
Bright Ankudze, Anish Philip, Tuula T. Pakkanen*

Department of Chemistry, University of Eastern Finland, P.O Box 111, FI-80101, Joensuu, Finland.

* Corresponding author.

E-mail address: Tuula.Pakkanen@uef.fi (T.T. Pakkanen).

Graphical abstract



Highlights

- Polyhedral AuNPs were prepared using polyethylenimine as capping agent.
- The prepared particles exhibit high-level SERS and catalytic properties.
- The polyhedral AuNPs were used to monitor reaction mechanism by SERS.

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