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## Synthesis of highly active Pt nanoparticles with grape seeds (*Vitis vinifera*), mangosteen skin (*Garcinia mangostana*) and clove (*Syzygium aromaticum*) as the reducing agents

The latest development of nanotechnology has been using bio-material as a reducing agent to synthesize nanoparticles. The spin superior activity is due to the anisotropic structure of the produced Pt nanodendrites. In a challenging reaction such as hydrogenation of levulinic acid, which is normally carried out at high temperature (~240°C).

#### **Biography**

Riny Yolandha Patapat has completed her PhD at Technical University of Berlin (TU-Berlin). Currently, she is pursuing her Postdoctoral Research at TU-Berlin. She is also a Lecturer at Itenas, Bandung. Her speciality is in the field of nanomaterial synthesis, catalysis in the greener way and biofuel production.

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