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## Nanoparticle-Enhanced Laser-Induced Breakdown Spectroscopy of metallic samples

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## Conclusions

- ✓ Minimum sample pre-treatment (NELIBS) => emission enhancement
- ✓ Decrease in the breakdown threshold
- ✓ General effect for metallic substrates
- ✓ Sensitivity improvement
- ✓ Further application to NPs fast characterization

[1] A. De Giacomo, R. Gaudioso, C. Koral, M. Dell'Aglio, O. De Pascale, Nanoparticle-Enhanced Laser Induced Breakdown Spectroscopy of metallic samples, **Analytical Chemistry**, **85** (2013) **10180-10187**.

[2] A. De Giacomo, R. Gaudioso, C. Koral, M. Dell'Aglio, O. De Pascale, Nanoparticle Enhanced Laser Induced Breakdown Spectroscopy (NELIBS): effect of nanoparticles deposited on sample surface on laser ablation and plasma emission, **Spectrochimica Acta Part B** **98** (2014) **19–27**