

## Accepted Manuscript

Title: An algorithm for removing charging effects from X-ray photoelectron spectra of nanoscaled non-conductive materials

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**Highlights**

- An algorithm that restores distorted XP-spectra caused by inhomogeneous/non-constant surface charging effects was developed
- Distorted Pd3d spectra of Pd/SnO<sub>2</sub>, Pd/CeO<sub>2</sub>-SnO<sub>2</sub> catalysts were successfully restored.
- The effectiveness of the proposed algorithm is comparable with “hardware” charging neutralization solutions used in last-generation XP spectrometers.

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