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Title: Morphologically-directed Raman Spectroscopy for forensic soil analysis

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**Highlights**

- MDRS is a non-destructive, automated, rapid, reliable, technique for mineral analysis of soil
- MDRS gives particle size, shape and chemical characterization of forensic samples
- MDRS revealed large differences in soil mineral content from 3 geographical sites in Study 1
- Study 2 suggests MDRS could detect subtleties in mineral content between closely related soils
- Criminalists can use MDRS in soil analysis for detailed geological information to support investigations.

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