

Accepted Manuscript

Title: Characterization of Automotive Paint by Optical Coherence Tomography

Author: Ning Zhang Chengming Wang Zhenwen Sun
Hongcheng Mei Wei Huang Lei Xu Lanchi Xie Jingjing Guo
Yuwen Yan Zhihui Li Xiaojing Xu Ping Xue Ningning Liu



PII: S0379-0738(16)30259-6
DOI: <http://dx.doi.org/doi:10.1016/j.forsciint.2016.06.007>
Reference: FSI 8500

To appear in: *FSI*

Received date: 23-2-2016
Revised date: 31-5-2016
Accepted date: 6-6-2016

Please cite this article as: N. Zhang, C. Wang, Z. Sun, H. Mei, W. Huang, L. Xu, L. Xie, J. Guo, Y. Yan, Z. Li, X. Xu, P. Xue, N. Liu, Characterization of Automotive Paint by Optical Coherence Tomography, *Forensic Science International* (2016), <http://dx.doi.org/10.1016/j.forsciint.2016.06.007>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- A novel method based on optical coherence tomography (OCT) was introduced to image and analyze the automotive paint.
- OCT obtains high-resolution and cross-sectional images of the automotive paints in a non-destructive and high-speed manner.
- OCT provides a set of new features for analyzing the automotive paints.
- Six characterized parameters are proposed to distinguish different paints with similar visual appearance.
- Three-dimensional OCT reconstruction of the paints is implemented for morphology examination and comparison.

Download English Version:

<https://daneshyari.com/en/article/6551583>

Download Persian Version:

<https://daneshyari.com/article/6551583>

[Daneshyari.com](https://daneshyari.com)