Spectral analysis of blood stains at the crime scene

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8. Evans MD, Thai CN, Grant JC Development of a spectral imaging system based on a liquid crystal tunable filter. Transactions of the Asae 1998; 41: 1845-1852


17. van der Meer F The effectiveness of spectral similarity measures for the analysis of hyperspectral imagery. International Journal of Applied Earth Observation and Geoinformation 2006; 8: 3-17

Ref Type: Conference Proceeding


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33. Bhargava R, Perlman RS, Fernandez DC, Levin IW, Bartick EG Non-invasive detection of superimposed latent fingerprints and inter-ridge
trace evidence by infrared spectroscopic imaging. Anal Bioanal Chem 2009; 394: 2069-2075


Ref Type: Conference Proceeding


67. Li B, Beveridge P, O'Hare WT, Islam M The estimation of the age of a blood stain using reflectance spectroscopy with a microspectrophotometer, spectral pre-processing and linear discriminant analysis. Forensic Science International 2011; 212: 198-204

68. Li B, Beveridge P, O'Hare WT, Islam M The age estimation of blood stains up to 30 days old using visible wavelength hyperspectral image analysis and linear discriminant analysis. Science and Justice 2013; 53: 270-277


- 176 -


74. Virkler K, Lednev IK Analysis of body fluids for forensic purposes: from laboratory testing to non-destructive rapid confirmatory identification at a crime scene. Forensic Sci Int 2009; 188: 1-17

75. Lomholt B, Keiding N Tetrabase, an alternative to benzidine and orthotolidine for detection of hemoglobin in urine. The Lancet 1977; 1: 608-609


78. Saferstein R Criminalistics - an introduction to forensic science. Prentice hall, 2004

79. James SH, Nordby JJ Forensic Science: An Introduction to Scientific and Investigative Techniques. Taylor&Francis, 2005


84. Virkler K, Lednev IK Raman spectroscopic signature of blood and its potential application to forensic body fluid identification. Analytical and Bioanalytical Chemistry 2010; 396: 525-534


102. Sears DA, Udden MM, Thomas IJ Carboxyhemoglobin levels in patients with sickle-cell anemia: Relationship to hemolytic and vasoocclusive severity. American Journal of the Medical Sciences 2001; 322: 345-348


determination using reflectance spectroscopy. Forensic Sci Int 2011; 206: 166-171


110. Tina Young A Photographic Comparison of Luminol, Fluorescein, and Bluestar. Journal of Forensic Identification 2006; 56: 906-912


123. Virkler K, Lednev IK. Analysis of body fluids for forensic purposes: From laboratory testing to non-destructive rapid confirmatory identification at a crime scene. Forensic Science International 2009; 188: 1-17


130. Wood MFG, Cote D, Vitkin IA Combined optical intensity and polarization methodology for analyte concentration determination in simulated optically clear and turbid biological media. Journal of Biomedical Optics 2008; 13


- 186 -


166. Wickenheiser RA Trace DNA: A review, discussion of theory, and application of the transfer of trace quantities of DNA through skin contact. Journal of Forensic Sciences 2002; 47: 442-450


174. Hanson EK, Ballantyne J A blue spectral shift of the hemoglobin soret band correlates with the age (time since deposition) of dried bloodstains. PLoS One 2010; 5: e12830


177. Rosineide C.Simas, Gustavo B.Sanvido, Wanderson Romão, Priscila M.Lalli, Mario Benassi, Ildenize B.S.Cunha, Marcos N.Eberlin Ambient mass spectrometry: bringing MS into the "real world". Anal Bioanal Chem 2010; 398: 265-294
