

Shinning light on Medieval Manuscripts

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Sala de reuniões do DCR

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My research interests lie in the application of optical spectroscopy to the study of new materials. I am an expert in the areas of optical absorption, emission and scattering spectroscopies for the analysis of materials and for the study of molecular properties. My work includes the development of new methodologies, including the design and construction of sophisticated instrumentation and associated data analysis. Some areas of my work focuses upon the photophysical and photochemical behaviour of molecules in the condensed phases, frequently my work examines chemical systems that are of potential commercial importance, for

example in medical diagnostics or display/lighting technologies.

My laboratory is very well equipped for these studies and combines a full synthetic chemistry facility and a spectroscopic suite.

I have built three mobile Raman spectrometers, mobile UV-vis-NIR-MIR diffuse reflectance and multispectral imaging equipment dedicated to the study of manuscripts. These are regularly in use for the analysis of manuscripts and works of art by ourselves, as well as being loaned to other research groups, e.g. Bodleian Library.



Using Raman spectroscopy to examine the c.12 "Eadwine Psalter" at Trinity College, Cambridge