Resonance Raman spectroscopic study of some napthylazo dyes.

University of Salford - A Raman spectroscopic study of photochromic benzothiazolium dyes

Liquid Crystal Director Dynamics Imaged Using Two-Photon Fluorescence Microscopy with Remote Focusing

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We introduce a novel imaging technique adopting remote focusing for resolving the axial dynamics in the director field for liquid crystals. The high axial time resolution of our approach is demonstrated by imaging directly the evolution of the director field for an initially splayed nematic layer subject to a sudden voltage pulse. Images of the switching dynamics are presented, revealing transient state director configurations and changes in topology of the liquid crystal layer.

DOI: 10.1103/PhysRevLett.103.257803 PACS numbers: 61.30.Jf, 42.70.Df, 42.79.Kr

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-Resonance Raman spectroscopic study of some napthylazo dyes.
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A Raman spectroscopic study of photochromic benzothiazolium dyes

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Walking the Emission Tightrope: Spectral and Computational Analysis of Some Dual

Preliminary assignments of the bands have been made, allowing insight into the changes in structure and bonding which occur on photoisomerization. Resonance Raman and UV—visible diffuse reflectance spectra were recorded from samples of cotton, viscose, polyester, nylon, and acrylic textile swatches dyed black with one of seven single dyes, a mixture of two dyes, or one of seven mixtures of three dyes. Summers and Grace A Lowe and Jean-François Lefebvre and Simbarashe Ngwerume and M.

Walking the Emission Tightrope: Spectral and Computational Analysis of Some Dual

Two boron dipyrromethane analogues, dyes 2 and 3, were made with different linker groups to compare their effect on the behaviour of these dyes adsorbed onto nickel oxide dye…. Bands arising from both cis- and trans-isomers have been distinguished by comparing the spectra observed at different resonances and under different sample conditions. The Supporting Information is available free of charge on the at DOI:.

A Raman spectroscopic study of photochromic benzothiazolium dyes

The Journal of Physical Chemistry A 2019, 123 28 , 5957-5968. Permission may be obtained from ACS for other uses through requests via the RightsLink permission system:. The Altmetric Attention Score is a quantitative measure of the attention that a research article has received online.

Resonance Raman and UV

Citations are the number of other articles citing this article, calculated by Crossref and updated daily. The changes in vibrational frequencies have been correlated with changes in the UV—vis absorption maxima observed previously and which are due to solvent polarity variations, the complexation of the dye molecules containing a crown ether ring with Mg 2+, and the variations in molecular structure.

[PDF] Resonance Raman Study of New Pyrrole

Preliminary assignments of the bands have been made, allowing insight into the changes in structure and bonding which occur on photoisomerization. Journal of Photochemistry and Photobiology A: Chemistry 2020, 402 , 112804. Survey studies of the widely used dye Reactive Black 5 show that essentially the same Raman spectrum is obtained on bulk sampling from the dye in solution, on viscose, on cotton at different uptakes, and on microscope sampling from the dye in cotton threads and single fibres.

Resonance Raman and UV

Dye 1 was comprised of a phenyl-thiophene linker and a maleonitrile acceptor, which has been established as an effective motif in other push-pull dyes.

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