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Title:	Synthesis and characterisation of novel alkoxy cyanobiphenyl-substituted rufigallols
Authors:	Pal, S.K. (/jspui/browse?type=author&value=Pal%2C+S.K.)
Keywords:	Liquid crystals Rufigallol Oligomer Cyanobiphenyl
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Abstract:	Microwave-assisted synthesis of novel alkoxy cyanobiphenyl-substituted rufigallols are reported by systematically replacing one, two, four, five or six cyanobiphenyl-tethered alkoxy chains. The synthesis of the target compounds was challenging since classical reactions failed to produce these hybrids. Chemical structures of the hybrids were determined by ¹ H nuclear magnetic resonance (NMR), ¹³ C NMR, infrared, ultraviolet spectroscopy and elemental analysis. The thermotropic liquid crystalline properties of the new compounds were investigated by polarising optical microscopy, differential scanning calorimetry and X-ray diffractometry.
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