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Title:	Microwave-assisted synthesis of novel oligomeric rod-disc hybrids
Authors:	Setia, S. (/jspui/browse?type=author&value=Setia%2C+S.) Sidiq, S. (/jspui/browse?type=author&value=Sidiq%2C+S.) Pal, S.K. (/jspui/browse?type=author&value=Pal%2C+S.K.)
Keywords:	Alkyl group Biphenyl
Issue Date:	2012
Publisher:	Elsevier B.V.
Citation:	Tetrahedron Letters, 53 (47), pp. 6446-6450.
Abstract:	Microwave-assisted syntheses of five new oligomeric liquid crystals (LC) are reported for the first time consisting of rufigallol-based core attached to which 8-cyanobiphenyl units via flexible alkyl spacers. The synthesis of the target compounds was challenging since classical reactions failed to produce these hybrids. Chemical structures of these hybrids were determined by <sup>1</sup> H NMR, <sup>13</sup> C NMR, IR, UV spectroscopy and elemental analysis. The thermotropic liquid crystalline properties of these new compounds were investigated by polarizing optical microscopy (POM), differential scanning calorimetry (DSC) and X-ray diffractometry (XRD).
URI:	<a href="http://www.sciencedirect.com/science/article/pii/S0040403912016346">http://www.sciencedirect.com/science/article/pii/S0040403912016346</a> ( <a href="http://www.sciencedirect.com/science/article/pii/S0040403912016346">http://www.sciencedirect.com/science/article/pii/S0040403912016346</a> ) <a href="http://dx.doi.org/10.1016/j.tetlet.2012.09.058">http://dx.doi.org/10.1016/j.tetlet.2012.09.058</a> ( <a href="http://dx.doi.org/10.1016/j.tetlet.2012.09.058">http://dx.doi.org/10.1016/j.tetlet.2012.09.058</a> )
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