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Title:	A room temperature discotic mesogenic dyad based-on triphenylene and pentaalkynylbenzene
Authors:	Gupta, Monika (/jspui/browse?type=author&value=Gupta%2C+Monika) Bala, I. (/jspui/browse?type=author&value=Bala%2C+I.) Pal, S.K. (/jspui/browse?type=author&value=Pal%2C+S.K.)
Keywords:	Triphenylene Pentaalkynylbenzene Columnar hexagonal Charge transfer complexes Hybrid dyad
Issue Date:	2014
Publisher:	Elsevier Ltd
Citation:	Tetrahedron Letters, 55(42), pp.5836-5840.
Abstract:	A facile synthesis of a novel room temperature discotic mesogenic dyad based on triphenylene and pentaalkynylbenzene linked via flexible alkyl spacer is reported. The thermotropic liquid crystalline (LC) property of the compound was investigated by polarizing optical microscopy (POM), differential scanning calorimetry (DSC), and X-ray diffractometry (XRD). The LC property of the dyad was further manipulated by preparing charge transfer (CT) complexes with trinitrofluorenone (TNF). The compound self-assembles into a columnar hexagonal mesophase and exhibits an excellent fluorescent emission property which has possible potential for various opto-electronic applications.
URI:	https://www.sciencedirect.com/science/article/pii/S0040403914014440?via%3Dihub (https://www.sciencedirect.com/science/article/pii/S0040403914014440?via%3Dihub) http://hdl.handle.net/123456789/2777 (http://hdl.handle.net/123456789/2777)
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