



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)
/ Publications of IISER Mohali (/jspui/handle/123456789/4)
/ Research Articles (/jspui/handle/123456789/9)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/2843>

Title:	Perylo[1,12- b, c, d] Thiophene Tetraesters: A New Class of Luminescent Columnar Liquid Crystals
Authors:	Gupta, Monika (/jspui/browse?type=author&value=Gupta%2C+Monika) Pal, S.K. (/jspui/browse?type=author&value=Pal%2C+S.K.)
Keywords:	Aromatic compounds Hydrocarbons Thin films
Issue Date:	2015
Publisher:	American Chemical Society
Citation:	Langmuir, 31(29)
Abstract:	Perylo[1,12-b,c,d] thiophene tetraesters exhibiting wide-range hexagonal columnar phase have been synthesized. These compounds also exhibit good homeotropic alignment in the liquid-crystalline phase which is very important for the device fabrication. These compounds showed sky-blue luminescence in solution under the long-wavelength UV light. With high solubility and high quantum yield these compounds can serve as standards to measure quantum yields of unknown samples. This new class of materials is promising, considering the emissive nature and stabilization of hexagonal columnar mesophase over a wide thermal range and ease of synthesis.
Description:	Only IISERM authors are available in the record.
URI:	https://pubs.acs.org/doi/10.1021/acs.langmuir.5b01187 (https://pubs.acs.org/doi/10.1021/acs.langmuir.5b01187) http://hdl.handle.net/123456789/2843 (http://hdl.handle.net/123456789/2843)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format
Need to add pdf.odt (/jspui/bitstream/123456789/2843/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text

[View/Open \(/jspui/bitstream/123456789/2843/1/Need%20to%20add%20pdf.odt\)](/jspui/bitstream/123456789/2843/1/Need%20to%20add%20pdf.odt)

[Show full item record \(/jspui/handle/123456789/2843?mode=full\)](/jspui/handle/123456789/2843?mode=full)

[Statistics \(/jspui/handle/123456789/2843/statistics\)](/jspui/handle/123456789/2843/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.

