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| Title: | Observation of polar order and thermochromic behaviour in a chiral bent-core system exhibiting exotic mesophases due to superstructural frustration |
| Authors: | Punjani, V. (/jspui/browse?type=author&value=Punjani%2C+V.) Mohiuddin, G. (/jspui/browse?type=author&value=Mohiuddin%2C+G.) Kaur, Supreet (/jspui/browse?type=author&value=Kaur%2C+Supreet) Pal, S.K. (/jspui/browse?type=author&value=Pal%2C+S.K.) |
| Keywords: | Thermochromic behaviour Observation Bent-core system Superstructural frustration |
| Issue Date: | 2018 |
| Publisher: | Royal Society of Chemistry |
| Citation: | Chemical Communications, 54(28), pp. 3452-3455 |
| Abstract: | A new approach accompanied by superstructural frustration is reported. By attaching a cholesterol moiety directly to the central bent-core system it displayed exotic BP _{III} , BP _{II} /I, Ncyb*, TGBA, SmAPA, SmA and SmX phases as shown by X-ray scattering results. While higher homologues of the series exhibited spontaneous formation of polar order (P _s ~ 61 nC cm ⁻²) upon applied voltage, the lower homologues showed thermochromic behaviour which can also be trapped via temperature quenching. |
| Description: | Only IISERM authors are available in the record. |
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