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Title:	AIE-active mechanoluminescent discotic liquid crystals for applications in OLEDs and bio-imaging
Authors:	De, J. (/jspui/browse?type=author&value=De%2C+J.) Abdul Haseeb M.M. (/jspui/browse?type=author&value=Abdul+Haseeb+M.M.) Bala, I. (/jspui/browse?type=author&value=Bala%2C+I.) Pal, S.K. (/jspui/browse?type=author&value=Pal%2C+S.K.)
Keywords:	AIE-active mechanoluminescent liquid crystals OLEDs
Issue Date:	2020
Publisher:	Royal Society of Chemistry
Citation:	Chemical Communications, 56(91) pp. 14279-14282
Abstract:	A multifunctional molecular design of fluorescent discotic liquid crystal (DLC) consisting of a tetraphenylethylene core is reported, which is found to serve as an excellent solid-state emitter in OLED devices with EQE of 4.4% and tunable mechanochromism. X-ray diffraction studies unveiled that change in supramolecular self-assembly is the physical origin of mechanochromism. The luminescent DLC molecule has been shown to act as a highly selective probe for labelling acidic cellular compartments (such as lysosomes) in bio-imaging using HeLa cells. This journal is © The Royal Society of Chemistry.
Description:	Only IISERM authors are available in the record.
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