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Title:	Deep-Blue OLED Fabrication from Heptazine Columnar Liquid Crystal Based AIE-Active Sky-Blue Emitter
Authors:	Bala, I. (/jspui/browse?type=author&value=Bala%2C+I.) De, J. (/jspui/browse?type=author&value=De%2C+J.) Singh, Harpreet (/jspui/browse?type=author&value=Singh%2C+Harpreet) Pal, S.K. (/jspui/browse?type=author&value=Pal%2C+S.K.)
Keywords:	OLED Fabrication Heptazine Liquid Crystal AIE-Active Sky-Blue Emitter
Issue Date:	2018
Publisher:	Wiley-Blackwell
Citation:	ChemistrySelect, 3 (27), pp. 7771-7777
Abstract:	A newly discovered electron-deficient s-Heptazine discotic core has been used for organic light emitting diodes (OLEDs) applications. The compound exhibits aggregation-induced emission (AIE) characteristic, while most of other discotics reported so far, show aggregation-caused quenching (ACQ) behavior. It (Hpz-3C12) shows sky-blue light emission in a solid state while weakly emissive in the solution state. The solution-processed OLEDs have been fabricated from Hpz-3C12 by using host-guest configuration by doping with different hosts and found to display deep-blue emission. The device shows the best efficiency with CBP-host with 3 wt. % dopant (Hpz-3C12) concentration. © 2018 Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim
Description:	Only IISERM authors are available in the record.
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