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Title:	Chemical and physical aspects of recent bent-shaped liquid crystals exhibiting chiral and achiral mesophases
Authors:	Kaur, Supreet (/jspui/browse?type=author&value=Kaur%2C+Supreet) Punjani, Vidhika (/jspui/browse?type=author&value=Punjani%2C+Vidhika) Yadav, Neelam (/jspui/browse?type=author&value=Yadav%2C+Neelam) Baghla, Anshika (/jspui/browse?type=author&value=Baghla%2C+Anshika) Pal, Santanu Kumar (/jspui/browse?type=author&value=Pal%2C+Santanu+Kumar)
Keywords:	Bent-core liquid crystals Chiral mesophases
Issue Date:	2022
Publisher:	Taylor & Francis
Citation:	Liquid Crystals, 49(9), 1078-1146
Abstract:	Bent-core liquid crystals (BLCs) are a class of thermotropic LCs that exhibit chiral and polar superstructures in achiral molecules. Progress in design and synthesis of novel bent-core architectures in search of unconventional properties enriched the field of BLCs. Here, we present a comprehensive review of the recent bent-shaped LCs, discuss relevant simulation and theoretical models, which draws a comparison to experimental results, survey the advances in the molecular design and structure-property correlation, and predict the future directions from chemical and physical perspectives. This review article is dedicated in commemoration of Prof. B K Sadashiva, a pioneer chemist who made a notable contribution to the field of bent-core liquid crystals.
Description:	Only IISERM authors are available in the record
URI:	<a href="https://doi.org/10.1080/02678292.2022.2028313">https://doi.org/10.1080/02678292.2022.2028313</a> ( <a href="https://doi.org/10.1080/02678292.2022.2028313">https://doi.org/10.1080/02678292.2022.2028313</a> ) <a href="http://hdl.handle.net/123456789/4723">http://hdl.handle.net/123456789/4723</a> ( <a href="http://hdl.handle.net/123456789/4723">http://hdl.handle.net/123456789/4723</a> )
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