



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)
/ Thesis & Dissertation (/jspui/handle/123456789/1)
/ Master of Science (/jspui/handle/123456789/2)
/ MS-16 (/jspui/handle/123456789/3766)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/3934>

Title:	Design, Synthesis, Characterization and Photoswitching Studies of C ₃ -symmetric Photoswitchable Tripodal Systems
Authors:	V., Sreelakshmi (/jspui/browse?type=author&value=V.%2C+Sreelakshmi)
Keywords:	Photoswitching Studies C ₃ -symmetric Photoswitchable Tripodal Systems
Issue Date:	28-Jul-2021
Publisher:	IISERM
Abstract:	The discovery of azoheteroarene based photoswitches has increased the stability of Z isomer and showed better photoswitching. Another remarkable fact is applications of C ₃ symmetric systems in supramolecular chemistry, where structures like fibers, gels, solid spheres find applications in daily life. Herein, we present tri-substituted triazine core with isoxazole-based photoswitches with varying the linker such as amine, and ether. Three triazine-based tripodal systems were successfully synthesized. Their characterization is done with ¹ H and ¹³ C NMR spectroscopy, photophysical studies including forward, reverse isomerisation and kinetic studies are done with the help of UV-Vis spectroscopy. These tripodal systems show good photoconversions and longer half-lives of photoswitched states. Due to the presence of aromatic moiety, some of the reported molecules show aggregation property, which we tried to understand with the help of UV-Vis spectroscopic and DLS techniques. The photoswitching property of certain molecules have been hindered at high concentration due to excessive aggregation caused by these supramolecular interactions.
URI:	http://hdl.handle.net/123456789/3934 (http://hdl.handle.net/123456789/3934)
Appears in Collections:	MS-16 (/jspui/handle/123456789/3766)

Files in This Item:

File	Description	Size	Format	
It is under embargo period.odt (/jspui/bitstream/123456789/3934/1/It%20is%20under%20embargo%20period.odt)		9.47 kB	OpenDocument Text	View/Open (/jspui/bitstream/123456789/3934/1/It%20is%20under%20embargo%20period.odt)

[Show full item record \(/jspui/handle/123456789/3934?mode=full\)](#)

[Statistics \(/jspui/handle/123456789/3934/statistics\)](#)

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

