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Title:	Structure–Property Relationship for Visible Light Bidirectional Photoswitchable Azoheteroarenes and Thermal Stability of Z-Isomers
Authors:	Gaur, Ankit Kumar (/jspui/browse?type=author&value=Gaur%2C+Ankit+Kumar) Kumar, Himanshu (/jspui/browse?type=author&value=Kumar%2C+Himanshu) Gupta, Debapriya (/jspui/browse?type=author&value=Gupta%2C+Debapriya) Tom, Irin Pottanani (/jspui/browse?type=author&value=Tom%2C+Irin+Pottanani) Nampoothiry, Dhanyaj Narayanan (/jspui/browse?type=author&value=Nampoothiry%2C+Dhanyaj+Narayanan) Thakur, Sandeep Kumar (/jspui/browse?type=author&value=Thakur%2C+Sandeep+Kumar) Mahadevan, Anjali (/jspui/browse?type=author&value=Mahadevan%2C+Anjali) Sanjay, Singh (/jspui/browse?type=author&value=Sanjay%2C+Singh) Venkataramani, Sugumar (/jspui/browse?type=author&value=Venkataramani%2C+Sugumar)
Keywords:	Structure–Property Relationship Light Bidirectional Photoswitchable Azoheteroarenes Thermal Stability of Z-Isomers
Issue Date:	2022
Publisher:	ACS Publications
Citation:	Journal of Organic Chemistry, 87(10), 6541-6551.
Abstract:	A modular approach has been adopted to synthesize a wide range of visible light-driven photoswitchable azoheteroarenes. In this regard, we considered ortho substitution of cyclic amines in the aryl ring and varied substitution patterns. Using detailed spectroscopic studies, we established a relationship between structure and photoswitching ability and also half-lives of the Z-isomers. Through this, we envision tunable and bidirectional longer wavelength photoswitches.
Description:	Only IISER Mohali authors are available in the record.
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