

IRG PHENICS ON-GOING COLLABORATION

Title of the collaboration: Photochemical properties of diarylethenes with a 6-membered ring as ethene bridge

COUNTRY A:	FR	COUNTRY B:	CN
Name of group/Institution:	ENS Cachan	Name of group/Institution:	ECUST
Name:	K. Nakatani	Name:	W. Zhu, H. Tian
Other participants:	R. Métivier, Y. Yang	Other participants:	Y. Yang
Role in the collaboration:	Spectroscopy studies; reaction quantum yield, fluorescence	Role in the collaboration:	Synthesis and characterization, crystal growth and structure determination

Background, objectives, results:	Figure:
<p>This work deals with the synthesis and the photochemical property studies of new diarylethenes bearing 6-membered ring ethene bridges. Many of such 6-membered bridges lead to T-type photochromes. When benzobisthiadiazole is introduced, it gives a P-type photochromic molecule with very high thermal stability of the color form.</p>	

Common publications, communications, bilateral funding, invitation funding, cotutoring of students, ...:	<ul style="list-style-type: none"> ▪ Angew. Chem. Int. Ed. 2011, 50, 10986 –10990 ▪ Cotutoring of Y. Yang's PhD thesis (2009-2012)
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