

IRG PHENICS ON-GOING COLLABORATION

Title of the collaboration:	Investigation of the photodynamics of new photochromic materials based on hexaarylbiimidazole derivative
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COUNTRY A:	Japan	COUNTRY B:	France
Name of group/Institution:	Aoyama Gakuin Univ.	Name of group/Institution:	Univ. Lille 1
Name:	Jiro Abe	Name:	Michel Sliwa
Other participants:		Other participants:	C. Ruckebusch, S. Delbaere, H. Vezin, B. Debus
Role in the collaboration:	Synthesis, EPR studies, theoretical calculations	Role in the collaboration:	Ultrafast Vibrational spectroscopy, NMR, Imaging EPR, data analysis
Name of group/Institution:	Osaka Univ.	Name of group/Institution:	ENS Cachan
Name:	Hiroshi Miyasaka	Name:	Keitaro Nakatani
Other participants:		Other participants:	R. Métivier
Role in the collaboration:	Ultrafast UV-visible spectroscopy, Spectroscopic studies	Role in the collaboration:	Synthesis of nanocrystals, Single particle spectroscopy; reaction quantum yield

Background, objectives, results:	Figure:
<p>This work deals with the understanding of the entire photochromism mechanism of new Fast HABI molecules and materials such as nanoparticles. This new family of HABI was reported in Science Daily News in 2009 as a new remarkable photochromic molecule for fast reversible applications. These studies should lead to the synthesis of new promising systems in terms of high sensitivity, switching and thermal back reaction speed for holographic materials, high resolution biological imaging, magneto-chiral switches,</p>	

Common publications, communications, bilateral funding, invitation funding, co-tutoring of students, ...:	<ul style="list-style-type: none"> ▪ JSPS Sakura project 2010-2011 ▪ Invited Professor Position at Univ. Lille 1 (Jiro Abe)
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