

## Publications scientifiques du PPSM – année 2007

- 1** Synthesis and characterization of core-shell structure silica-coated Fe<sub>29.5</sub>Ni<sub>70.5</sub> nanoparticles  
M. Ammar, F. Mazaleyrat, J. P. Bonnet, P. Audebert, A. Brosseau, G. Wang and Y. Champion  
*Nanotechnol.*, **2007**, 18(28), 285606
- 2** Fluorescence lifetime standards for time and frequency domain fluorescence spectroscopy  
N. Boens, W. W. Qin, N. Basaric, J. Hofkens, M. Ameloot, J. Pouget, J. P. Lefevre, B. Valeur, E. Gratton, M. Vandeven, N. D. Silva, Y. Engelborghs, K. Willaert, A. Sillen, G. Rumbles, D. Phillips, A. Visser, A. van Hoek, J. R. Lakowicz, H. Malak, I. Gryczynski, A. G. Szabo, D. T. Krajcarski, N. Tamai and A. Miura  
*Anal. Chem.*, **2007**, 79(5), 2137-2149
- 3** Generation of new fluorophore by Click chemistry: synthesis and properties of beta-cyclodextrin substituted by 2-pyridyl triazole  
O. David, S. Maisonneuve and J. Xie  
*Tetrahedron Lett.*, **2007**, 48(37), 6527-6530
- 4** Fluorescence lifetime imaging microscopy for in situ observation of the nanocrystallization of rubrene in a microfluidic set-up  
S. Desportes, Z. Yatabe, S. Baumlin, V. Genot, J. P. Lefevre, H. Ushiki, J. A. Delaire and R. B. Pansu  
*Chem. Phys. Lett.*, **2007**, 446(1-3), 212-216
- 5** A novel microfluidic flow-injection analysis device with fluorescence detection for cation sensing. Application to potassium  
E. Destandau, J. P. Lefevre, A. C. F. Eddine, S. Desportes, M. C. Jullien, R. Hierle, I. Leray, B. Valeur and J. A. Delaire  
*Anal. Bioanal. Chem.*, **2007**, 387(8), 2627-2632
- 6** Dithiazolyethene-based molecular switches for nonlinear optical properties and fluorescence: synthesis, crystal structure and ligating properties  
M. Giraud, A. Leautic, R. Guillot, P. Yu, P. G. Lacroix, K. Nakatani, R. Pansu and F. Maurel  
*J. Mater. Chem.*, **2007**, 17(41), 4414-4425
- 7** Highly selective and sensitive phosphane sulfide derivative for the detection of Hg<sup>2+</sup> in an organo-aqueous medium  
M. H. Ha-Thi, M. Penhoat, V. Michelet and I. Leray  
*Org. Lett.*, **2007**, 9(6), 1133-1136
- 8** Synthesis and photophysical properties of a star-shaped fluorescent phosphane sulfide  
M. H. Ha-Thi, V. Souchon, M. Penhoat, F. Miomandre, J. P. Genet, I. Leray and V. Michelet  
*Lett. Org. Chem.*, **2007**, 4(3), 185-188

- 9** Chap. 16: Single living cell processing in water medium using focused femtosecond laser-induced shockwave and cavitation bubble  
Y. Hosokawa, R. Yasukuni, J. A. Spitz, T. Tada, T. Negishi, C. Shukunami, Y. Hiraki, T. Asahi, R. Méallet-Renault and H. Masuhara  
in *NanoBioPhotonics*, Elsevier: 2007.
- 10** Two-photon fluorescent holographic rewritable micropatterning  
E. Ishow, A. Brosseau, G. Clavier, K. Nakatani, R. B. Pansu, J. J. Vachon, P. Tauc, D. Chauvat, C. R. Mendonca and E. Piovesan  
*J. Am. Chem. Soc.*, **2007**, 129(29), 8970-8971
- 11** A new chiral 4-[(E)-2-ferrocenylvinyl]-1-methylpyridinium iodide exhibiting bulk second-order nonlinear optical properties  
I. Janowska, J. Zakrzewski, M. Palusiak and K. Nakatani  
*Pol. J. Chem.*, **2007**, 81(5-6), 1063-1070
- 12** Redox-modulated recognition of tetrazines using thioureas  
B. J. Jordan, M. A. Pollier, L. A. Miller, C. Tiernan, G. Clavier, P. Audebert and V. M. Rotello  
*Org. Lett.*, **2007**, 9(15), 2835-2838
- 13** Detection of explosives: towards new technological solutions  
P. Le Barny, E. Obert, V. Simic and I. Leray  
*Actualité Chimique*, **2007**, 308-309(104-107)
- 14** Fluorescence patterning through photoinduced migration of squaraine-functionalized azo derivatives  
L. H. Liu, K. Nakatani, R. Pansu, J. J. Vachon, P. Tauc and E. Ishow  
*Adv. Mater.*, **2007**, 19(3), 433-436
- 15** Electronic excitation energy transfer between two single molecules embedded in a polymer host  
R. Metivier, F. Nolde, K. Mullen and T. Basche  
*Phys. Rev. Lett.*, **2007**, 98(4), 047802
- 16** N-H...O assisted structural changes induced on ketoenamine systems  
M. Rodriguez, R. Santillan, Y. Lopez, N. Farfan, V. Barba, K. Nakatani, E. V. G. Baez and Padilla-Martinez, II  
*Supramolec. Chem.*, **2007**, 19(8), 641-653
- 17** Polarization and wavelength dependent nonlinear optical properties of a photo-switchable organic crystal  
M. Sliwa, K. Nakatani, T. Asahi, P. G. Lacroix, R. B. Pansu and H. Masuhara  
*Chem. Phys. Lett.*, **2007**, 437(4-6), 212-217
- 18** Fabrication of nanoscale photochromic materials by vapor deposition method  
A. Spangenberg, A. Brosseau, R. Metivier, M. Sliwa, K. Nakatani, T. Asahi and T. Uwada  
*J. Phys. Org. Chem.*, **2007**, 20(11), 985-991

**19** N-(3,5-Di-tert-butylsalicylidene)-4-iodobenzene, a peculiar case of a nonlinear optical photoswitch

A. Spangenberg, M. Sliwa, R. Metivier, R. Dagnelie, A. Brosseau, K. Nakatani, R. Pansu and I. Malfant

*J. Phys. Org. Chem.*, **2007**, 20(11), 992-997

**20** Assessment of cellular actin dynamics by measurement of fluorescence anisotropy

J. A. Spitz, V. Polard, A. Maksimenko, F. Subra, C. Baratti-Elbaz, R. Meallet-Renault, R. B. Pansu, P. Tauc and C. Auclair

*Anal. Biochem.*, **2007**, 367(1), 95-103

**21** Detection of pollutants in air and water

T. H. Tran-Thi, P. Chazette, R. Dagnelie, J. Kasparian, I. Leray, L. Magne, H. Paolacci and B. Valeur

*Actualité Chimique*, **2007**, 308-309(62-70)

**22** Photophysics and Photochemistry of Supramolecular Systems

B. Valeur, M. N. Berberan-Santos and M. M. Martin

In *Analytical Methods in Supramolecular Chemistry*, Schalley, C., Ed. Wiley-VCH Verlag: Weinheim, **2007**; pp 220-264.

**23** Ion-responsive supramolecular fluorescent systems based on multichromophoric calixarenes: A review

B. Valeur and I. Leray

*Inorg. Chim. Acta*, **2007**, 360(3), 765-774

**24** Synthesis of bispyrenyl sugar-aza-crown ethers as new fluorescent molecular sensors for Cu(II)

J. Xie, M. Menand, S. Maisonneuve and R. Metivier

*J. Org. Chem.*, **2007**, 72(16), 5980-5985

**25** Realignment process of actin stress fibers in single living cells studied by focused femtosecond laser irradiation

R. Yasukuni, J. A. Spitz, R. Meallet-Renault, T. Negishi, T. Tada, Y. Hosokawa, T. Asahi, C. Shukunami, Y. Hiraki and H. Masuhara

*Appl. Surf. Sci.*, **2007**, 253(15), 6416-6419