

## GEORGIOS ROTAS

### PUBLICATIONS –MAY 2009

#### A. Ph.D. THESIS

1. “Synthesis of pyrrolo-benzazepines, -benzodiazepines, -benzotriazocines and – quinoxalines from pyrrole derivatives”, Department of Chemistry, University of Ioannina, Greece (06/2005).

#### B. PAPERS IN REFEREED JOURNALS

1. “Synthesis of 5-alkyl(or aryl)pyrrolo[1,2-*a*]quinoxalin-4-(5*H*)-ones by denitrocyclisation of *N*-alkyl(or aryl)-1-(2-nitrophenyl)-1*H*-pyrrole-2-carboxamides. Evidence of a Smiles rearrangement” G. Rotas, A. Kimbaris, G. Varvounis, *Tetrahedron*, **60**, 10825 (2004).
2. “Action of a novel pyrrolo[1,2-*c*][1.3]benzodiazepine on the viability of Jurkat and neuronal/glial cells” G. Rotas, K. Natchkebia, N. Natsvlishvili, M. Kekelidze, A. Kimbaris, G. Varvounis, D. Mikeladze, *Bioorg. Med. Chem. Lett.* **15**, 3220 (2005).
3. “Theoretical Study on Triphenylamine-based Sensors of Dicarboxylic Acids”, I. D. Petsalakis, N. Tagmatarchis, G. Rotas, G. Theodorakopoulos, *J. Mol. Struct. – Theochem.* **807**, 11 (2007).
4. “Soluble Functionalized Carbon Nanohorns”, G. Pagona, G. Rotas, I. D. Petsalakis, G. Theodorakopoulos, A. Maigné, J. Fan, M. Yudasaka, S. Iijima, N. Tagmatarchis, *J. Nanosci. Nanotechn.* **7**, 3468 (2007).
5. “Raman Scattering from Nanomaterials Encapsulated into Single Wall Carbon Nanotubes” H. Kuzmany, F. Hasi, W. Plank, Ch. Schaman, R. Pfeiffer, F. Simon, G. Rotas, G. Pagona, N. Tagmatarchis, *J. Raman Spec.*, **38**, 704 (2007).
6. “Stability, Thermal Homolysis and Intermediate Phases of Solid Hydroazafullerene

- C<sub>59</sub>HN”, D. Arcon, M. Pregelj, P. Cevc, G. Rotas, G. Pagona, N. Tagmatarchis, C. Ewels, *Chem. Commun.* 3386 (2007).
7. “Fullerene derivatives encapsulated in carbon nanotubes”, W. Plank, H. Kuzmany, F. Simon, T. Saito, S. Ohshima, M. Yumura, S. Iijima, G. Rotas, G. Pagona, N. Tagmatarchis, *Phys. Status Solidi B*, **244**, 4074 (2007).
  8. “(Terpyridine)copper(II)—Carbon Nanohorns: Metallo-Nanocomplexes for Photoinduced Charge Separation”, G. Rotas, A. S. D. Sandanayaka, Y. Ichihashi, N. Tagmatarchis, O. Ito, *J. Am. Chem. Soc.*, **130**, 4725 (2008).
  9. “Azafullerenes encapsulated within single-walled carbon nanotubes”, G. Pagona, G. Rotas, A. N. Khlobystov, T. W. Chamberlain, K. Porfyrakis, N. Tagmatarchis, *J. Am. Chem. Soc.*, **130**, 6062 (2008).
  10. “Methodologies for the Chemical Functionalization of Carbon Nanohorns”, G. Mountrichas, G. Pagona, G. Rotas, N. Karousis, S. Pispas, N. Tagmatarchis, *Journal of Nanostructured Polymers and Nanocomposites*, **4**, 28 (2008).
  11. “Properties, Applications and Functionalization of Carbon Nanohorns”, G. Pagona, G. Mountrichas, G. Rotas, N. Karousis, S. Pispas, N. Tagmatarchis, *Int. J. Nanotechn.*, **6**, 176 (2009).
  12. “Regioselective triphenylamine-tether-directed synthesis of [60]fullerene bis-adducts”, G. Rotas, N. Tagmatarchis, *Tetrahedron Lett.*, **50**, 398 (2009).