

GEORGIA PAGONA

PUBLICATIONS –NOVEMBER 2013

A. Ph.D. THESIS

“Carbon Based Nanostructured Materials”, Chemistry Department, University of Crete, Greece, May **2009**

B. CHAPTERS IN BOOKS

1. **G. Pagona**, N. Tagmatarchis, “Carbon Nanohorns Chemical Functionalization”, in “Advances in Carbon Nanomaterials: Science and Applications”, PanStanford Press, Singapore, p. 239- 268, **2012**.

C. LIST OF PUBLICATIONS

2. K. Hatzellis, **G. Pagona**, A. Spyros, C. Demetzoş, H. E. Katerinopoulos, “Correction of the Structure of a New Sesquiterpene from *Cistus creticus* ssp. *creticus*”, *J. Nat. Prod.*, **2004**, *67*, 1996.
3. H. E. Katerinopoulos, **G. Pagona**, N. Stratigakis, A. Afratis, N. Roditakis, “Composition and Insect Attracting Activity of the Essential Oil of *Rosmarinus Officinalis*”, *J. Chem. Ecol.*, **2005**, *31*, 111.
4. A. Schulze, **G. Pagona**, A. Giannis, “Oxone/Sodium Chloride: A Simple and Efficient Catalytic System for the Oxidation of Alcohols to Symmetric Esters and Ketones” *Synth. Commun.*, **2006**, *36*, 1147.
5. **G. Pagona**, N. Tagmatarchis, “Carbon Nanotubes: Materials for Medicinal Chemistry and Biotechnological Applications”, *Curr. Med. Chem.* **2006**, *13*, 1789.
6. **G. Pagona**, N. Tagmatarchis, J. Fan, M. Yudasaka, S. Iijima, “Cone-end Functionalization of Carbon Nanohorns”, *Chem. Mater.* **2006**, *18*, 3918.
7. I. D. Petsalakis, **G. Pagona**, G. Theodorakopoulos, N. Tagmatarchis, M. Yudasaka, S. Iijima, “Unbalanced Strain—directed Functionalization of Carbon Nanohorns: A Theoretical Investigation Based on Complementary Methods”, *Chem. Phys. Lett.* **2006**, *429*, 194.
8. **G. Pagona**, A. S. D. Sandanayaka, Y. Araki, J. Fan, N. Tagmatarchis, M. Yudasaka, S. Iijima, O. Ito, “Electronic Interplay in Illuminated Aqueous Carbon Nanohorn—Porphyrin Ensembles”, *J. Phys. Chem. B* **2006**, *110*, 20729.
9. **G. Pagona**, G. Rotas, I. D. Petsalakis, G. Theodorakopoulos, A. Maignè, J. Fan, M. Yudasaka, S. Iijima, N. Tagmatarchis, “Soluble Functionalized Carbon Nanohorns”, *J. Nanosci. Nanotechn.* **2007**, *7*, 3468.
10. **G. Pagona**, J. Fan, A. Maignè, M. Yudasaka, S. Iijima, N. Tagmatarchis “Aqueous Carbon Nanohorn—Pyrene—Porphyrin Nanoensembles: Controlling Charge-Transfer Interactions”, *Diam. Relat. Mater.* **2007**, *16*, 1150.
11. H. Kuzmany, F. Hasi, W. Plank, Ch. Schaman, R. Pfeiffer, F. Simon, G. Rotas, **G. Pagona**, N. Tagmatarchis, “Raman Scattering from Nanomaterials Encapsulated into Single Wall Carbon Nanotubes”, *J. Raman Spectrosc.* **2007**, *38*, 704.
12. **G. Pagona**, A. S. D. Sandanayaka, Y. Araki, J. Fan, N. Tagmatarchis, G.

- Charalambidis, A. G. Coutsolelos, B. Boitrel, M. Yudasaka, S. Iijima, O. Ito, "Covalent association of Carbon Nanohorns with Porphyrin: Nanohybrid Formation and Photo-Induced Electron and Energy Transfer", *Adv. Funct. Mater.* **2007**, *17*, 1705.
13. A. S. D. Sandanayaka, **G. Pagona**, N. Tagmatarchis, M. Yudasaka, S. Iijima, Y. Araki, O. Ito, "Photoinduced Electron Transfer Processes of Carbon Nanohorns with Covalently Linked Pyrene Chromophores: Charge-Separation and Electron-Migration Systems", *J. Mater. Chem.* **2007**, *17*, 2540.
 14. D. Arcon, M. Pregelj, P. Cevc, G. Rotas, **G. Pagona**, N. Tagmatarchis, C. Ewels, "Stability, Thermal Homolysis and Intermediate Phases of Solid Hydroazafullerene C₅₉HN", *Chem. Commun.* **2007**, 3386.
 15. **G. Pagona**, A. S. D. Sandanayaka, A. Maigné, J. Fan, G. C. Papavassiliou, I. D. Petsalakis, B. R. Steele, N. Tagmatarchis, M. Yudasaka, S. Iijima, O. Ito, "Electron-Transfer on Aqueous Photoactive Carbon Nanohorn—Pyrene—Tetrathiafulvalene Hybrids", *Chem. Eur. J.* **2007**, *13*, 7600.
 16. W. Plank, H. Kuzmany, F. Simon, T. Saito, G. Rotas, **G. Pagona**, N. Tagmatarchis, "Fullerene Derivatives Encapsulated in Carbon Nanotubes", *Phys. Status Sol. B.*, **2007**, *244*, 4074.
 17. I. D. Petsalakis, **G. Pagona**, N. Tagmatarchis, G. Theodorokapoulos, "Theoretical Study in Donor-Acceptor Carbon Nanohorn-based Hybrids", *Chem. Phys. Lett.* **2007**, *448*, 115.
 18. **G. Pagona**, N. Karousis, N. Tagmatarchis, "Aryl Diazonium functionalization of Carbon Nanohorns" *Carbon*, **2008**, *46*, 604.
 19. **G. Pagona**, G. Rotas, A. N. Khlobystov, T. W. Chamberlain, K. Porfyakis, N. Tagmatarchis, "Azafullerenes Encapsulated within Single-Walled Carbon Nanotubes", *J. Am. Chem. Soc.* **2008**, *130*, 6062.
 20. G. Mountrichas, **G. Pagona**, G. Rotas, N. Karousis, S. Pispas, N. Tagmatarchis, "Methodologies for the Chemical Functionalization of Carbon Nanohorns", *J. Nanostruct. Polym. Nanocomp.*, **2008**, *4*, 28.
 21. **G. Pagona**, A. S. D. Sandanayaka, T. Hasobe, G. Charalambidis, A. G. Coutsolelos, M. Yudasaka, S. Iijima, N. Tagmatarchis, "Characterization and Photoelectrochemical Properties of Nanostructured Thin Film Composed of Carbon Nanohorns Covalently Functionalized with Porphyrins", *J. Phys. Chem. C*, **2008**, *112*, 15735.
 22. **G. Pagona**, G. Mountrichas, G. Rotas, N. Karousis, S. Pispas, N. Tagmatarchis, "Properties, Applications and Functionalization of Carbon Nanohorns", *Int. J. Nanotechn.*, **2009**, *6*, 176.
 23. S. P. Economopoulos, **G. Pagona**, M. Yudasaka, S. Iijima, N. Tagmatarchis, "Solvent-free microwave-assisted Bingel reaction in carbon nanohorns", *J. Mater. Chem.*, **2009**, *19*, 7326.
 24. **G. Pagona**, S. P. Economopoulos, G. K. Tsikalas, H. E. Katerinopoulos, N. Tagmatarchis, "Fullerene-Coumarin Dyad as Selective Metal Receptor. Synthesis, Photophysical Properties, Electrochemistry and Ion Binding Studies", *Chem. Eur. J.* **2010**, *16*, 11969.
 25. **G. Pagona**, S. P. Economopoulos, T. Aono, Y. Miyata, H. Shinohara, N. Tagmatarchis, "Molecular Recognition of La@C₈₂ Endohedral Metallofullerene by Isophthaloyl-bridged Porphyrin Dimer", *Tetrahedron Letters*, **2010**, *51*, 5896.
 26. S. P. Economopoulos, N. Karousis, G. Rotas, **G. Pagona**, N. Tagmatarchis "Microwave-assisted Functionalization of Carbon Nanostructured Materials" *Curr. Org. Chem.*, **2011**, *15*, 1121.

27. I. Koutselas, P. Bampoulis, E. Maratou, T. Evagelinou, **G. Pagona**, G. C. Papavassiliou “Some Unconventional Organic-Inorganic Hybrid Low-Dimensional Semiconductors and Related Light-Emitting Devices” *J. Phys. Chem. C*, **2011**, *115*, 8475.
28. **G. Pagona**, H.E. Katerinopoulos, N. Tagmatarchis, “Synthesis, characterization and photophysical properties of a carbon nanohorn – coumarin hybrid material” *Chem. Phys. Lett.*, **2011**, *516*, 76.
29. G. C. Papavassiliou, **G. Pagona**, N. Karousis, G. A. Mousdis, I. Koutselas, A. Vassilakopoulou “Nanocrystalline/microcrystalline materials based on lead-halide units” *J. Mater. Chem.*, **2012**, *22*, 8271.
30. **G. Pagona**, G. E. Zervaki, A. S. D. Sandanayaka, O. Ito, G. Charalambidis, T. Hasobe, A. G. Coutsolelos, N. Tagmatarchis “Carbon Nanohorn–Porphyrin Dimer Hybrid Material for Enhancing Light-Energy Conversion” *J. Phys. Chem. C*, 2012, *116*, 9439.
31. G. C. Papavassiliou, **G. Pagona**, G. A. Mousdis, N. Karousis “Enhanced phosphorescence from nanocrystalline/microcrystalline materials based on $(\text{CH}_3\text{NH}_3)(1\text{-naphthylmethyl ammonium})_2\text{Pb}_2\text{Cl}_7$ and similar compounds” *Chem. Phys. Lett.*, **2013**, *570*, 80.
32. **G. Pagona**, G. Rotas, N. Tagmatarchis “Supramolecular association of oligophenylenevinylene-based Hamilton receptor and fullerene-based cyanurate via multiple hydrogen bonding” *Fullerenes, Nanotubes and Carbon Nanostructures*, **2013**, **ASAP**.