

DR. DENDRINOUS-SAMARA CATHERINE

Associate Professor of *Inorganic Chemistry*



CURRICULUM VITAE

AFFILIATION : Associate Professor, Lab. of Inorganic Chemistry, Faculty of Chemistry, Aristotle Univ. of Thessaloniki, 54124 Thessaloniki, GREECE.

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MARITAL STATUS: Married, mother of two children

EDUCATION: Dipl. Food Technology, 1981, Tech. Educ. Inst. Thessaloniki, Greece.

Dipl. Chemistry, 1985, Aristotle Univ. of Thessaloniki, Greece.

Ph.D. Inorganic Chemistry, 1992, Aristotle Univ. of Thessaloniki, Greece.

Visiting Researcher, 1987 (3 months), Freie Universitaet Berlin, Prof. Dr-W.P. Fehlhammer

Visiting Researcher, 2007 (6 months), The Manchester University, UK, Prof. R. Winpenny

Research interests:

Synthesis and characterization of a variety of inorganic compounds and materials ranging from mononuclear complexes to polynuclear one and farther to nanoscale particles that permits to investigate magnetic properties and biomedical applications. In specific:

- Copper, Cobalt, Manganese Complexes with tripodals and/or with thiophen-2-yl saturated and α , β unsaturated substituted carboxylic acids: Structure, Magnetic properties, Bioactivity
- Single-Molecule Magnets of Manganese and Cobalt complexes
- Synthesis, structural characterisation and magnetic properties of Ferrite nanoparticles candidates for Biomedical applications: Imaging Diagnostics (MRI) and Therapeutics (Hyperthermia)
- Synthesis, Characterization and Bioactivity of Cu-based nanoparticles

SCIENTIFIC OVERVIEW IN NUMBERS	
Publications in ISI referred journals	64
h-index	22
Citations to the published work (by others)	>1500
Presentations in International Conferences	84
Presentations in National Conferences	28
Invited presentations	15
Chapters in multiauthor books	2

Participation in Programs

2012-2015: Coordinator: "Smart" Magnetic nanoparticles probes for magnetic Resonance Imaging(MRI) Granted by European Social Fund and Greek National Funds through the Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) Research Funding Program: THALES.

2012-2013: Coordinator: "Synthesis and characterization of bifunctional magnetic nanoparticles for MRI and PET Imaging" Granted by Research Committee of Aristotle Univ.of Thessaloniki Research Funding Program: ARISTIA

2005-2009 "Magnetic Nanoparticles" Granted by Greek Secretariat of Research and Technology Contract No: 03ED667.

2005-2009 "Guest-Host Chemistry: synthesis and characterization of metallocrowns and metallocryptates hosting complexes or ions. Chemical, magnetic and biological behavior." Granted by Greek Secretariat of Research and Technology

2005-2008: Synthesis and Orbital Magnetism of core-shell nanoparticles EU funded Marie Curie Research Training Network 80195

2004-....OBE-net Coordinator: "Development and Control of compounds with biological interest". Granted by Research Committee of Aristotle Univ.of Thessaloniki.

2004-2007: "Biological activity of transition metals complexes with herbicides as ligands" Granted by the Greek Secr. of the Ministry of Research and Development.

2003-2007: Working group 0010 of COST D21, network of Bioinorganic Chemistry Laboratories. Granted by the European Commission

Reviewer in International scientific journals: *Dalton Transactions, New J. of Chemistry, Nanoscale, J. of Materials Chemistry, Chem. Commun., J. of Nanoparticle Research, Polyhedron, Am. Chem. Soc. Crystal Growth & Design, J. Inorganic Biochemistry, PCCP, Bioinorganic Chem. and Applications*

Education duties

Under-graduate level:

- "Inorganic Chemistry -Elements" 2nd semester- Chemistry Department
- "Nanochemistry" 5th semester- Chemistry Department
- "Inorganic Reaction Mechanisms" 5th semester- Chemistry Department

- "Chemistry" 1st semester- Physics Department
- "Inorganic Elements" 2nd semester - Physics Department

Post-graduate level:

- "Advanced Inorganic Chemistry" 1st semester -MSc Course - Chemistry Department
- "Bioinorganic Chemistry" 2nd semester - MSc Course - Chemistry Department
- "Nanosynthesis & Nanoprocesses" 3rd semester - MSc Course in Nanosciences and Nanotechnologies

PhD Students Supervisor: 4

Publications in ISI referred journals:

1. «Reducing the inversion degree of MnFe_2O_4 nanoparticles through synthesis to enhance magnetization; Evaluation of their ^1H NMR relaxation and heating efficiency» K. Vamvakidis, M. Katsikini, D. Sakellari, E. C. Paloura, O. Kalogirou and **C. Dendrinou-Samara** *Dalton Trans.*,
2. «Application of hydrophobically modified water-soluble polymers for the dispersion of hydrophobic magnetic nanoparticles in aqueous media» Z. Iatridi, V. Georgiadou, M. Menelaou, **C. Dendrinou-Samara** and G. Bokias *Dalton Trans.*,
3. «From molecular magnets to magnetic nanomaterials: Deposition of Co_7 single-molecule magnet; Theoretical investigation of the exchange interactions» V. Tangoulis, M. Skarlis, C.P. Raptopoulou, V. Psycharis, **C. Dendrinou-Samara** *Eur. J. Inorg. Chem.*,
4. «Oleylamine as a beneficial agent for the synthesis of CoFe_2O_4 nanoparticles with potential biomedical uses», V. Georgiadou, C. Kokotidou, B. Le Droumaguet, B. Carbonnier, Th. Choli-Papadopoulou, **C. Dendrinou-Samara** *Dalton Trans.*, 2014, DOI:10.1039/C3DT53179A.
5. «Evaluation of nickel ferrite nanoparticles coated with oleylamine by NMR relaxation measurements and magnetic hyperthermia» M. Menelaou, K. Georgoula, K. Simeonidis, **C. Dendrinou-Samara**, *Dalton Trans.*, 2014, 43 (9), 3626 - 3636
6. «Hydrothermal synthesis of copper based nanoparticles: Antimicrobial screening and interaction with DNA», K. Giannousi, K. Lafazanis, J. Arvanitidis, A. Pantazaki, **C. Dendrinou-Samara**, *J. Inorg. Biochem.*, 2014, 133, 24–32
7. «Synthesis, characterization, DNA binding properties and antioxidant activity of a manganese(II) complex with NO_6 chromophore», S. Karastogianni, **C. Dendrinou-Samara**, El. Ioannou, C. P. Raptopoulou, D. Hadjipavlou-Litina, S. Grousi, *J. Inorg. Biochem.*, 2013, 118, 48–58

8. «Defective dicubanes of Coll/ColII complexes with triethanolamine and N-donors», S. R. Hosseinian, V. Tangoulis, M. Menelaou, C. P. Raptopoulou, V. Psycharis, **C. Dendrinou-Samara**, *Dalton Trans.*, 2013, 42 (15), 5355 - 5366
9. «Size and compositional controlled manganese ferrite nanoparticles with enhanced magnetization», K. Vamvakidis, D. Sakellari, M. Angelakeris, **C. Dendrinou-Samara**, *J. Nanopart. Res.* 2013, 15(6), art No 1743
10. «Synthesis, characterization and evaluation of copper based nanoparticles as agrochemicals against *Phytophthora infestans*», K. Giannousi, I. Avramidis, **C. Dendrinou-Samara***, *RSC Adv.*, 2013, 3, 21743–21752
11. «Photochemically-driven methods for the in situ and site-specific fabrication of monolithic-based electrochromatographic microsystems, V. Georgiadou, M. Guerrouache, C. Zlotea, **C. Dendrinou-Samara**, C. Latroche, M.-C. Millot, B. Carbonnier, *Key Engineering Materials*, 2013, 543 , 227-230
12. «The role of synthetic parameters in the magnetic behavior of relative large hcp Ni nanoparticles» Kotoulas, M. Gjoka, K. Simeonidis, I. Tsiaoussis, M. Angelakeris, O. Kalogirou, **C. Dendrinou-Samara**, *J. Nanopart. Res.* 2011, 13 (5), pp. 1897-1908
13. «In vitro application of Fe/MgO nanoparticles as magnetically mediated hyperthermia agents for cancer treatment» A. Chalkidou, K. Simeonidis, M. Angelakeris, T. Samaras, C. Martinez-Boubeta, Ll. Balcells, K. Papazisis, **C. Dendrinou-Samara**, O. Kalogirou, *J. Magnetism & Magnet. Mat.*, 2011, 323, 775–780
14. «Synthesis and pharmacochemical study of mixed ligand copper(II) complexes with triethanolamine and thiophenyl-2 saturated carboxylic acids» Z. Bousourani, E. Pontiki, C. P. Raptopoulou, K. Repana G. D.Geromichalos, D. Chatzipaulou-Litina, **C. Dendrinou-Samara**, *J. Inorg. Biochem.*, 2011, 105, 839-849
15. «Linear ferromagnetic and antiferromagnetic trinuclear copper(II) complexes. Counterplay between zero-field effects of the quartet ground state and intermolecular interactions» Z. Bousourani, V. Tangoulis, V. Psycharis, C. P. Raptopoulou, **C. Dendrinou-Samara**, *Dalton Trans.*, 2011, 40, 7946-7956
16. «Morphology influence on nanoscale magnetism of Co nanoparticles: Experimental and theoretical aspects of exchange bias» K. Simeonidis, C. Martinez-Boubeta, A. Cabot, O. Iglesias, M. Angelakeris, S. Mourdikoudis, I. Tsiaoussis, A. Delimitis, **C. Dendrinou-Samara**, O. Kalogirou, *Physical Review B Condensed Matter and Materials Physics*, 2011, 84, 144430
17. «Size-induced effects in wet-chemically synthesized CoPt₃ nanoparticles» S. Mourdikoudis, K. Simeonidis, K. Gloystein, M. Angelakeris, **C. Dendrinou-Samara**, F. Tuna, O. Kalogirou, *J. Nanosci. Nanotechnol.* 2010,10,(9), 6087-6092
18. «Non-oxido mixed-valence Mn^{II}₆Mn^{III}₄ cluster with benzoate, triethanolamine and phosphonate-bridged ligands» **C. Dendrinou-Samara**, C. A. Muryn, F. Tuna, R. E. P. Winpenny, *Eur. J. Inorg. Chem.*, 2010, 20, 3097-3101

19. «The effect of composition and structural ordering on the magnetism of FePt nanoparticles» O. Kalogirou, M. Angelakeris, **C. Dendrinou-Samara**, S. Mourdikoudis, K. Simeonidis, K. Gloystein, A. Vilalta-Clemente and I. Tsiaoussis, *J. Nanosci. Nanotechnol.* 2010,10 (9), 6017-6023
20. «Copper inverse-9-Metallacrown-3 compounds interacting with DNA» T. Afrati, **C. Dendrinou-Samara**, C. Raptopoulou, A. Terzis, A. A. Pantazaki, D. P. Kessissoglou *Dalton Trans.*, 2010, 39, 765-775
21. «Tailoring the morphology of $\text{Co}_x\text{Pt}_{1-x}$ magnetic nanostructures» S. Mourdikoudis, K. Simeonidis, K. Gloystein, M. Angelakeris, **C. Dendrinou-Samara**, I. Tsiaoussis, O. Kalogirou, *J. Magnetism & Magnet. Mat.*, 321, 2009, 3120-3125
22. «Controlling the crystal structure of Ni nanoparticles by the use of alkylamines» S. Mourdikoudis, K. Simeonidis, A. Vilalta-Clemente, F. Tuna, M. Angelakeris, **C. Dendrinou-Samara**, O. Kalogirou *J. Magnetism & Magnet. Mat.*, 321, 2009, 2723-2728
23. «Effects of various chemical synthetic routes on structural and magnetic features of Mn-Pt bimetallic nanoparticles» S. Mourdikoudis, A. Shavel, B. Rodríguez-González, C. Serra, K. Simeonidis, M. Angelakeris, O. Kalogirou, **C. Dendrinou-Samara**, *Polyhedron* 28, 2009, 3284-3290.
24. «Impact of synthesis parameters on structural and magnetic characteristics of Co-based nanoparticles» S. Mourdikoudis, K. Simeonidis, I. Tsiaoussis, **C. Dendrinou-Samara**, M. Angelakeris, O. Kalogirou *J. Nanopart. Res.*, 11, 2009, 1477-1484.
25. «Thermal treatment effects in the self-assembly of FePt nanoparticle arrays» K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, **C. Dendrinou-Samara**, M. Angelakeris, O. Kalogirou, *J. Magnetism & Magnet. Mat.* 2008,320, 2665- 2671
26. «Structural and Physical Characterization of Tetranuclear $[\text{Mn}^{\text{II}}_3\text{Mn}^{\text{IV}}]$ and $[\text{Mn}^{\text{II}}_2\text{Mn}^{\text{III}}_2]$ Valence-Isomers Manganese Clusters» C. Zaleski, Tsu-Chen Weng, **C. Dendrinou-Samara**, M. Alexiou, P. Kanakarakis, Wen-Yuan Hsieh, J. Kampf, J. Penner-Hahn, V. Pecoraro, D. P. Kessissoglou *Inorg. Chem.*, 2008, 47,6127-6136. Εξώφυλλο στο τεύχος 14.
27. «Experimental and theoretical study of the antisymmetric magnetic behaviour of Copper inverse-9-Metallacrown-3» T. Afrati, **C. Dendrinou-Samara**, C. P. Raptopoulou, A. Terzis, V. Tangoulis, A. Tshipis, D. P. Kessissoglou, *Inorg. Chem.*, 2008, 47, 7545-7555.
28. «Structural and magnetic features of heterogeneously nucleated Fe-oxide nanoparticles.» K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, M. Angelakeris, **C. Dendrinou-Samara**, O. Kalogirou, *J. Magnetism & Magnet. Mat.*, 2008, 320, 1631-1638.
29. «Low-dimensional Copper(II) complexes triply bridged with azide/carboxylate/ dmsO showing very strong ferromagnetic interaction and influence of dipolar fields at low temperatures: A Quantum Monte Carlo Magnetic Study» V. Tangoulis, D. Panagoulis, C. P. Raptopoulou, **C. Dendrinou-Samara**, *Dalton Trans.*, 2008, 1752 - 1760.

30. «Synthesis, structure and interactions with DNA of novel tetranuclear, [Mn₄(II/II/II/IV)] mixed valence complexes» A. Dimitrakopoulou, **C. Dendrinou-Samara**, A. A. Pantazaki, M. Alexiou, E. Nordlander, D. P. Kessissoglou, *J. Inorg. Biochem.* 2008, 102, 618-628.
31. «Oxidation process of Iron nanoparticles» K. Simeonidis, S. Mourdikoudis, M. Moulla, I. Tsiaoussis, M. Angelakeris, O. Kalogirou, A. Delimitis, **C. Dendrinou-Samara**, *J. Modern Physics Letters B* 21, 2007, 1143-1151.
32. «Copper inverse-9-metallacrown-3 compounds showing antisymmetric magnetic behavior» T. Afrati, **C. Dendrinou-Samara**, C. P. Raptopoulou, A. Terzis, V. Tangoulis, D. P. Kessissoglou, *Dalton Trans.* 2007, 5156-5164.
33. «Controlled synthesis and phase characterization of Fe-based nanoparticles obtained by thermal decomposition» K. Simeonidis, S. Mourdikoudis, M. Moulla, I. Tsiaoussis, C. Martinez-Boubeta, M. Angelakeris, **C. Dendrinou-Samara**, O. Kalogirou, *J. Magnetism & Magnet. Mat.*, 2007, 316, 1-4.
34. «Di-2-Pyridyl Ketone Oxime in Copper Chemistry: di-, tri-, penta- and hexanuclear Clusters» T. Afrati, C. M. Zaleski, **C. Dendrinou-Samara**, G. Mezei, J. W. Kampf, V. L. Pecoraro, D. P. Kessissoglou, *Dalton Trans* 2007, 2658-2668.
35. «Synthesis and pharmacochemical study of new Cu(II) complexes with thiophen-2-yl saturated and α , β unsaturated substituted carboxylic acids» D. Panagoulis, E. Pontiki, E. Skeva, C. Raptopoulou, S. Girousi, D. Hadjipavlou-Litina, **C. Dendrinou-Samara**, *J. Inorg. Biochem.*, 2007, 101, 623-634.
36. «Interaction of Fe(III) with herbicide-carboxylato ligands. Di-, tri- and tetra-nuclear compounds. Structure, antimicrobial study and DNA interaction» A. Dimitrakopoulou, **C. Dendrinou-Samara**, A. A. Pantazaki, C. Raptopoulou, A. Terzis, E. Samaras, D. P. Kessissoglou, *Inorg. Chim. Acta* 2007, 360, 546-556.
37. «Interaction of Fe(III) with herbicide-carboxylato ligands. Di-, tri- and tetra-nuclear compounds. Structure and magnetic behavior» **C. Dendrinou-Samara**, S. Katsamakias, C. Raptopoulou, A. Terzis, E. Samaras, V. Tangoulis, D. P. Kessissoglou, *Polyhedron*, 2007, 26, 763-772.
38. «Synthesis and Structure of [18-MC_{CuII(N)pk_o}-6]⁶⁺: A New Member of anion encapsulating metallamacrocyles» T. Afrati, **C. Dendrinou-Samara**, C. M. Zaleski, J. W. Kampf, V. L. Pecoraro, D. P. Kessissoglou, *Inorg. Chem. Commun.*, 2005, 8, 1173-1176.
39. «Metallacryptate Single-Molecyar Magnets: The effect of Lower Molecular Symmetry on Blocking Temperature», C. M. Zaleski, E. C. Department, **C. Dendrinou-Samara**, M. Alexiou, J. W. Kampf, D. P. Kessissoglou, M. L. Kirk, V. L. Pecoraro, *J. Amer. Chem. Soc.*, 2005 127, 12862-12872
40. «Di-2-Pyridyl Ketone Oxime in Zinc Chemistry: Inverse 12-Metallacrown-4 Complexes and Cationic Pentanuclear Clusters», M. Alexiou, E. Katsoulakou, **C.**

Dendrinou-Samara, C.P. Raptopoulou, V. Psycharis, E. Manessi-Zoupa, S.P. Perlepes, D.P. Kessissoglou, *Eur. J. Inorg. Chem.*, 2005, 1964-1978

41. «Inter-conversion of 15-MC-5 to 12-MC-4 Manganese Metallacrowns. Structure and bioactivity of Metallacrowns Hosting carboxylato Complexes», **C. Dendrinou-Samara**, A. N. Papadopoulos, D. Malamataris, A. Tarushi, C. Raptopoulou, A. Terzis, El. Samaras, D. P. Kessissoglou, *J. Inorg. Biochem.*, 2005, 99, 864-875
42. «A Cationic Tetranuclear $[\text{Ni}(\text{II})(\text{MeOH})_2(\text{pko})_6]^{2+}$ Cluster Showing Antiferro- and Ferro-magnetic Features» M. Alexiou, **C. Dendrinou-Samara**, C. P. Raptopoulou, A. Terzis, V. Tangoulis, D. P. Kessissoglou, *Eur. J. Inorg. Chem.*, 2004, 3822-3827
43. «A cationic 24-MC-8 Manganese cluster with ring metals possessing three oxidation states $[\text{Mn}^{\text{II}}_4\text{Mn}^{\text{III}}_6\text{Mn}^{\text{IV}}_2(\mu_4\text{-O})_2(\mu_3\text{-O})_4(\mu_3\text{-OH})_4(\mu_3\text{-OCH}_3)_2(\text{pko})_{12}] (\text{OH})(\text{ClO}_4)_3$ » **C. Dendrinou-Samara**, C. M. Zaleski, A. Evagorou, J. Kampf, V. L. Pecoraro, D. P. Kessissoglou, *Chem. Comm.*, 2003, 2668-2669.
44. «Trinuclear mixed-valent $\text{Mn}^{\text{II}}/\text{Mn}^{\text{IV}}/\text{Mn}^{\text{II}}$ complexes. Structure and magnetic behavior», M. Alexiou, C. M. Zaleski, **C. Dendrinou-Samara**, J. Kampf, D. P. Kessissoglou, V. L. Pecoraro, *Z. Anorg. Allg. Chem.* 2003, 629, 2348-2355.
45. «Synthesis and magnetic properties of a metallacryptate that behaves as a Single-Molecule Magnet», **C. Dendrinou-Samara**, M. Alexiou, C. M. Zaleski, J. Kampf, M. L. Kirk, D. P. Kessissoglou, V. L. Pecoraro, *Angew. Chem. Int. ed.*, 2003, 42, 3763-3766
46. «Models for the lower S states of Photosystem II: A trinuclear mixed-valent $\text{Mn}^{\text{II}}/\text{Mn}^{\text{IV}}/\text{Mn}^{\text{II}}$ complex», M. Alexiou, **C. Dendrinou-Samara**, A. Karagianni, S. Biswas, C. M. Zaleski, J. Kampf, J. Penner-Hahn, V. L. Pecoraro, D. P. Kessissoglou, *Inorg. Chem.*, 2003, 42, 2185-2187
47. «The effect of Fused 12-Membered Nickel Metallacrowns on DNA and their Antibacterial Activity», I. Tsivikas, M. Alexiou, A. A. Pantazaki, **C. Dendrinou-Samara**, D. A. Kyriakidis, D. P. Kessissoglou, *Bioinorg. Chem. and Appl.*, 2003, 1, 85-97
48. «High Nuclearity Nickel Compounds with three, four, or five Metal Atoms Showing Antibacterial Activity», M. Alexiou, I. Tsivikas, **C. Dendrinou-Samara**, A. Pantazaki, P. Trikalitis, N. Lalioti, D.A. Kyriakidis, D. P. Kessissoglou, *J. Inorg. Biochem.*, 2003, 93, 256-264
49. «Herbicides interacting with Lanthanide(III) and Calcium(II) ions: Structural and biological similarities of Gd and Ca polymers» **C. Dendrinou-Samara**, D. Drosou, L. Iordanidis, A. Terzis, D. P. Kessissoglou, *J. Inorg. Biochem.*, 2002, 92, 156-164.
50. «From Monomer Zinc-oxamate Complexes to Tetranuclear *Inverse* 12-Membered and Octanuclear 12-Membered Metallacrowns» M. Alexiou, **C. Dendrinou-Samara**, C. P. Raptopoulou, A. Terzis, D. P. Kessissoglou, *Inorg. Chem.*, 2002, 41, 4732-4738
51. «A Tetranuclear Mixed-Valence $\text{Mn}(\text{II})_3\text{Mn}(\text{IV})$ Compound with $(\mu_4\text{-O})\text{Mn}_4$ Core» T. Afrati, **C. Dendrinou-Samara**, C. P. Raptopoulou, A. Terzis, V. Tangoulis, D. P. Kessissoglou, *Angew. Chem. Int. ed.*, 2002, 41, 2148-2150.

52. «15-MC-5 Manganese Metallacrowns Hosting Herbicide Complexes. Structure and Bioactivity» **C. Dendrinou-Samara**, L. Alevizopoulou, L. Iordanidis, E. Samaras, D.P. Kessissoglou, *J. Inorg. Biochem.*, 2002, 89, 89-96.
53. «Pseudohalide Complexation by Manganese 12-Metallacrowns-4 Complexes», D.P. Kessissoglou, J. Bodwin, J. Kampf, **C. Dendrinou-Samara**, V. L. Pecoraro, *Inorg. Chim. Acta*, 2002, 331,73-80.
54. «Host-guest interaction of 12-MC-4, 15-MC-5 and fused 12-MC-4 Metallacrowns with mononuclear and binuclear Carboxylato Complexes: Structure and Magnetic behavior» **C. Dendrinou-Samara**, G. Psomas, L. Iordanidis, V. Tangoulis. D.P. Kessissoglou, *Chem. a Eur. J.*, 2001, 7, 5041-5051
55. «Preparation of site differentiated mixed ligand and mixed ligand/mixed metal Metallacrowns. » G. Psomas, A. J. Stemmler, C. Dendrinou-Samara, J. Bodwin, M. Schneider, M. Alexiou, J. Kampf, D.P. Kessissoglou, V. L. Pecoraro, *Inorg. Chem.*, 2001, 40, 1562-1570.
56. «Copper(II) complexes with phenoxyalcanoic acids and nitrogen donor heterocyclic ligands: Structure and Bioactivity» **C. Dendrinou-Samara**, G. Psomas, C. P. Raptopoulou, D.P. Kessissoglou, *J. Inorg. Biochem.*, 2001, 83,7-16.
57. «Structurally diverse Copper(II)-Carboxylato Complexes: Neutral and Ionic Mononuclear and a Novel Binuclear Structure», G. Psomas, C. P. Raptopoulou, L. Iordanidis, **C. Dendrinou-Samara**, V. Tangoulis, D.P. Kessissoglou, *Inorg. Chem.*, 2000, 39, 3042-3048
58. «The first Fused Dimer Metallacrown $\text{Ni}^{\text{II}}_2(\text{mcpa})_2(\text{CH}_3\text{OH})_3(\text{H}_2\text{O})[12\text{-MC}_{\text{Ni}(\text{II})\text{N}(\text{shi})_2(\text{pko})_2-4}] [12\text{-MC}_{\text{Ni}(\text{II})\text{N}(\text{shi})_3(\text{pko})-4}]$ » G. Psomas, **C. Dendrinou-Samara**, M. Alexiou, A. Tsohos, C.P. Raptopoulou, A. Terzis, D.P. Kessissoglou, *Inorg. Chem.*, 1998, 37, 6556-6557
59. «Anti-inflammatory Drugs Interacting with Zn(II), Cd(II) and Pt(II) Metal Ions.» **C. Dendrinou-Samara**, G. Tsotsou, L. Ekateriniadou, A. Kortsaris, D. Kyriakidis, C.P. Raptopoulou, A. Terzis, D.P. Kessissoglou, *J. Inorg. Biochem.*, 1998, 71, 171-179.
60. «Cu^{II}-herbicide Complexes: Structure and Bioactivity» G. Psomas, **C. Dendrinou-Samara**, P. Philippakopoulos, V. Tangoulis, C.P. Raptopoulou, A. Terzis, E. Samaras, D.P. Kessissoglou, *Inorg. Chim. Acta*, 1998, 272, 24-32.
61. «A Two-D Manganese^{II} Carboxylato Polymer. Structure, Magnetism and EPR Study» Tangoulis, G. Psomas, **C. Dendrinou-Samara**, C.P. Raptopoulou, A. Terzis, D.P. Kessissoglou, *Inorg. Chem.*, 1996, 35, 7655-7660.
62. «Structurally diverse of Copper(II) herbicide Complexes: Mono- & Bi-nuclear Neutral or Cationic Complexes» **C. Dendrinou-Samara**, G. Psomas, K. Christophorou, V. Tangoulis, C.P. Raptopoulou, A. Terzis, D.P. Kessissoglou. *J. Chem. Soc., Dalton Trans.*, 1996, 3737-3743.
63. «Copper(II) Complexes with Antiinflammatory drugs as ligands. Solution behaviour and Electrochemistry of Mono- and Bi-nuclear Complexes» **C. Dendrinou-Samara**,

P.D. Jannakoudakis, D.P. Kessissoglou, G.E. Manousakis, D. Mentzafos, A. Terzis, *J. Chem. Soc., Dalton Trans.*, 1992, 3259-3264.

64. «Copper(II) Complexes with Antiinflammatory Drugs as Ligands. Molecular and crystal structures of Bis(dimethylsulfoxide)tetrakis(6-methoxy- α -methyl-2-naphthalene-acetato) dicopper(II) and bis(dimethylsulfoxide)tetrakis(1-methyl-5-(toluoyl)-1H-pyrrole-2-acetato) dicopper(II) compounds» C. Dendrinou-Samara, D.P. Kessissoglou, G.E. Manousakis, D. Mentzafos, A. Terzis, *J. Chem. Soc., Dalton Trans.*, 1990, 959-965

Presentations in international scientific conferences

1. «Tailoring Size & Composition in Manganese Ferrite Nanoparticles to enhance magnetization», K. Vamvakidis, M. Menelaou, D. Sakellari, C. Dendrinou-Samara, 1st International Symposium on Nanoparticles/Nanomaterial and Applications, 20th - 22nd January 2014, Caparica - Portugal, Book of abstracts p. 103
2. «Cu-based Nanoparticles as Nano-antimicrobials» K. Giannousi, A. Pantazaki, D. Gkoutzikostas, C. Dendrinou-Samara, 1st International Symposium on Nanoparticles/Nanomaterial and Applications, 20th - 22nd January 2014, Caparica - Portugal, Book of abstracts p. 100
3. **Invited Speaker** «Ferrite nanoparticles MFe_2O_4 (M = Mn, Co, Ni) candidates for theranostics», C. Dendrinou-Samara, 1st International Symposium on Nanoparticles/Nanomaterial and Applications. 20th - 22nd January 2014, Caparica - Portugal, Book of abstracts p. 145
4. «Cu-based Nanoparticles as Nano-agrochemicals», K. Giannousi, I. Avramidis and C. Dendrinou-Samara, Agricultural Informatics 2013 International Conference The past, present and future of agricultural informatics, 8-9 November 2013, Debrecen, Hungary
5. «Preparation of amphiphilic copolymers for the encapsulation of MFe_2O_4 nanoparticles (M= Mn, Co, Ni)» Z. Iatridi, V. Georgiadou, K. Vamvakidis, M. Menelaou, G. Bokias, C. Dendrinou-Samara, 10th International Conference on Nanosciences and Nanotechnologies July 9-12, 2013, Thessaloniki, GREECE, Book of abstracts p. 146
6. «Cobalt Ferrite Nanoparticles as Candidates for MRI Probes and Biological Applications» V. Georgiadou, C. Kokotidou, T. Papadopoulou-Choli, C. Dendrinou-Samara 9th EUROMAR 2013 June 30-July 5, 2013, Hersonissos, Crete, GREECE, Book of abstracts p. 409TU
7. «T2 Relaxivity of Superparamagnetic Ferrite Nanoparticles MFe_2O_4 (M= Mn, Co, Ni)» M. Menelaou, K. Vamvakidis, K. Georgoula, C. Dendrinou-Samara 9th EUROMAR 2013 June 30-July 5, 2013, Hersonissos, Crete, GREECE, Book of abstracts p. 408MO

8. **Invited Speaker** «Ferrite nanoparticles with enhanced magnetization candidates for theranostics» C. Dendrinou-Samara προσκεκλημένη ομιλήτρια, Drug Discovery & Therapy World Congress, June 3-6 2013, Boston, MA, USA, Book of abstracts p. 59.
9. **Invited Speaker** «Nanosynthesis of magnetic nanoparticles» C. Dendrinou-Samara 21-26/5 /2012, Faculty of Sciences and Technology, University of Paris East Créteil, France
10. **Invited Speaker** «Solvothermal synthesis and magnetic characterization of ferrite nanoparticles MFe_2O_4 (M=Ni, Co, Mn)» C. Dendrinou-Samara Current Trends in Molecular and Nanoscopic Magnetism (CTMNM), June 11-14 2012, Ouranoupolis, Chalkidiki, Greece, Book of abstracts p. 14.
11. «AC magnetic hyperthermia efficiency of Ni ferrite nanoparticles», G. Stefanou, Th. Kalampaliki, K. Simeonidis, M. Angelakeris, C. Dendrinou-Samara and O.Kalogirou, SMM20, 18-22 September 2011 Kos, Greece
12. «Mononuclear vs Dinuclear vs Trinuclear Cu(II) complexes: Synthesis, Pharmacochemical and Anticancer activity» C. Dendrinou-Samara, 4th North America-Greece-Cyprus Workshop on Paramagnetic Materials, Patras, 14 - 18 June 2011
13. «Solvothermal-Hydrothermal synthesis of manganese ferrite magnetic nanoparticles» K. Vamvakidis, K. Simeonidis, M. Angelakeris, O. Kalogirou, C. Dendrinou-Samara, 8th International Conference on Nanosciences and Nanotechnologies, 12-15 July 2011, Thessaloniki, Greece
14. «Synthesis and characterization of $CoFe_2O_4$ cobalt ferrite nanoparticles» V. Georgiadou, K. Simeonidis, O. Kalogirou, C. Dendrinou-Samara, 8th International Conference on Nanosciences and Nanotechnologies, 12-15 July 2011, Thessaloniki, Greece
15. «Development and application of a dsDNA electrochemical biosensor in the study of Mn(II) complexes with biologically active ligands» S. Karastogianni, E. Ioannou, C. Dendrinou-Samara, S. Girousi, Book of abstracts p. 252, 7th Aegean Analytical Chemistry Days - AACD2010, Lesvos, Greece, 29th September - 3rd October 2010
16. «Synthesis and characterization of $NiFe_2O_4$ core shell nanoparticles» Th. Kalampaliki, M. Darda, K. Simeonidis, M. Angelakeris, C. Dendrinou-Samara, 7th International Conference on Nanosciences and Nanotechnologies, 13-15 July 2010, Halkidiki, Greece
17. «Hyperthermia response of iron oxide nanoparticles taken up by cancer cells» E. Gkanas, M. Kouretas, A.K. Kotoulas, M. Angelakeris, K. Chlichlia, C. Dendrinou-Samara, Th. Samaras, O. Kalogirou, 7th International Conference on Nanosciences and Nanotechnologies, 13-15 July 2010, Halkidiki, Greece

18. «Structural and magnetic hyperthermia features of iron oxide nanoparticles» A.K. Kotoulas, E. Gkanas, K. Simeonidis, M. Angelakeris, C. Dendrinou-Samara, O. Kalogirou, 7th International Conference on Nanosciences and Nanotechnologies, 13-15 July 2010, Halkidiki, Greece
19. «Synthesis, antiinflammatory and anticancer activity of binuclear and trinuclear copper (II) complexes», E. Vasiliou, Z. Boulsourani, R. Hosseinian, C. P. Raptopoulou, E. Yiannaki, K. Repana, G. D.Geromichalos, D. Chatzipaulou-Litina, C. Dendrinou-Samara, The 5th Central European Conference – Chemistry towards Biology, Book of abstracts p.77, 8- 11 September 2010, Primosten, Croatia.
20. «Mn(II) complexes with biologically active ligands: Synthesis, characterization and evaluation on dsDNA», E. Ioannou, S. Karastogianni, C. Raptopoulou, S. Girousi, C. Dendrinou-Samara, PO-049, EUROBIC10, 22-26 June 2010, Thessaloniki, Greece.
21. «Synthesis, antiinflammatory and anticancer activity of binuclear and trinuclear copper (II) complexes», Z. Boulsourani, R. Hosseinian, C. P. Raptopoulou, Eftalia Yiannaki, K. Repana, G. D.Geromichalos, D. Chatzipaulou-Litina, C. Dendrinou-Samara PO-048, EUROBIC10, 22-26 June 2010, Thessaloniki, Greece.
22. «Pharmacochemical activity of dinuclear and trinuclear mixed ligand copper(II) complexes» C. Dendrinou-Samara and D. Hadjipavlou-Litina, 14th Hellenic Symposium on Medicinal Chemistry, 23-25 April 2010, Teloglion Foundation of Art, Thessaloniki, Greece.
23. «Preparation, Characterization and in-vitro toxicity test of nanoparticle-based system for magnetic hyperthermia of cancer tissues» A. Chalkidou, K. Simeonidis, Th. Samaras, C. Martinez-Boubeta, M. Angelakeris, K. Papazisis, C. Dendrinou-Samara and O. Kalogirou, 6th International Conference on Nanosciences and Nanotechnologies, 13-15 July 2009, Thessaloniki, Greece
24. «Controllable synthesis and characterization of hcp and fcc nickel nanoparticles» A. Kotoulas, C. Dendrinou-Samara, K. Simeonidis, S. Mourdikoudis, M. Angelakeris, M. Gjoka, J. Georgiadis and O. Kalogirou, XXV Panhellenic conference on Solid State Physics and Materials Science, 20-23 September 2009, Teloglion Foundation of Art, Thessaloniki, Greece. p.185 TU2 P32
25. «Controllable synthesis and characterization of hcp-nickel nanoparticles » A.K. Kotoulas, A. Dendrinou-Samara, S. Mourdikoudis, K. Simeonidis, M. Angelakeris, M. Gjoka, O. Kalogirou, 6th International Conference on Nanosciences and Nanotechnologies, 13-15 July 2009, Thessaloniki, Greece
26. **Invited Speaker** «Tailoring magnetic nanoparticles» C. Dendrinou-Samara Third-North America-Greece-Cyprus Workshop on Paramagnetic Materials, Cyprus, 15-19 June 2009.
27. **Invited Speaker** «Synthesis and pharmacochemical study of mixed ligand copper(II) complexes with triethanolamine and Thiophenyl-2 saturated carboxylic acids» Z. Boulsourani, E. Pontiki, C. Raptopoulou, D. Chatzipaulou-Litina C. Dendrinou-Samara 11th Conference in advanced Medicinal Chemistry “Approaches to rational drug design” 23-24 May 2009 Thessaloniki, Greece

28. «Controlling the crystal structure of Ni nanoparticles by the use of alkylamines» S. Mourdikoudis, K. Simeonidis, M. Angelakeris, A. Vilalta-Clemente, C. Dendrinou-Samara, F. Tuna and O. Kalogirou, XXIV Panhellenic Conference on Solid State Physics and Materials Science, September 21-24, 2008, Herakleion, Crete
29. «Heating Ability of Fe-based Nanoparticles with Various Sizes for Magnetic Hyperthermia» K. Gloystein, A. Vilalta-Clemente, K. Simeonidis, S. Mourdikoudis, T. Samaras, C. Dendrinou Samara, M. Angelakeris, O. Kalogirou, XXIV Panhellenic Conference on Solid State Physics and Materials Science, September 21-24, 2008, Herakleion, Crete
30. «Study of the Domain Structure of Nanoparticles by Magnetic Force Microscopy» A. Vilalta-Clemente, K. Gloystein, V. Karoutsos, P. Pouloupoulos, S. Soumelidis, S. Mourdikoudis, K. Simeonidis, I. Tsiaoussis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou, XXIV Panhellenic Conference on Solid State Physics and Materials Science, September 21-24, 2008, Herakleion, Crete
31. «Controlling the crystal structure of Ni nanoparticles by the use of alkylamines» S. Mourdikoudis, K. Simeonidis, M. Angelakeris, A. Vilalta-Clemente, C. Dendrinou-Samara, F. Tuna, O. Kalogirou, JEMS 2008- Joint European Magnetic Symposia, 14-19 September 2008, Dublin, Ireland
32. «Magnetic hardening of two-dimensional CoPt nanoparticle arrays» S. Mourdikoudis, K. Gloystein, K. Simeonidis, I. Tsiaoussis, C. Dendrinou-Samara, M. Angelakeris and O. Kalogirou, 20th Workshop on Rare Earth Permanent Magnets (REPM'08) and Applications, 8-10 September 2008, Herakleion, Crete
33. «Towards the study of Mn-Pt nanoparticles prepared by various chemical routes» S. Mourdikoudis, A. Shavel, K. Simeonidis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou, L. Liz-Marzan, 5th International Conference on Nanosciences & Nanotechnologies - NN08, 14-16 July 2008, Thessaloniki, Greece
34. «Surface magnetism and interface effects on Cobalt nanoparticles» K. Simeonidis, S. Mourdikoudis, C. Dendrinou-Samara, M. Angelakeris and O. Kalogirou 5th International Conference on Nanosciences & Nanotechnologies - NN08, 14-16 July 2008, Thessaloniki, Greece
35. «Structural and magnetic studies of chemically synthesized CoPt nanostructures» K. Gloystein, K. Simeonidis, I. Tsiaoussis, S. Mourdikoudis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou, 5th International Conference on Nanosciences & Nanotechnologies - NN08, 14-16 July 2008, Thessaloniki, Greece
36. «Colloidal Co magnetic nanoparticles: synthesis and morphology characterization» A. Vilalta-Clemente, S. Soumelidis, S. Mourdikoudis, I. Tsiaoussis, K. Simeonidis, V. Karoutsos, P. Pouloupoulos, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou, 5th International Conference on Nanosciences & Nanotechnologies - NN08, 14-16 July 2008, Thessaloniki, Greece
37. «The effect of composition and structural ordering on the magnetism of XPt (X= Fe, Co, Mn) nanoparticles» O. Kalogirou, M. Angelakeris, C. Dendrinou-Samara, S.

Mourdikoudis, K. Simeonidis, I. Tsiaoussis, 1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems, 16-18 June 2008, Porto Carras, Greece

38. «Magnetic features of Cobalt nanoparticles suitable for diverse technological applications» K. Simeonidis, S. Mourdikoudis, C. Samara-Dendrinou, M. Angelakeris, O. Kalogirou 1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems, 16-18 June 2008, Porto Carras, Greece
39. «Towards the study of Mn-Pt nanoparticles prepared by various chemical routes» S. Mourdikoudis, A. Shavel, K. Simeonidis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou, L. Liz-Marzan 1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems, 16-18 June 2008, Porto Carras, Greece
40. «Influence of synthesis conditions on structural and magnetic properties of CoPt-nanostructures» K. Gloystein, K. Simeonidis, I. Tsiaoussis, S. Mourdikoudis, C. Samara-Dendrinou, M. Angelakeris, O. Kalogirou 1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems, 16-18 June 2008, Porto Carras, Greece
41. «Colloidal Co magnetic nanoparticles: synthesis, structure and morphology» A. Vilalta-Clemente, S. Soumelidis, S. Mourdikoudis, I. Tsiaoussis, K. Simeonidis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou, 1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems, 16-18 June 2008, Porto Carras, Greece
42. «Structural and magnetic features of heterogeneously nucleated Fe-oxide nanoparticles», K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou, 6th Workshop on Synthesis and Orbital Magnetism of core-shell nanoparticles, Book of Abstracts p. 9, 19-20 October 2007, Prague.
43. «Effect of synthetic parameters on morphology and magnetism of Co-based nanoparticles», K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou, 6th International Conference on Fine Particle Magnetism, Book of Abstracts p. 133, 9-12 October 2007, Rome.
44. «Control of structural and magnetic characteristics on core (FePt)-shell (Fe_3O_4) nanoparticles», S. Mourdikoudis, K. Simeonidis, I. Tsiaoussis, M. Angelakeris, C. Dendrinou-Samara and O. Kalogirou, European Congress on Advanced Materials and Processes, September 2007, Nurnberg.
45. «Co-based Nanoparticles: Synthesis, Properties and Perspectives», S. Mourdikoudis, K. Simeonidis, M. Angelakeris, I. Tsiaoussis, O. Kalogirou and C. Dendrinou-Samara, 4th Workshop on Nanosciences & Nanotechnologies, Book of Abstracts p. 40, July 2007, Thessaloniki.
46. «Synthesis and Assembly of FePt nanoparticles», K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, E. Pavlidou, M. Angelakeris, C. Dendrinou-Samara and O. Kalogirou, 4th Workshop on Nanosciences & Nanotechnologies, Book of Abstracts p. 152, July 2007, Thessaloniki.

47. «Copper Inverse 9- Metallacrowns-3», D. P. Kessissoglou, T. Afrati, C. Dendrinou-Samara, C. Raptopoulou, A. Terzis, V. Tangoulis, 9th FIGIPAS Meeting in Inorganic Chemistry, 4-7 July 2007, Vienna, Austria, Book of Abstracts p. 115.
48. «Copper Metallacrowns and Manganese clusters interacting with DNA», T. Afrati, C. Dendrinou-Samara, A. Dimitrakopoulou, A. A. Pantazaki, C. Raptopoulou, A. Terzis, D. P. Kessissoglou, ICBIC XIII 13th International Conference on Biological Inorganic Chemistry, 15-20 July 2007, Vienna, Austria, Book of Abstracts p. 107.
49. **Invited Speaker** «Wet Synthesis of Iron Based Nanoparticles», C. Dendrinou-Samara, Second North America-Greece-Cyprus Workshop on Paramagnetic Materials. Book of Abstracts p.16,18-21 June, Syros, Greece
50. «Structural and magnetic characterization of FeCo nanoparticles», S. Mourdikoudis, C. Desvau, C. Amiens, K. Simeonidis, J. Tsiaoussis, M. Angelakeris, C. Dendrinou-Samara, B. Chaudret, O. Kalogirou, International Summer School & 4th Workshop on Synthesis and Orbital Magnetism of core-shell nanoparticles , Book of Abstracts p.49, September 2006, Thessaloniki.
51. «Control of structural and magnetic characteristics on Fe-based nanoparticles», K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, M. Angelakeris, C. Dendrinou-Samara and O. Kalogirou, International Summer School & 4th Workshop on Synthesis and Orbital Magnetism of core-shell nanoparticles, Book of Abstracts p.46, September 2006, Thessaloniki.
52. **Invited Speaker** «General aspects of wet chemical synthesis: Application on iron nanoparticles», C. Dendrinou-Samara, International Summer School & 4th Workshop on Synthesis and Orbital Magnetism of core-shell nanoparticles, Book of Abstracts p.15, September 2006, Thessaloniki.
53. «Magnetic Properties of Fe-Based Nanoparticles with Controllable Size and Composition», K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, M. Angelakeris, C. Dendrinou-Samara, and O. Kalogirou, 3rd Workshop on Nanosciences & Nanotechnologies, Book of Abstracts p.100, July 2006, Thessaloniki.
54. «Structural Analysis and Magnetic Characterization of Wet-Chemically Synthesized FePt Nanoparticles», N.I. Karageorgakis, K.Simeonidis, S. Mourdikoudis, I. Tsiaoussis, M. Angelakeris, C. Dendrinou-Samara, and O. Kalogirou, 3rd Workshop on Nanosciences & Nanotechnologies, Book of Abstracts p.88, July 2006, Thessaloniki.
55. «Controlled synthesis and phase characterization of Fe-based nanoparticles obtained by thermal decomposition», K. Simeonidis, S. Mourdikoudis, M. Moulla, I. Tsiaoussis, C. Martinez-Boubeta, M. Angelakeris, C. Dendrinou-Samara, and O. Kalogirou, Joint of European Magnetic Symposiums, June 2006, San Sebastian.
56. «Controlled synthesis and phase characterization of Fe-based nanoparticles obtained by thermal decomposition», K. Simeonidis, S. Mourdikoudis, M. Moula, I. Tsiaoussis, C. Sarafidis, C. Martinez-Boubeta, M. Angelakeris, E. Samaras, O. Kalogirou C. Dendrinou-Samara, 3rd IUPAC-sponsored International Symposium on Macro- and Supramolecular Architectures and Materials (MAM-06): Practical Nano-

Chemistry and Novel Approaches. Book of Abstracts p.250, 28 May-1 June, Waseda, Tokyo, Japan.

57. **Invited Speaker** «Host-guest interaction of Metallacrowns with herbicide complexes» C. Dendrinou-Samara, 3rd IUPAC-sponsored International Symposium on Macro- and Supramolecular Architectures and Materials (MAM-06): Practical Nano-Chemistry and Novel Approaches. Book of Abstracts p. 112, 28 May-1 June, Waseda, Tokyo, Japan.
58. «Probind the S₀ State of Photosystem II with Isoelectrostatic Mixed-Valent Tetrameric Manganese Complexes», C. M. Zaleski, T.-C. Weng, C. Dendrinou-Samara, M. Alexiou, P. Kanakaraki, J. W. Kampf, J. E. Penner-Hahn, V. L. Pecoraro, D. P. Kessissoglou, ICBIC-12, 12th International Conference on Biological Inorganic Chemistry, July 31-August 5, 2005, Ann Arbor, Michigan, USA.
59. «Oxo-Bridged polynuclear iron(III) complexes with phenylalcanoic acids and neutral N-donors: Structure and bioactivity» C. Dendrinou-Samara, A. Dimitrakopoulou, C. Raptopoulou, A. Terzis, E. Samaras and D. P. Kessissoglou «8th FGIPAS Meeting in Inorganic Chemistry» (European Mediterranean Conference in Inorganic Chemistry), Athens 6-9 July 2005.
60. **Invited Speaker** «Metallacrown chemistry» C. Dendrinou-Samara «8th FGIPAS Meeting in Inorganic Chemistry» (European Mediterranean Conference in Inorganic Chemistry), Athens 6-9 July 2005.
61. «Interaction of 15-MC-5 and 12-MC-4 Manganese Metallacrowns with herbicidal carboxylato complexes.» C. Dendrinou-Samara, E. Samaras, D. Kessissoglou. Metalloenzymes and Chemical Biomimetics. Book of Abstracts P 43, 26-29 May 2005, Rome, Italy.
62. **Invited Speaker** «Inter-conversion of manganese metallacrowns accommodating herbicide ligands» C. Dendrinou-Samara, Metalloenzymes and Chemical Biomimetics. 26-29 May 2005, Rome, Italy.
63. «Oxo-bridged Trinuclear and Tetranuclear Iron(III) Alkanoato Clusters: Structure and Bioactivity» E. Samaras, C. Dendrinou-Samara, S. Katsamakas, C. Raptopoulou, A. Terzis, D. Kessissoglou. Book of Abstracts P61. 2nd Central European Conference :Chemistry towards Biology Seggau, Austria, 2004
64. «Tetranuclear[Mn₃^{II}/Mn^{IV}] and [Mn₂^{II}/Mn₂^{III}] Valence Isomer Models for the Lower S States of Photosystem II.» C. Dendrinou-Samara, T. Dafni, M. Alexiou, J. Kampf, C. Zaleski, T.-C. Weng, J. E. Penner-Hahn, V. L. Pecoraro, D. P. Kessissoglou. Book of Abstracts P43, 2nd Central European Conference :Chemistry towards Biology Seggau, Austria, 2004
65. «Mixed Valence Tri-(Mn₂^{II}/ Mn^{IV}), Tetra-(Mn₃^{II}/Mn^{IV}), Dodeca-(Mn₄^{II}/ Mn₆^{III} /Mn₂^{IV}) and Eicosihexa- Nuclear-(Mn₄^{II}/ Mn₂₂^{III}) Manganese Clusters.» D. P. Kessissoglou V.L. Pecoraro, S. Biswas, C. M. Zaleski, C. Dendrinou-Samara, M. Alexiou, J. Kampf. 35th Great lakes regional meeting of the American Chemical Society Lake Shore Campus Loyola University of Chicago, USA ,31 May-2 June 2003, 98.

66. «Trinuclear mixed -valent ($Mn^{II}/Mn^{IV}/Mn^{II}$) complexes potential models for manganese enzymes.» M. Alexiou, C. Dendrinou-Samara, P. Kanakarak, A. Karagianni, J. Kampf, S. Biswas, V.L. Pecoraro, D. P. Kessissoglou. *3rd International Conference of the Chemical Societies of the South-East European Countries: "Chemistry in the new Millenium-an Endless Frontier", 22-25 September 2002, Romania*, 341.
67. «Mixed Valence Manganese Compounds. Trinuclear (Mn_2^{II}/Mn^{IV}), Tetranuclear (Mn_3^{II}/Mn^{IV}) and Polynuclear (Mn_4^{II}/Mn_{22}^{III}) Clusters.» M. Alexiou, C. Dendrinou-Samara, P. Kanakarak, A. Karagianni, J. Kampf, S. Biswas, V.L. Pecoraro, D. P. Kessissoglou. *Inorganic Chemistry, EuroConference on the Inorganic Side of Molecular Architecture, 31 August-5 September, 2002, San Feliu de Guixols, Spain*.
68. «Guest-host interaction: 12-MC-4, 15-MC-5 and fused 12-MC-4 Metallacrowns hosting neutral or ionic molecules.» D. P. Kessissoglou, C. Dendrinou-Samara, G. Psomas, L. Iordanidis, V. Tangoulis. *6th FGIPS Meeting in Inorganic Chemistry (European Mediterranean Conference in Inorganic Chemistry), Barcelona 2001*, 366.
69. «12-MC-4 and inverse-12-MC-4 Zinc Metallacrowns using salicylhydroxamato and dipyriddyketonoximato ligands: Structure and biological activity.» M. Alexiou, C. Dendrinou-Samara, A. Pantazaki, C. Raptopoulou, A. Terzis, D. A. Kyriakidis, and D. P. Kessissoglou. *6th FGIPS Meeting in Inorganic Chemistry (European Mediterranean Conference in Inorganic Chemistry), Barcelona 2001*, 363.
70. «Lanthanide(III) ions as probe of Calcium (II) substitutes: A structural comparison of Gd and Ca complexes of 2,4-dichlorophenoxyacetic acid.» C. Dendrinou-Samara, D. Drosou, L. Iordanidis, E. Samaras, A. Terzis, and D. P. Kessissoglou. *6th FGIPS Meeting in Inorganic Chemistry (European Mediterranean Conference in Inorganic Chemistry), Barcelona 2001*, 143.
71. «Zinc Metallacrowns.» M. Alexiou, C. Dendrinou-Samara, C. P. Raptopoulou, A. Terzis, D. P. Kessissoglou. *2nd International Conference of the Chemical Societies of the South-East European Countries με Θέμα: "Chemical Sciences for Sustainable Development", 6-9 Ιουνίου, Χαλκιδική, Ελλάς, 2000*, 256.
72. «Biological studies of Ni(II) complexes accommodated or not in twelve membered Ni(II) -Metallacrowns (12-MC-4).» I.T. Tsivikas, A.A. Pantazaki, M. Alexiou, C. Dendrinou-Samara, D.P. Kessissoglou and D.A. Kyriakidis. *2nd International Conference of the Chemical Societies of the South-East European Countries: "Chemical Sciences for Sustainable Development", 6-9 June 2000, Chalkidiki, Greece*, 196.
73. «Fifteen membered Manganese Metallacrowns [15-MC-5] hosting phenoxy alcanoic acids.» G. Psomas, L. Alevizopoulou, C. Dendrinou-Samara, L. Iordanidis, D.P. Kessissoglou. *2nd International Conference of the Chemical Societies of the South-East European Countries "Chemical Sciences for Sustainable Development", 6-9 June 2000, Chalkidiki, Greece*, 270.
74. «Twelve membered Metallacrowns [12-MC-4] with mononuclear and binuclear capping complexes.» C. Dendrinou-Samara, G. Psomas, L. Iordanidis, D. P. Kessissoglou. *2nd International Conference of the Chemical Societies of the South-*

East European Countries "Chemical Sciences for Sustainable Development", 6-9 June 2000, Chalkidiki, Greece, 215.

75. «12-MC-4 and 15-MC-5 Metallacrowns Hosting Herbicide Ligands.» C. Dendrinou-Samara, G. Psomas, J. Bodwin, J. Kampf, L. Iordanidis, V. L. Pecoraro, D. P. Kessissoglou. *5th FGIPS Meeting in Inorganic Chemistry (European Mediterranean Conference in Inorganic Chemistry), Toulouse, France, 1999, p. 4.*
76. «Monomer and Dimer Ni(II) Metallacrowns.» G. Psomas, C. Dendrinou-Samara, M. Alexiou, J. Bodwin, J. Kampf, V. Pecoraro, D.P. Kessissoglou. *5th International Symposium on Applied Bioinorganic Chemistry, Corfu, 1999, Greece, p. 410.*
77. «The first Stacking Metallacrown $\text{Ni}^{\text{II}}_2(\text{mcpa})_2(\text{CH}_3\text{OH})_3(\text{H}_2\text{O})$ [12-MC_{Ni(II)N(shi)2(pko)2}-4] [12-MC_{Ni(II)N(shi)3(pko)-4}].» G. Psomas, C. Dendrinou-Samara, M. Alexiou, A. Tsohos, C.P. Raptopoulou, A. Terzis, D.P. Kessissoglou. *1st International Conference of the Chemical Societies of the South-East European Countries: "Chemical Sciences and Industry", Chalkidiki, Greece, 1998, p. 114.*
78. «Mixed Herbicide/Diamine Copper(II) Complexes». C. Dendrinou-Samara, G. Psomas, C. P. Raptopoulou, A. Terzis, E. Samaras, D. P. Kessissoglou. *1st International Conference of the Chemical Societies of the South-East European Countries με Θέμα: "Chemical Sciences and Industry", Chalkidiki, Greece 1998, p.24.*
79. «Manganese and Nickel Metallacrowns Formed with Salicylhydroxamic Acid Accommodating Carboxylato Containing Antimicrobial Agents». C. Dendrinou-Samara, J. Bodwin, J. Kampf, V. L. Pecoraro, D.P. Kessissoglou. *4th FGIPS Meeting in Inorganic Chemistry (European Mediterranean Conference in Inorganic Chemistry), Corfu, Greece, 1997, p. 56.*
80. «Structure and Bioactivity of Mixed Herbicide-Diamine Copper Complexes.» E. Samaras, G. Psomas, C. Dendrinou-Samara, C.P. Raptopoulou, D.P. Kessissoglou. *4th FGIPS Meeting in Inorganic Chemistry (European Mediterranean Conference in Inorganic Chemistry), Corfu, Greece, 1997, p. 58.*
81. «Cu^{II}-herbicide Complexes: Structure and Bioactivity». G. Psomas, C. Dendrinou-Samara, V. Tangoulis, C.P. Raptopoulou, A. Terzis, E. Samaras & D.P. Kessissoglou. *European Inorganic Chemistry Seminars, EICS-VI : «Biocoordination Chemistry, Inorganic Compounds with Framework Structures», Karrebaeksminde, Denmark, 1996, p.69.*
82. «Structurally diverse of Copper(II) herbicide Complexes: Mono- & Bi-nuclear Neutral or Cationic Complexes» C. Dendrinou-Samara, G. Psomas, V. Tangoulis, C.P. Raptopoulou, A. Terzis & D.P. Kessissoglou. *European Inorganic Chemistry Seminars, EICS-VI: «Biocoordination Chemistry, Inorganic Compounds with Framework Structures», Karrebaeksminde, Denmark, 1996, 43.*
83. «Copper-Herbicides Interaction. Synthesis, Characterisation and Crystal Structure of the bis(methylalcohol)tetrakis(2,3-dichloro-phenoxyacetato) dicopper(II).» C.Dendrinou-Samara, K. Christophorou, C. P. Raptopoulou, V. Tangoulis, A. Terzis, D. P. Kessissoglou. *NATO-ASI on «Bioinorganic Chemistry: An Inorganic Perspective of Life», Rhodes, Greece, 1994, 131-132.*

84. «Solid and Solution Behaviour of Cu(II) Complexes with Antiinflammatory Drugs as Ligands.» C. Dendrinou-Samara, D.P. Kessissoglou, G.E. Manousakis, P.D. Jannakoudakis. *3^d European Inorganic Chemistry Seminar, Il Ciocco, Castelvechio Pascoli, Italy, 1991.*

Social/Scientific activities

- 2nd Experimental High School of Thessaloniki two lectures on "The world of Inorganic Chemist" 2005
- 1st Experimental High School of Thessaloniki lectures and assistance to the students for their participation in European competition ACSTAC on "Nanotechnology", 2011
- Educational TV broadcast on "Phosphorous and Matches" , Update and Experiments, National Channel 3, 2012 <http://www.ert.gr/webtv/component/k2/item/8653-Spirto-20-11-2012#.UK-uzuTtTnj>
- "NANOTECHNOLOGY 2012 EXPO" , 2nd International Conferences & Exhibition on Nanotechnologies & Organic Electronics, C. Dendrinou-Samara (Coordinator), "Inorganic Nanoparticles", June 30 – July 7, 2012, Thessaloniki, GREECE
- TV broadcast on "Smart" Magnetic nanoparticles probes for magnetic Resonance Imaging(MRI)" STAR Chanel, 2013
- "NANOTECHNOLOGY EXPO 2013", 3rd International Conferences & Exhibition on Nanotechnologies & Organic Electronics, "Smart Ferrite Nanoparticles-Potential Candidates for Theranostics", C. Dendrinou-Samara (Coordinator), July 8-12, 2013, Thessaloniki, GREECE
- "NANOTECHNOLOGY EXPO 2013", 3rd International Conferences & Exhibition on Nanotechnologies & Organic Electronics, "Synthesis of Cu-Based Nanoparticles for Antimicrobial Applications", C. Dendrinou-Samara (Coordinator), July 8-12, 2013, Thessaloniki, GREECE