



Christina Anna Mitsopoulou

CURRICULUM VITAE

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<https://scholar.google.com/citations?user=Tiio-rkAAAAJ&hl=en>

Education

- 1980 Diploma: University of Athens, Chemistry Department
1989 PhD: University of Athens, Chemistry Department, «Synthesis and characterization of dithiolene complexes of W and Mo complexes and study of the catalytic and photocatalytic action of the tris- - {1-(4_methoxy)-2-phenyl-1,2-ethylenedithiolen-S,S'}W» (Degree: Distinction).

Research Interests

(i) Design, synthesis, theoretical and experimental study of new compounds; (ii) topics related to photochemistry/photocatalysis/photosensitization; (iii) hydrogen production from renewable resources; (iv) inorganic reactions mechanisms (v) bioinorganic aspects and (vi) computational chemistry.

Academic/Administrative Positions Held

- 5/1981-9/1992 Research Associate, Chemistry Department, NKUA
9/1992-7/1997 Lecturer, Chemistry Department, NKUA.
7/1997-8/2003 Assistant Professor, Chemistry Department, NKUA.
8/2003-8/2009 Associate Professor, Chemistry Department, NKUA.
7/2009-current **Professor, Chemistry Department, NKUA.**
9/1994-6/1995 Visiting Researcher, Chem. Dept, Queen Mary and Westfield College, London Univ.
6/1997-7/1997 Visiting Researcher, Chemistry Department, University of McMaster, Canada.
4/1996-5/1996 Visiting Researcher, Physicochemistry Lab of M. Graetzel, EPFL
7/2002-8/2002 Visiting Researcher, PNNL, Palo Alto, California, USA
2002-2017 Hellenic Open University, Teaching Professor in Physical Sciences
2009-2011 Director of Section III, Chemistry Department, NKUA
2010-current **Director of Inorganic Laboratory, Chemistry Department, NKUA**
2009-2011 Director of MSc in 'Catalysis & its Applications' Chemistry Department NKUA
2010-current Director of MSc in 'Inorganic Chemistry & Inorganic Technology' Chemistry Department NKUA
2016-current Director of MSc in 'Inorganic Chemistry & Its Application in Industry'' Chemistry Department NKUA
2016-current Member of the Special Administrative Committee of the International MSc "Biological Inorganic Chemistry"
2012-2017 Head of the Supreme Chemical Council of the State
2017-2019 **Chairman of Chemistry Department, NKUA.**

Teaching

Undergraduate courses

General and Inorganic Chemistry I, Inorganic Chemistry II, Inorganic Chemistry III, Special Topics in Spectroscopy (2D-NMR), Materials, Photochemistry

Postgraduate courses

Catalysis, Homogeneous Photocatalysis, Spectroscopic Methods in Structure Analysis, Energy:Renewable Resources and Hydrogen, Computer Science and New Technologies

Participation in International Conference Committees / Organisation of Intern. Conferences

1. Organizing Committee in the 8th FIGIPAS Meeting in Inorganic Chemistry, 6-9 July, **2005**, Greece.
2. Organizing and Scientific Committee in the 3^o National Conference of Hydrogen Technologies, Patra, 19-20 November **2007**.
3. Organizing and Scientific Committee in the 2^o National Conference of Green Chemistry & Development', Patra, 19-20 November **2007**.
4. Scientific Committee in BioFuels, Athens, September, **2006**
5. Chair of the *Inorganic Reactions Mechanisms Meeting 2003 – IRMM03*, Athens 8-10 January **2004**
6. Head of the 'Hyapproval Seminar: Rules and Safety for Hydrogen Refueling Stations', Athens, 17/12/2008, Greece.

- Head of the Organizing Committee in the COST D35 4th -International Workshop ‘Dithiolenes and non-innocent redox-active ligands’ June 17-19, **2009**, Vravra, Attica
- Chair of the *D35-ESF-Dyna Conference ‘Electronic Excited States in Condensed Phases’* Santa Tecla palace, Acireale, Italy, 18-22 June, **2008**
- IC BIOSOL 2011, September 12-17, **2011**, Crete, Greece (Advisory Board)
- COST-PERSPECT H2O Meeting ‘Synthesis of novel ligands for supramolecular photocatalytic active assemblies, Athens 15 – 17 April **2015**. (Chairman)
- Vice Chairman Athens International Catalysis Symposium **2016**, Athens 3-4 November 2016

Referee/Editorial board in international journals (Selected)

Inorganic Chemistry, Dalton Transactions, Coordination Chemistry Reviews, Journal of European Inorganic Chemistry, Angewandte Chemie, Journal of Photochemistry and Photobiology A: Chemistry, Journal of Inorganic Biochemistry, Journal of Physics and Chemistry of Solids, Physical Chemistry Chemical Physics, Vibrational Spectroscopy, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, International Journal of Physical Sciences (IJPS), ChemPhysChem, Collection of Czechoslovak Chemical Communications, Bioinorganic Chemistry and Applications, Central European Journal of Chemistry.

Editorial board (Editor –Theoretical and Computational Chemistry)

Open Chemistry (ex-Central European Journal of Chemistry), De Gruyter / Springer Verlag

Textbooks and special volumes Editor

- "Basic Inorganic Chemistry" (Stamoulis ed., Athens, 2006, in Greek, 2 co-authors)
- "Inorganic Chemistry A: Elementary Principles" (Stamoulis ed., Athens, 2005, in Greek,)
- "Inorganic Chemistry B: The elements" (Papazisis, ed., Athens, 2002, in Greek, 3 co-authors)
- "Experiments in General and Inorganic Chemistry" (Stamoulis ed., 2005, in Greek, 6 co-authors)
- "Hydrogen and Renewable Energy" (Athens, 2007, in Greek).

Research monographs

- ‘Topical Issue on Catalysis’ Open Chemistry, De Gruyter, **2016**
- ‘Hydrogen and Renewable Energy’ (Athens, 2007)

Invited Talks in International Conferences

- The first example of a metal complex having mono-coordinated 2-(2'-pyridyl)quinoxaline ligand and its route towards chelation’, I, Veroni, F.J.Lahoz, **C.A. Mitsopoulou**, 8th FIGIPAS Meeting in Inorganic Chemistry, **2005**.
- ‘A Joint Experimental DFT and TD-DFT Study of Photosensitized Mixed Diimine-Dithiolate Complexes of Pt’, **C. A. Mitsopoulou**, C. Makedonas, E. Stathatos, P. Lainos, *D35-ESF-Dyna Conference ‘Electronic Excited States in Condensed Phases’* Santa Tecla palace, Acireale, Italy, **2008**.
- Mixed dithiolate-diimine complexes as photosensitizers: an experimental and theoretical approach’ **C.A. Mitsopoulou**, COST D35 Workshop ‘Dithiolenes and non-innocent redox-active ligands’ **2009**
- ‘Combining Photosensitizers: Synthesis, Characterization and DFT study of the novel compounds $\text{Re}(\text{CO})_3\text{Cl}(\text{bipym})\text{PtCl}_2$ and $\text{Re}(\text{CO})_3\text{Cl}(\text{bipym})\text{Pt}(\text{bdt})$. C.Makedonas, C. Koumpounis and C.A. Mitsopoulou, COSTD35 Workshop ‘Dithiolenes and non-innocent redox-active ligands’, **2009**, Vravra.
- ‘A new perspective on solar energy conversion and water photosplitting by dithiolene complexes’ C.A. Mitsopoulou, E. Koutsouri, Solar Fuels: Light Capture and Electron Flow, US-Europe Meeting, Prague, May 2011 ‘*Alkylated nickel dithiolene complexes as catalysts in hydrogen evolution reaction*’ C. A. Mitsopoulou, A. Zarkadoulas, E. Koutsouri, T. R. Simmons, V. Artero, 6th EuCheMs **2016**, 11-19 September, Seville, Spain
- Homogeneous proton reduction with nickel bis-dithiolene complexes as electrocatalysts, C. A. Mitsopoulou, **ICCC-41**, Singapore 21-25 July **2014**
- Nickel-dithiolene complexes for photocatalytic hydrogen production from protons reduction, **C. A. Mitsopoulou**, E. Koutsouri, C. Kefalidi, A. Zarkadoulas, S. Efstathiadou, **ICCC-41**, Singapore, 21-25 July **2014**
- “*Anti-tumor, Anti-inflammatory and Anti-coagulant Effects of Re and Cu complexes*”, **C.A. Mitsopoulou**, Z. Patinioti, M. Kaplanis, A. Tsoupras, G. Stamatakis, K. Demopoulos, M. Paravatou, **40th ICCC**, Valencia, Spain, 19-23 September **2012**.

Invited Chapters

- ‘Identifying of charge-transfer transitions and reactive centers in M(diimine)(dithiolate) Complexes by DFT techniques.’ **C.A. Mitsopoulou**, *Coord. Chem. Rev.*, 254 (2010) **1448-1456**.

2. 'Synthesis, Characterization, DNA binding, and Photocleavage Activity of Oxorhenium(V) Complexes with alpha Diimine and Quinoxaline Ligands' **C. A. Mitsopoulou**, A. Dagas, *Bioinorg. Chem. & Appl.* (2010), Artcl. Num.: **973742** DOI: **10.1155/2010/973742**
3. 'A new perspective on solar energy conversion and water photosplitting by dithiolene complexes' **C.A. Mitsopoulou**, *Coord. Chem. Rev.*, 266 (2012).

Patents

1. 'A method of production of copper compounds with target antitumor and antimicrobial properties' (OBI 201800593)
2. 'A method of synthesis of functional nickel compounds that act as photocatalysts for the production of hydrogen.' (OBI 201801068)

Prizes/ Awards/ Academy memberships

1. 1976-1980, State Scholarship Foundation of Greece
2. Award for the best paper of NKUA (5274/12/11/1999) for the paper: '3-D Delocalisation in tris-1,2-dithiolenes.', *J.Chem. Soc. Dalton Trans*, **1997**, (4), 615.
3. 1st Award in 4th FGIPS Meeting in Inorganic Chemistry October 14-18, **1997**, Corfu, Greece for the presentation "Synthesis and multinuclear (¹H, ¹³C, ³¹P, ¹⁸³W) NMR characterisation of asymmetric mixed ligand bis-dithiolene tungsten dicarbonyl and diphosphine complexes".
4. Member of the Society of Biological Inorganic Chemistry
5. Member of the MC of Actions Cost D35, CM1202, CA15135.
6. Member of the Advisory Committee of HYPER

List of funded projects as Coordinator and Partner

1. G.S.R.T.(1998) E.P.E.T.II." Development of Hydrogen Technologies in Greece"
2. KAPODISTRIAS Synthesis, characterization and application of mixed metal dithiolene complexes, 2001-2011, (P.I)
3. PENED: Development of a theoretical and experimental model for monitoring the DNA bases" sequence and its role in drugs diagnostic ability, 2002-2004, G.S.R.T., Principal Investigator/leader of the project, (P.I),
4. IKYDA: (Max Plank, Prof F. Neese, Bonn Univ), 2006-2007, (P.I)
5. PYTHAGORAS I: Determination of a structure to properties relationship for di-dithiosubstituted complexes. Synthesis of compounds with pre-required properties in catalysis and photocatalysis, 2004-2007, EPEAEK, (P.I)
6. HERAKLEITOS I Photoinduced oxidation of oligonucleosides (DNA) induced by a-diimine-complexes of Re and Mo, 2004-2007, EPEAEK, (P.I)
7. HERAKLEITOS II, 2010-2013, Coordination compounds as probes in DNA and molecular switches., ESPA, (P.I)
8. COST D35-WG11:2006- 2011. "Multifunctional and Switchable Molecular Materials: Design, Synthesis, Characterization and Preparations as crystals and Thin Films (Management Comittee Member and Member of a working group 11 (Leader of NKUA)
9. THALIS 2010-2013. Polynuclear Transition Metal Complexes: Development of Synthetic Strategies, Reactivity and Applications in Magnetic and Catalytic Materials (Coordinator S. P. Perlepes, University of Patras); G. S.R.T. (Member of NKUA)
10. COST CM1202, 2012-2017 - PERSPECT-H2O - Supramolecular *photocatalytic water splitting* (Member of MC and Financial Rapporteur, Member of WG, 2 4)
- 11.COST CA 15135: 2016-2020 Multi-target paradigm for innovative ligand identification in the drug discovery process (MuTaLig)(member of MC and WP 1 & 3)
- 12.S.A.R.G.: *Research and Education of Chemistry Dept, NKUA(P.I.)*

Research Grant Reviewing

I have act as an evaluator in a numerous of research funding projects, for FP7 (NMP), Horizon2020 (WP2016 RIA, Leit, NMBP-25-2017), Bulgarian National Sciences, COST Actions, General Secretariat of Research and Development (Greece), Research Promotion Foundation (Cyprus), State Scholarship Foundation (IKY). Ministry of Education, etc.

Additional Information

- Publications in referred Journals and special volumes (by invitation): **68**, Presentations in Conferences: **143**
- Number of Citations: **~1250**, **h-index** **22**
- PhD Thesis supervision: **11** MSc. Thesis supervision: **>50** BSc Thesis supervision: **>65**

- Referee for Journals: **65**
- Scientist in Charge in **20** Research Projects, Participation in **12** research Projects and in **3** infrastructure Projects,
Referee for Research Projects: **29**
- Head of the 'Hellenic Hydrogen association' 2004-current.

Selected Papers

1. "A Tungsten Dithiolene as Catalyst and Photocatalyst." E.Vrachnou, **C.Mitsopoulou**, D.Katakis and J.Konstantatos. *Photoconversion Processes for Energy and Chemicals: Energy from Biomass*. (D.O.Hall and G.Grassi Ed.) Elsevier Applied Science, Vol. **5**, (1989) 1098-115.
2. "Dithiolenes: A cheap alternative to platinum for catalytic dihydrogen formation. The case of tris-[1-(4-methoxyphenyl)-2 phenyl-1,2 ethylenedithiolenic-S,S']tungsten." **C.Mitsopoulou**, J.Konstantatos, D.Katakis, E.Vrachnou. *Journal of Molecular Catalysis*. 67 (1991) 137-146.
3. "Photocatalytic splitting of water", D. Katakis, **C. Mitsopoulou**, J. Konstantatos, E. Vrachnou, P. Falaras, *J. Photoch. Photobiol. A: Chem.*, 68 (1992) 375-388,.
4. "Photocatalytic splitting of water: Increase of conversion and/ or energy storage efficiency.", D. Katakis, **C. Mitsopoulou**, E. Vrachnou, *J. Photoch. Photobiol. A: Chem.*, 81 (1994) 103-106.
5. "Molecular Dynamics of Pentamethylbenzenechromium-tricarbonyl: a ¹³C Solid-State NMR study", P. Barrie, **C. Mitsopoulou**, E. Randall, *J. Chem. Soc. Dalton Trans.*, (1995) 2125-2128.
6. " Synthesis, Cyclic voltammetric and Electro spray Mass Spectrometric studies of tris-substituted 1,2 dithiolene complexes of tungsten and molybdenum" P.Falaras, **C.Mitsopoulou**, D. Argyropoulos, E. Lyris, E. Vrachnou, D.Katakis, N.Psaroudakis, *Inorg. Chem.*, 34, (1995) 4536-4542.
7. "NMR of Compounds Containing -NH₂, -NO₂ and NO groups." , E.W.Randall, **C.A. Mitsopoulou**, in "Supplement F₂: The Chemistry of Amino, Nitroso, Nitro and Related Compounds." Ed. S.Patai, John Wiley and Sons, New York, (1996), Chapter 7, pp 295-337.
8. "Second-order Paramagnetic Re(III) Complexes: Solid State Structure, Assignment of the ¹³C Magnetic resonance Spectra in Solution, and Partial Orientation in High Magnetic Fields" **C.A.Mitsopoulou**, N.Mahieu, M.Motevalli, E.W.Randall, *J.Chem.Soc. Dalton Trans.*, (1996) 4563-4566.
9. "Stereochemical Non-Rigidity and Geometrical Isomerism in six coordinate Trigonal Prismatic Complexes. The case of asymmetric Molybdenum and Tungsten tris- dithiolenes" D. Argyropoulos, **C.A. Mitsopoulou** and D. Katakis, *Inorg. Chem.*, 35 (1996), 5549-5554
10. "New Catalysts in the photooxidation of water." E. Lyris, D.Argyropoulos, **C. Mitsopoulou**, D. Katakis and E.Vrachnou, *J. Photochem. Photobiol. A: Chem.*, 108 (1997) 51-54.
11. "Molecular Dynamics of tricarbonyl (n⁶-arene)chromium Complexes in Solid State: ¹³C Solid-State NMR Studies and X-ray Crystal Structure of (n⁶-C₆HMe₅)Cr(CO)₃." P.J.Barrie, **C.A.Mitsopoulou**, M. Motevalli and E.W.Randall, *J.Chem.Soc. Dalton Trans.*, (1997) 353-358.
12. "3-D Delocalisation in tris-1,2-dithiolenes." D. Argyropoulos, E. Lyris, **C.A. Mitsopoulou*** και D. Katakis*, *J.Chem. Soc. Dalton Trans.*, (1997) (4), 615-621.
13. "Photochemische Wasserspaltung bei Einstrahlung von Photonen des sichtbaren Bereiches" **C.A. Mitsopoulou** and D. Katakis, in "Photochemie-Konzepte, Methoden, Experimente" ed. D. Wöhrle, Wiley-VCH, 1998, Chapter 8, p.p. 422-426.
14. "Photophysical study of the decomposition of water using visible light and tungsten tris(dithiolenes) as photosensitizers-catalysts" R. Humphry-Baker, **C.A. Mitsopoulou**, D.Katakis, and E. Vrachnou, *J. Photochem. Photobiol. A: Chem.*, 114 (1998) 137-144.
15. "Solvation and catalyst-substrate superstructure of a tungsten tri(dithiolene) complex dissolved in water-acetone. A molecular dynamic model calculation." J. Samios, D. Katakis, D. Dellis, E. Lyris, and **C.A. Mitsopoulou**, *J. Chem. Soc., Faraday Trans.*, 94 (1998) 3169-3175.
16. "On the mechanism of action of thiamin enzymes, crystal structure of 2-(α-hydroxyethyl)thiamin pyrophosphate (HETPP). Complexes of HETPP with zinc (II) and cadmium (II)." G.Malandrinos, M.Louloudi, **C.A. Mitsopoulou**, I.S. Butler, R. Bau and N. Hadjiliadis, *JBIC*, 3 (1998) 437-448.)
17. "Mixed ligand Ru(II) complexes with 2,2'-bipyridine and 2-(2'-pyridyl)quinoxaline." A. Garoufis, A.Koutsodimou, N.Katsaros, **C.A. Mitsopoulou**, and N. Hadjiliadis, *Polyhedron*, 18 (1998) 361-369.
18. "Metal complexes of the Schiff base ligand L=1,2-bis(2'-pyridylmethyleneimino)benzene with Ni²⁺, Fe²⁺, and Cu²⁺, and their reactions with bridged bidentate ligands. The crystal structure of the complex [NiL(H₂O)₂]Cl₂" A. Garoufis, S. Kasselouri, **C.A. Mitsopoulou**, J.Sletten, C.Papadimitriou and N. Hadjiliadis, *Polyhedron*, 18 (1999) 39-47.
19. "Separation of biologically active lipids from red wine". E.Fragopoulou, T.Nomikos, S.Antonopoulou, **C.A.Mitsopoulou**, C.A.Demopoulos. *J. Agric. Food Chem.*, 48 (2000) 1234.

20. "An investigation of the reaction of Cu (II) ions with tris(4-methoxy)-and tris-(4-dimethylamino)-2-diphenyl-dithiolato-S,S') tungsten (VI) complexes" **C.A.Mitsopoulou**, E.Lyris, S.Veltsos, D.Katakis, *Inorg. Reaction Mechan.*,3 (2001) 99-106.
21. "Synthesis and characterization of mixed diimine-dithiolate ligand complexes and theoretical investigation of the π^* -accepting role of the diimine ligand", C.Makedonas, **C.A. Mitsopoulou***, *J. Inorg. Biochem.* 86 (2001) 326.
22. "Synthesis of mixed 2-(2'-pyridyl)quinoxaline-dithiolene ligand complexes of Re and Mo and their characterization" **C.A. Mitsopoulou***, I.Veroni, C.Dagas *J. Inorg. Biochem.* 86 (2001) 341.
23. "Hydrogen from water: Photocatalytic splitting of water with visible light." Autrey T., Xantheas SS, Li LY, Linehan JC, Franz JA, Katakis D, **Mitsopoulou C**, Sofianos Z, Bitterwolf TE, Abstracts of papers of Am.Chem. Soc. 224: 141-FUEL Part 1 AUG 18, 2002.
24. "Synthesis and characterization of a novel complex Mo (CO)₄(2,2-pyridyl-quinoxaline). An insight based on experimental and theoretical data" E.Veroni, A, Rontoyiani and **C.A. Mitsopoulou***, *Dalton Trans*, (2) (2003) 255-260.
25. "Synthesis, Characterization, and Crystal Structure of the Pd(phen)(bdt) Complex. A DFT and TDDFT Study of its Ground Electronic and Excited States Compared to those of Analogous Complexes ", C. Makedonas, **C.A. Mitsopoulou***, F.J. Lahoz, A.Balana, *Inorg. Chem.* 42 (26), (2003) 8853-8865.
26. "An Experimental and DFT Computational Study of a Novel Zerovalent tetracarbonyl Tungsten Complex of 2-(2'-pyridyl)quinoxaline", I. Veroni , C. Makedonas, A. Rontoyianni, **C.A. Mitsopoulou***, *J. Organomet. Chem.*, 691 (3), (2006) 267-281.
27. "An Investigation of the Reactivity of [(diimine)(dithiolato)M] Complexes using the Fukui Functions Concept", C. Makedonas, **C.A. Mitsopoulou***, *Eur. J. Inorg. Chem* (3) (2006) 590-598.
28. "A Vibrational and DFT Study of M(diimine)(dithiolate) Complexes and their Complexation Route", Spectrochim. Acta A, C. Makedonas, **C.A. Mitsopoulou*** 64 (4) (2006) 918-930.
29. "The Relationship between Aromaticity and Charge-Transfer Transitions: A Combined Study of Square-planar Metal Complexes based on DFT, NMR and Nucleus-independent Chemical Shifts", C. Makedonas, **C.A. Mitsopoulou***, *Eur J. Inorg. Chem.* (12), (2006) 2460-2468.
30. "Isolation, X-ray Structure and Properties of an Unusual Pentacarbonyl(2,2'-pyridyl-quinoxaline) Tungsten complex ", I. Veroni, **C.A. Mitsopoulou***, F.J.Lahoz, *J. Organomet. Chem*, 691 (26), (2006) 5955-5963.
31. "Pentacarbonyl[2-(2'-pyridyl)quinoxaline-kappa N-4]Tungsten: A Combined Study of its Conformational and Electronic Structure based on Experimental and DFT-TDDFT Data", C. Makedonas, I. Veroni, **C.A. Mitsopoulou***, *Eur. J. Inorg. Chem.* (1), (2007) 120-131.
32. "W(CO)₄(diimine) structure revised -Correlating structure to π^* back-bonding", *Eur. J. Inorg. Chem*, C. Makedonas, **C.A. Mitsopoulou***, (1), (2007) 110-119
33. "Synthesis, Characterization and Sensitization Properties of two Novel Mono and bis carboxyl-dipyridophenazine Ruthenium(II) Charge Transfer Complexes", **C.A. Mitsopoulou***, I. Veroni, A.I. Phillipopoulos, P. Falaras, *J. Photoch. Photob. A. Chem.*, 191 (2007) 6-12
34. "An experimental and theoretical study on DNA binding of mixed platinum(II) complexes'. **C.-A. Mitsopoulou** and C. Makedonas, *J. Biol. Inorg. Chem.* (2007), 12
35. "Interaction and photocleavage of DNA and oligonucleosides by oxorhenium (V) complexes with a-diimine and quinoxaline ligands' **C.A. Mitsopoulou** K. Dagas *J. Biol. Inorg. Chem.* (2007), 30.
36. "Introduction of Modified Electronic Parameters - Searching for a Unified Ligand Properties Scale through the Electrophilicity Index Concept' *Eur. J. Inorg.Chem.*, C. Makedonas, **C. A. Mitsopoulou*** (26) (2007) 4176-4189.
37. "Tuning the properties of M(diimine)(dithiolate) complexes – The role of the metal and solvent effect. A combined experimental, DFT and TDDFT study' C. Makedonas and **C.A. Mitsopoulou***, *Inorg. Chim.Acta*, 360 (2007) 3997-4009.
38. "Characterization and DNA interaction of the Pt(II) (pq)(bdt) complex. A theoretical and experimental research." has been accepted for publication in *Inorganica Chimica Acta*, **C.A. Mitsopoulou***, C. Dagas, C. Makedonas, *Inorg. Chim. Acta*, 361 (2008) 1973-1982.
39. "Synthesis, structural and DFT studies of a peroxo-niobate complex of the biological ligand 2-quinaldic acid' A. Maniatiakou, C. Makedonas, **C.A. Mitsopoulou**, C. Raptopoulou, I. Rizopoulou, A. Terzis, A. Karaliota, *Polyhedron* 27 (2008) 3398-3408.
40. "Synthesis, spectroscopic properties and crystal structure of mononuclear tricarbonylrhenium(I) chloride complexes carrying 6-functionalised quinoxalines" I. Veroni, **C.A. Mitsopoulou**, F.J.Lahoz, *J. Organomet. Chem.*, 693 (2008), 2451-2457.

41. 'Synthesis, characterization, DFT studies and DNA binding of mixed platinum (II) complexes containing quinoxaline and 1,2-dithiolate ligands, **C. A. Mitsopoulou***, C. E. Dagas, C. Makedonas, *J. Inorg. Biochemistry*, 102 (2008) 77-86.
42. 'Identifying of charge- transfer transitions and reactive centers in M(diimine)(dithiolate) Complexes by DFT techniques.' **C.A. Mitsopoulou**, *Coord. Chem. Rev.*, 2010, 254 (13), 1448-1456.
43. 'Isolation, Characterization and Computational Studies of the Novel $(M_3(\mu_3-Br)_2(\mu-Br)_3Br_6)^{2-}$ Cluster Anion", Paraskevopoulou, P.; Makedonas, C.; Psaroudakis, N.; **Mitsopoulou, C.A.**; Floros, G.; Seressioti, A.; Ioannou, M.; Sanakis, Y.; Rath, N.; Gomez-Garcia, C.; Stavropoulos, P.; Mertis, K *Inorg. Chem.* 2010, 49 (5), 2068-2076.
44. 'Combined Experimental and Theoretical Study on Redox-Active d^8 Metal Dithione-Dithiolato Complexes Showing Molecular Second-order Non-linear Optical Activity' L. Pilia, D. Espa, A. Barsella,^b A. Fort, C. Makedonas, L. Marchiò, M.L. Mercuri, Angela Serpe, **C.A. Mitsopoulou**,* P. Deplano. *Inorg. Chem.*, 2011, 50 (20), 10015-10027
45. 'Identifying of charge- transfer transitions and reactive centers in M(diimine)(dithiolate) Complexes by DFT techniques.' **C.A. Mitsopoulou**, *Coord. Chem. Rev.*, 254 (2010) 1448-1456.
46. 'Synthesis, Characterization, DNA binding, and Photocleavage Activity of Oxorhenium(V) Complexes with alpha Diimine and Quinoxaline Ligands' **C. A. Mitsopoulou**, A. Dagas, *Bioinorg. Chem. & Appl.*, (2010), Artcl. Num.: 973742
47. 'Combined experimental and Theoretical Study on Redox Active d^8 Metal Dithione-Dithiolato Complexes Showing Molecular Second Order Nonlinear Optical Activity', L. Pilia, D. Espa, A. Barsella, A. Fort, C. Makedonas, L. Marchiò, M. L. Mercuri, A. Serpe, **C. A. Mitsopoulou***, and P. Deplano* *Inorg. Chem.*, 2011, 50 (20), pp 10015–10027
48. 'A perspective on solar energy conversion and water photosplitting by dithiolene complexes' A. Zarkadoulas, E. Koutsouri, **C.A. Mitsopoulou**, *Coord. Chem. Rev.* (2012), 256, 2424-2434. *Coord. Chem. Rev.* 256 "Solar Fuels", 2424 (by invitation).
49. 'Combining photosensitizers: The case of $[Cl_2Pt(bpym)Re(CO)_3Cl]$ and its dithiolate analogs' *Polyhedron*, E. Koutsouri, A. Zarkadoulas, C. Makedonas, C. Koumbounis, P. Paraskevopoulou, **C. A. Mitsopoulou**, *Polyhedron*, 52, (2013), 234-245 Alfred Werner Special Issue 2013 (by invitation).
50. 'Role of the acceptor in tuning the Properties of Metal $[M(II)=Ni, Pd, Pt]$ Dithiolato/Dithione (Donor/Acceptor) Second-Order Nonlinear Chromophores: Combined Experimental and theoretical Studies" D. Espa, L. Pilia, C. Makedonas, L. Marchiò, M. L. Mercuri, A. Serpe, A. Barsella, A. Fort, **C. A. Mitsopoulou***, P. Deplano* *Inorg. Chem.*, 2014, 53 (2), pp 1170–1183
51. 'Re(I) tricarbonyl complex of 1,10-phenanthroline-5,6-dione: DNA binding, cytotoxicity, anti-inflammatory and anti-coagulant effects towards Platelet Activating Factor, M. Kaplanis, G. Stamatakis, V D. Papakonstantinou, M. Paravatou-Petsotas, C. A. Demopoulos, **C. A. Mitsopoulou**, *J. Biol. Inorg. Chem.* (2014), 135, 1-9
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