

Personal Information

Name : Evangelos
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Education and Training

1990-1996 Diploma in Chemistry, Chemistry Department, Aristotle University of Thessaloniki, Greece

1996-2001 PhD Chemistry Department, Ioannina University PhD Thesis title: "Studies of vanadium compounds with amidate ligands: Effect of the axial ligands to the EPR parameters of the oxovanadium(IV) compounds"

05/2002-09/2002 Post doctoral fellow at the Laboratory of Inorganic Chemistry of the University of Ioannina working at the research program "Synthesis and physicochemical characterization of vanadium compounds of oxidative state (II) and (III) with possible catalytic effects on alkenes polymerization. (Project Leader: Associate Professor Themistoklis Kabanos

10/2002-10/2003 Research Associate at the University of Manchester (U.K.) Chemistry Department under the Supervisor of Professor

Richard E. Winpenny : “Synthesis and magnetic properties of molecular and polymeric materials”.

04/2004-03/2005 Research Associate at National Hellenic Research Foundation, in the Institute of Organic and Pharmaceutical Chemistry Laboratory of Organic and Organometallic Chemistry, working at “Transition metals complex compounds with application to the homogeneous aqueous phase catalysis”. (Supervisor: Dr. Ioannis D. Kostas, Research Director)

Employment Record

06/2009-Today: Work for the Department of Mechanical Engineering, University of Western Macedonia (UOWM) at Environmental Technology Laboratory as a laboratory and teaching staff

06/2006-06/2009: Research Associate at the Environmental Technology Laboratory, University of West Macedonia, Department of Mechanical Engineering (Supervisor: Prof. John G. Bartzis).

Participate in several projects as a research scientist some of them are/were:

- University of Western Macedonia: Prioritization of Building Materials as Indoor Pollution Sources “BUMA project”
- University of Western Macedonia «Common Mediterranean strategy and local Actions for the mitigation of Port, Industries and Cities Emissions» (APICE)

2004-2012: Technological Educational Institute of Western Macedonia undergraduate courses

- i) “Chemical Technology”
- ii) “Laboratory of Chemistry”

Additional Information

Diploma of “FIRT CERTIFICATE IN ENGLISH/ UNIVERSITY OF CAMBRIDGE”

1. Referee at the following International Journals:
 - “Science of the Total Environment”
 - “Central European Journal of Chemistry”
 - “Journal of the Air & Waste Management Association”
 - “Atmospheric Environment”
 - “Environmental Earth Sciences”
 - “Environmental Science and Pollution Research”
2. Member of MESAEP- Mediterranean Scientific Association of Environmental Protection.
3. Member of the COST proposal: “Impact of indoor climate on public health” (**proposal reference oc-2013-1-15175 for a COST new Action**)
4. Member of the Geek Chemistry Society.

List of Publications

1. Model Investigations of Vanadium – Protein Interactions: Novel Vanadium (III) and Oxovanadium(IV) Compounds with the Diamidate Ligand 1,2-Bis(2-pyridinecarboxamide)benzene (H₂bpb).

Antonis T. Vlahos, **Evangelos J. Tolis**, Catherine P. Raptopoulou, Alexandros Tsohos, Michael P. Sigalas, Aris Terzis and Themistoklis A. Kabanos.
INORGANIC CHEMISTRY, **2000**, 39, 2977-2985.

2. Structural, electron paramagnetic resonance and electron spin echo envelope modulation studies of oxovanadium(IV) – amidate compounds containing monoanionic axial ligands: effect on the ⁵¹V – hyperfine coupling constants.

Evangelos J. Tolis, Kalliopi D. Soulti, Catherine P. Raptopoulou, Aris Terzis, Yiannis Deligiannakis and Themistoklis A. Kabanos.
CHEMICAL COMMUNICATIONS, **2000**, 601-602.

3. The Effect of Charged Axial Ligands on the EPR Parameters in Oxovanadium(IV) Compounds: An Unusual Reduction of the A_z (⁵¹V) Values.

Evangelos J. Tolis, Vasilis I. Teberekidis, Catherine P. Raptopoulou, Aris Terzis, Michael P. Sigalas, Yiannis Deligiannakis and Themistoklis A. Kabanos.

CHEMISTRY-A EUROPEAN JOURNAL, **2001**, 7, 2698-2710.

4. Model investigations for vanadium-protein interactions: vanadium (III) compounds with dipeptides and their oxovanadium (IV) analogues.

Anastasios J. Tasiopoulos, **Evangelos J. Tolis**, John M. Tsanangaris, Angelos Evangelou, J. Derek Woolins, Alexandra, M. Z. Slawin, Joao Costa Pessoa, Isabel Correia, Themistoklis A. Kabanos,

JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY, **2002**, 7, 363-374

5. Monomeric Compounds Containing the *cis*-[V(=O)(OH)]⁺ core.

Evangelos J. Tolis, Manolis J. Manos, Anastasios J. Tasiopoulos, Catherine P. Raptopoulou, Aris Terzis, Michael P. Sigalas, Yiannis Deligiannakis, and Themistoklis A. Kabanos

ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, **2002**, 41, 2797-2801.

6. *p*-Hydroquinone–Metal Compounds: Synthesis and Crystal Structure of two Novel V^V-*p*-Hydroquinonate and V^{IV}-*p*-Semiquinonate Species.

Chryssoula Drouza, **Vagelis Tolis**, Volker Gramlich, , Cathrine Raptopoulou, Aris Terzis, Michael P. Sigalas, Anastasios D. Keramidas and Themistoklis A. Kabanos.

CHEMICAL COMMUNICATIONS, **2002**, (23): 2786-2787.

7. A New Class of Ferromagnetically-Coupled Mixed Valence Vanadium(IV/V) Polyoxometalates.

Manolis J. Manos, Anastasios J. Tasiopoulos, **Evangelos J. Tolis**, Nicolía Lalíoti, Alexandra M. Slawin, J Derek Woollins, Michael P. Sigalas, Vassilis Tangoulis, and Themistoklis A. Kabanos.

CHEMISTRY-A EUROPEAN JOURNAL, **2003**, 9, 695-703

8. Mimicking the oxidized glutathione-V^{IV}O²⁺ species.

Evangelos J. Tolis, Manolis J. Manos, Aris Terzis, Catherine P. Raptopoulou, and Themistoklis A. Kabanos.

DALTON TRANSACTIONS, **2003**, (5), 775-777

9. NMR and Theoretical Investigations on the structures and Dynamics of Octahedral Bis(Chelate)DichloroV^{III} Compounds Isolated by an Unusual Reduction of Non-Oxo V^{IV} Species.

Maria Rikkou, Manolis J. Manos, **Evangelos J. Tolis**, Michael P. Sigalas, Anastasios D. Keramidis and Themistoklis A. Kabanos.

INORGANIC CHEMISTRY, **2003**, 42, 4640-4649.

10. Synthesis and Characterization of Iron (III) Phosphonate Cage Complexes.

Evangelos I. Tolis, Madeleine Helliwell, Stuart Langley, James Raftery, and Richard E. P. Winpenny.

ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, **2003**, 42, 3804-3808.

11. Interactions of oxovanadium (IV) and the quinolone family member-ciprofloxacin.

Iztok Turel, Amalijia Golobic, Ales Klavzar, Boris Pihlar, Peter Buglyo, **Evangelos Tolis**, Dieter Rehder, Kristina Sepcic.

JOURNAL OF INORGANIC BIOCHEMISTRY, **2003**, 95, 199-207.

12. Monomeric Oxovanadium (IV) Compounds of the General Formula cis-[V^{IV}(=O)(X)(L_{NN})₂]⁺⁰ {X=OH⁻, Cl⁻, SO₄²⁻ and L_{NN}=2,2'-bipyridine (bipy) or 4,4'-di-substituted bipy}.

Georgios D. Triantafillou, **Evangelos J. Tolis**, Yiannis Deligiannakis, Catherine P. Raptopoulou, Michael P. Sigalas, and Themistoklis A. Kabanos

INORGANIC CHEMISTRY, **2004**, 43, 79-91.

13. Phosphonate ligands encourage a Platonic relationship between cobalt(II) and alkali metal ions.

Stuart Langley, Madeleine Helliwell, James Raftery, **Evangelos I. Tolis**, and Richard E. P. Winpenny.

CHEMICAL COMMUNICATIONS, **2004**, 142-143.

14. ESE-ENDOR Study and DFT Calculations On Oxovanadium Compounds: Effect of Axial Anionic Ligands on the ⁵¹V Nuclear Quadrupolar Coupling Constant.

C. P. Aznar, Y. Deligiannakis, **E. J. Tolis**, T. Kabanos, M. Brynda and R. D. Britt.
J. Phys. Chem. A **2004**, *108*, 4310-4321.

15. A new rhodium complex with a nitrogen-containing bis(phosphine oxide) ligand as an efficient catalyst for the hydroformylation of styrene.

E.I. Tolis, K.A. Vallianatou, F.J. Andreadaki, I.D. Kostas.
APPL. ORGANOMET. CHEM. **2006**, *20(5)*, 335-337.

16. Studies of an Fe₉ Tridiminised Icosahedron.

Evangelos I. Tolis, , Larry P. Engelhardt, Pamela V. Mason, Gopalan Rajaraman, Koichi Kindo, Marshall Luban, Akira Matsuo, Hiroyuki Nojiri, James Raftery, Christian Schroder, Grigore A. Timco, Floriana Tuna, Wolfgang Wernsdorfer, and Richard E. P. Winpenny.
CHEMISTRY-A EUROPEAN JOURNAL, **2006**, *12*, 8961-8968.

17. Concentrations of VOCs and Ozone in Indoor Environments: a Case Study in Two Mediterranean Cities During Winter Period

J.G. Bartzis, C. Michael, S. Michaelidou, D. Missia, D. Saraga, **E. Tolis**, S. Psoma, C. Petaloti, D. Kotzias, J. M. Barero- Moreno
FRESENIUS ENVIRONMENTAL BULLETIN, **2008**, *17*, 1480-1484

18. Preliminary Results on PM₁ and Particle- bound Polycyclic Aromatic Hydrocarbons (PAHs) in Kozani, Greece.

E. Tolis, S. Amarantidis, D. Missia, D. Saraga, N. Koziakis, J.G. Bartzis.
FRESENIUS ENVIRONMENTAL BULLETIN, **2008**, *17*, 1634-1639.

19. Synthesis, Structural and Magnetochemical Studies of Iron Phosphonate Cages Based on {Fe₃O}⁷⁺ Core

Sumit Khanra, Sanjit Konar, Abraham Clearfield, Madeleine Helliwell, Eric J. L. MacInnes **Evangelos Tolis**, Floriana Tuna, and Richard E. P. Winpenny
INORGANIC CHEMISTRY, **2009**, *48*, 5338-5349.

20. Polycyclic Aromatic Hydrocarbons and ionic species associated with Particulate Matter in ambient air in Kozani city, Greece, during cold period.

Evangelos I. Tolis, Dafni A. Missia, Nikolaos D. Charisiou, John G. Bartzis
FRESENIUS ENVIRONMENTAL BULLETIN, **2010**, *19*, 2006-2012.

21. Secondary Organic Particles formation from Ozone-terpenes reactions: a case study in a residence of a Mediterranean city.

D.E. Saraga, T. Maggos, D. A. Missia, **E. I. Tolis**, C. Vasilakos and J.G. Bartzis
FRESENIUS ENVIRONMENTAL BULLETIN, **2010**, *19*, 2019-2025.

22. PAHs Sources Contribution to the Air Quality of an Office Environment: Experimental Results and Receptor Model (PMF) Application

Dikaia E. Saraga, Thomas Maggos, Athanasios Sfetsos, **Evangelos I. Tolis**, Spyros Andronopoulos, John G. Bartzis and Christos Vasilakos
AIR QUALITY, ATMOSPHERE AND HEALTH, **2010**, *3*, 225-234.

23. Indoor exposure from building materials: A field study.

Dafni A. Missia , E. Demetriou , N. Michael , **E.I. Tolis** , J.G. Bartzis
ATMOSPHERIC ENVIRONMENT, **2010**, *44*, 4388-4395.

24. Chemical characterization of Particulate Matter (PM) and Source Apportionment studies during winter and summer period for the city of Kozani, Greece.

Evangelos I. Tolis, Dikaia E. Saraga, George Z. Ammari , Theofilos Gougoulas, Christina C. Papaioannou, Anastasios K. Sarioglou, Eleftherios Kougioumtzidis, Athanasios Sfetsos, and John G. Bartzis
CENTRAL EUROPEAN JOURNAL OF CHEMISTRY, **2014**, *12(6)*, 643-651.

25. Microstructural analysis and determination of PM10 emission sources in an industrial Mediterranean city.

Evangelos I. Tolis, Evangelos I. Gkanas, Eleni Pavlidou, Athina Skemperi, Jorge Pey, Noemi Pérez, John G. Bartzis
CENTRAL EUROPEAN JOURNAL OF CHEMISTRY, **2014**, *12(10)*, 1081-1090.

26. One-year intensive characterization on PM_{2.5} nearby port area of Thessaloniki, Greece.

Evangelos I. Tolis, Dikaia E. Saraga, Katerina F. Filiou, Nikolaos I. Tziavos, Chistos P. Tsiaousis, Athanasios Dinas, John G. Bartzis

Environ Sci Pollut Res, **2015**, 22 (9), 6812-6826. DOI 10.1007/s11356-014-3883-7

27. Seasonal and diurnal variation of PM₁₀ ambient air concentration correlated with meteorological parameters for the city of Kozani, Greece.

Evangelos I. Tolis, Maria Siarga and John G. Bartzis,

Accepted at *POLLUTION ENVIRONMENT* **2016**

28. On organic emissions testing from indoor consumer products' use.

J. Bartzis, P. Wolkoff, M. Stranger, G. Efthimiou, **E.I. Tolis**, F. Maes, A.W. Nørgaard, G. Ventura, K.K. Kalimeri, E. Goelen, O. Fernandes

Journal of Hazardous Materials **2015**, 285 37–45.

29. PM_{2.5} chemical composition in five European Mediterranean cities: A 1-year study.

Dalia Salameh, Anais Detournay, Jorge Pey, Noemi Pérez, Francesca Liguori, Dikaia Saraga, Maria Chiara Bove, Paolo Brotto, Federico Cassola, Dario Massabò, Aurelio Latella, Silvia Pillon, Gianni Formenton, Salvatore Patti, Alexandre Armengaud, Damien Piga, Jean Luc Jaffrezo, John Bartzis, **Evangelos Tolis**, Paolo Prati, Xavier Querol, Henri Wortham, Nicolas Marchand

Atmospheric Research **2015**, 155, 102–117.

30. Concentration and chemical composition of PM_{2.5} for a one-year period at Thessaloniki, Greece: A comparison between city and port area.

Evangelos I. Tolis, Dikaia E. Saraga, Magdalini K. Lytra, Anastasia Ch. Papathanasiou, Panteleimon N. Bougaidis, Orestis E. Prekas-Patronakis, Ioannis I. Ioannidis, John G. Bartzis

Atmospheric Environment **2015**, 113, 197-207.

B. BOOKS Chapters

31. “Volatile Organic Compounds measurements at schools in Kozani, Greece”

D.A. Missia, E.I. Tolis, D. Karanikolas, C. Kosmidis, A. Markou, S. Mayrovouniotou and J.G. Bartzis

Environmental Science and Engineering: Information Technologies in Environmental Engineering, Springer pp. 203- 214 (ISBN: 978-3-540-88350-0), 2009

32. “Indoor concentrations of VOCs and ozone in two cities of Northern Europe during the summer period”.

Bartzis, J.G., Michaelidou, S., Missia, D., Tolis, E., Saraga, D., Demetriou-Georgiou, E., Kotzias, D., Barero-Moreno, J.M.

WIT Transactions on Ecology and the Environment 116, pp.459-466, 2008