

VOUTSADAKI STYLIANI Ph.D. Chemist

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EDUCATION

- 2004: B.Sc., Department of Chemistry, University of Crete, Greece
- 2007 : M.Sc., Department of Chemistry, University of Crete, Greece.
- 2009 PhD, Department of Chemistry, University of Crete, Greece.

FELLOWSHIPS & AWARDS

- 2000 - 2001 National Fellowship Foundation Award for entering first best in the Undergraduate Program at the Department of Chemistry.
- 2004 - 2005 National Fellowship Foundation Award for entering first best in the Graduate Program at the Department of Chemistry.
- 2005-2008 National Fellowship Foundation for a Ph.D. project: PENED2003 03ED819

PROFESSIONAL EXPERIENCE

- 2003 - 2009: Diploma, M.Sc. & Ph.D. thesis on Organic Chemistry.
Supervisor: Prof. H. E. Katerinopoulos, University of Crete, Greece.
- 2004 - 2005: Research Associate in projects:
1. *“Development of production methods based on natural dyes and identification of essential oils’ constituents derived from plants in Crete.”(HEI-NET)*
2. *“Synthesis of calcium fluorescent dyes.”*
Supervisor: Prof. H. E. Katerinopoulos, University of Crete, Greece.
- 2008: Research Associate in project: *“Controlling of calcium crystallization with chemical additives”*
Supervisor: Assistant Prof. K. Dimadis, University of Crete, Greece.
- 2010 - 2011 Scientific Collaborator in projects:
1. EEA grants – Greek Ministry of Economy, Competitiveness and Shipping: *“Innovation center of Crete with emphasis on management of natural resources.”*
2. National Participation 2009-EnviFriendly - Life05: *“Environmental friendly technologies for regional development.”*
3. SoilTrEC: *“Soil Transformations in European Catchments.”*
Scientific Director: Prof. N. P. Nikolaidis, Technical University of Crete, Greece.

TECHNICAL EXPERIENCE

Operation: GC-MS, FT-IR, 300MHz NMR, 500MHz NMR, Capillary Electrophoresis, Total Organic Carbon & Total Nitrogen Reactor and excellent knowledge of PC's.

PUBLICATIONS

1. E. Roussakis; **S. Voutsadaki**; E. Pinakoulaki; D. P. Sideris; K. Tokatlidis; H. E. Katerinopoulos
ICPBCZin: A red emitting ratiometric fluorescent indicator with nanomolar affinity for Zn²⁺ ions.
Cell Calcium **2008**, *44*, 270.
2. **S. Voutsadaki**; G. K. Tsikalas; E. Klontzas; G. E. Froudakis; H. E. Katerinopoulos
A "turn-on" coumarin-based fluorescent sensor with high selectivity for mercury ions in aqueous media.
Chem. Commun., **2010**, *46*, 3292.
3. **S. Voutsadaki**; H.E. Katerinopoulos
Zinc and cadmium ion fluorescent probes incorporating mono- and poly-aza macrocyclic ionophores.
Manuscript in preparation.
4. **S. Voutsadaki**; H.E. Katerinopoulos
Potential zinc fluorescent probes incorporating the bis-picolyamine ionophore.
Manuscript in preparation.
5. **S. Voutsadaki**, D. Moraitis, N.P. Nikolaidis
Mobility of geogenic origin As and Cr in soils.
5th European Bioremediation Conference, ID 191, July 4-7, 2011, Chania, Crete, Greece.
6. Moraetis D., **S. Voutsadaki**, M Kotronakis, G. Kontolaimakis, F.E. Stamati, N.P. Nikolaidis, N. Kalogerakis
Mobility of nitrogen and heavy metals in biosolid amended soil.
Presented at the Goldschmidt 2011 conference, August 14-18, Prague, Czech Republic.

CONFERENCES

1. *Total synthesis of a new zinc-probe*
S.Voutsadaki, E. Roussakis, H.E. Katerinopoulos
10th Chemistry M.Sc. graduate students' conference
2-4 July 2004, Kolympari, Chania, Crete.
2. *Synthesis and fluorescence studies of a zinc-probe*
S.Voutsadaki, E. Roussakis, H.E. Katerinopoulos
11th Chemistry M.Sc. graduate students' conference
8-10 July 2005, Kolympari, Chania, Crete.
3. *Synthesis and Spectral Properties of a Potential Fluorescent Zinc Indicator*
E. Roussakis, **S. Voutsadaki**, H.E. Katerinopoulos
14th European Symposium on Organic Chemistry, 4-8 July 2005, Helsinki Finland.
4. *Synthesis and Spectral Properties of a Potential Fluorescent Zinc Indicator.*
E. Roussakis, **S. Voutsadaki**, H.E. Katerinopoulos
12th Hellenic Symposium of Pharmaceutical Chemistry
27-28 January 2006, Patras Greece.
5. *Coumarin-type dicarboxylate and aza-macrocyclic fluorescent indicators as potential zinc ion concentration probes*
S. Voutsadaki, E. Roussakis, H. E. Katerinopoulos
2th Hellenic Symposium of Organic Chemistry
19-21 April 2007, Athens, Greece

6. *Coumarin-type Dicarboxylate and Aza-macrocyclic Fluorescent Indicators as Potential Zinc Ion Concentration Probes*
S. Voutsadaki, E. Roussakis, H. E. Katerinopoulos
8th International Conference in Medicinal Chemistry
Patras, Greece March 15-17, 2007
7. *Synthesis and Ion Selectivity Studies of Potential Fluorescent Ion Indicators.*
H. E. Katerinopoulos, E. Roussakis, G. K. Tsikalas, **S. Voutsadaki**
236th ACS National Meeting, Philadelphia, PA, August 17-21, 2008, MEDI 79
8. *Synthesis and fluorescence study of the properties of a new, coumarin-based mercury probe*
S. Voutsadaki, H.E. Katerinopoulos
10th Congress in Chemistry Greece-Cyprus
2-4 July 2009, Heraklion, Crete.
9. *Synthesis, spectral profile and competition study of a new coumarin-based probe, selective for mercury II ions.*
S. Voutsadaki, H. E. Katerinopoulos
3rd Hellenic Symposium on Organic Synthesis
15-17 October, Athens, Greece, 2009
10. *Mobility of geogenic origin As and Cr in soils.*
S. Voutsadaki, D. Moraitis, N.P. Nikolaidis
5th European Bioremediation Conference, ID 191, July 4-7, 2011, Chania, Crete, Greece.
11. *Mobility of nitrogen and heavy metals in biosolid amended soil.*
Moraetis D., **S. Voutsadaki**, M Kotronakis, G. Kontolaimakis, F.E. Stamati, N.P. Nikolaidis, N. Kalogerakis
Goldschmidt 2011 conference, August 14-18, Prague, Czech Republic.

KNOWLEDGE OF FOREIGN LANGUAGES

1. First Certificate in English, Cambridge University
2. Zertifikat Elementarstufe Deutsch