

# C u r r i c u l u m   v i t a e

**Name:** Eleftheria Neofotistou

**Occupation:** Laboratory Teaching Staff / Inorganic Chemistry and Instrumental Analysis

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## Studies

- 29/06/2005 – 16/12/2009: Doctorate (Ph.D.) in Inorganic Chemistry, Department of Chemistry, University of Crete, Thesis Title: “Synthesis, characterization and properties of new porous coordination polymers”
- 15/10/2002 – 17/03/2005: M.Sc. in Inorganic Chemistry, Department of Chemistry, University of Crete, Thesis Title: “SiO<sub>2</sub> formation in aqueous solutions and its prevention using dendrimers and polymers additives”
- 1998 – 2002: Bachelor’s in chemistry, Department of Chemistry, University of Crete

## Professional Experience

- 2022- today: Laboratory Teaching Staff (EDIP) in the Department of Nutrition & Dietetics Sciences  
Courses: General and Inorganic Chemistry (lectures and laboratory classes)  
Quality Control – Food Safety (laboratory classes).
- 2009-2022: Teacher of Science in secondary schools in Greece

## Research/Laboratory Experience

- Member of Professor K.D. Demadis research laboratory at University of Crete, Department of Chemistry, in the field of Inorganic Chemistry.
- Assistant during undergraduated Laboratory classes of Inorganic Chemistry, Department of Chemistry, University of Crete.
- Head of the school science laboratory at the 1st Junior High School of Sitia, Crete

## Languages Skill

Greek (mother tongue)

English (ECPE)

## Scholarships/Awards

- Scholarship by "MARIA MICHAEL MANASAKI" endowment as a reward for high performance in the general postgraduate program of the Department of Chemistry of the University of Crete for the academic year 2002 - 2003.
- Award for good performance award from the University of Crete in 2002
- Scholarship for good performance by State Scholarship Foundation for the academic years 1999-2000, 2000-2001.

## Member of the following scientific communities:

- **2002:** Association of Greek Chemists

## Publications

1. **E. Neofotistou**, G. Tsikalakis, D. Kafousia, P. Bourbourakis, Temporal Investigation of the Changes in the Quality Parameters of the Surface Water of the River Pantélis-Sitia, E3S Web of Conferences, (2024),585,09006
2. G. Tsikalakis, K. Laouri, **E. Neofotistou**, N. Thalassinou, The Integration of the Lion Fish in the Diet of the Cypriot as a Means of Maintaining Marine Ecosystem, E3S Web of Conferences, (2024),585, 03001
3. G. Tsikalakis, **E. Neofotistou**, E. Kontogiannakis, A.-M.Pau, E. M. Caglayan, R. Fernandez-Canez, M. Perez-Accino, "Sustainable development as an education tool for primary school students through SCRATCH code", E3S Web of Conferences, (2023), **436**, 06007
4. G.J. Tsikalakis, N.J Makrinakis, P.J. Bourbourakis, **E.D. Neofotistou**, "Economic and Sustainable Development in Eastern Crete Through the Lithines Irrigation Dam", (2023), E3S Web of Conferences, 2023, 436, 04005
5. **E. Neofotistou**, K.D. Demadis, "Cationic polymeric chemical inhibitors and multifunctional blends for the control of silica scale in process waters", Int. J. Corros. Scale Inhib., 2014, 3(1), 28-34.
6. **E. Neofotistou**, D. Malliakas and P. N. Trikalitis, "Remarkable structural diversity and single-crystal-to-single-crystal transformations in sulfone functionalized lanthanide MOF's", CrystEngComm, 2010, 12, 1034 - 1037
7. **E. Neofotistou**, D. Malliakas and P. N. Trikalitis, "Unprecedented Sulfone-Functionalized Metal-Organic Frameworks and Gas-Sorption Properties", Chem. Eur. J. 2009, 15, 4523 – 4527.
8. **E. Neofotistou**, D. Malliakas and P. N. Trikalitis, "Novel coordination polymers based on the tetrathioterephthalate dianion as bridging ligand", Inorg. Chem., 2007, 46, 8487-8489.
9. E. Mavredaki, A. Stathouloupoulou, **E. Neofotistou**, K. D. Demadis, "Environmentally benign chemical additives in the treatment and chemical cleaning of process water systems: Implications for green chemical technology", Desalination, 2007, 210, 257–265.
10. K.D. Demadis, **E. Neofotistou**, "Synergistic Effects of Combinations of Cationic Polyaminoamide Dendrimers/Anionic Polyelectrolytes on Amorphous Silica Formation: A Bioinspired Approach", Chem. Mater., 2007, 19, 581-587.
11. K.D. Demadis, E. Mavredaki, A. Stathouloupoulou, **E. Neofotistou**, C. Mantzaridis, "Industrial water systems: problems, challenges and solutions for the process industries", Desalination, 2007, 213, 38–46.
12. Demadis, K.D., **Neofotistou, E.**, Mavredaki, E., Tsiknakis, M., Sarigiannidou, E.-M., Katarachia, S.D., "Inorganic Foulants in Membrane Systems: Chemical Control Strategies and the Contribution of "Green Chemistry", Desalination, 2005, 179, 281-295.
13. Mavredaki, E., **Neofotistou, E.**, Demadis, K.D., "Inhibition and Dissolution as Dual Mitigation Approaches for Colloidal Silica (SiO<sub>2</sub>) Fouling and Deposition in Process Water Systems: Functional Synergies.", Industrial and Engineering Chemistry Research 2005, 44, 7019-7026.

14. **Neofotistou, E.**, Demadis K.D., “Silica Scale Inhibition By Polyaminoamide STARBURST<sup>□</sup> Dendrimers”, *Colloids & Surfaces A: Physicochemical and Engineering Aspects*, 2004, 242, 213.
15. **Neofotistou, E.**, Demadis, K.D., “Use of Antiscalants for Mitigation of Silica (SiO<sub>2</sub>) Fouling and Deposition: Fundamentals and Applications in Desalination Systems.”, *Desalination*, 2004, 167, 257.
16. Demadis, K.D., **Neofotistou, E.**, “Inhibition and Growth Control of Colloidal Silica: Designed Chemical Approaches”, *Materials Performance* 2004, 43(4), 38.
17. **Neofotistou, E.**, Mavredaki, E., Sarigiannidou, E., Demadis, K.D., “Biodegradable Additives in Chemical Cooling Water Treatment: The Contribution of “Green Chemistry”, *Hydroeconomy* 2004, March-April, p. 106 (in Greek)
18. M. Aivaliotis, **E. Neofotistou**, H.-W. Remigy, G. Tsimpinos, Ariel Lustig, F. Lottspeich & G. Tsiotis. “Isolation and characterization of an outer membrane protein of *Chlorobium tepidum*”, *Photosynthesis Research*, 2004, 79, 161–166.
19. M. Aivaliotis, P. Samolis, **E. Neofotistou**, H. Remigy, A. K. Rizos, G. Tsiotis: “Molecular size determination of a membrane protein in surfactants by light scattering”, *Biochimica et Biophysica Acta (BBA) - Biomembranes*, 2003, 1615, 1-2, p. 69-76

### **International Peer-Reviewed conferences**

1. Georgios Tsikalakis, Katerina Laouri, **Eleftheria Neofotistou** and Nikolaos Thalassinou, (2024), “The Integration of the Lion Fish in the Diet of the Cypriots as a Means of Maintaining Marine Ecosystem”, 5th International Conference on Environmental Design and Health (ICED2024), Athens 19-21 October 2024.
2. **Eleftheria Neofotistou**, Georgios Tsikalakis, Dimitra Kafousia and Panagiotis Bourbourakis, (2024) "Temporal Investigation of the Changes in the Quality Parameters of the Surface Water of the River Pantélis-Sitia" 5th International Conference on Environmental Design and Health (ICED2024), Athens 19-21 October 2024.
3. Georgios Tsikalakis, **Eleftheria Neofotistou**, Emmanouil Kontogiannakis, Pau Alonso-Monasterio, Mehmet CaglayanErcakir, Regina Fernandez- Canez and Maria Martinez Perez-Accino, “Sustainable development as an education tool for primary school students through SCRATCH code”, ICED 2023, 4<sup>th</sup> International Conference on Environmental Design, Athens 20-22 October 2023.
4. *Georgios J. Tsikalakis, Nikolaos J. Makrinakis, Panagiotis J. Bourbourakis, and **Eleftheria D. Neofotistou***, “Economic and Sustainable Development in Eastern Crete Through the Lithines Irrigation Dam”, ICED 2023, 4<sup>th</sup> International Conference on Environmental Design, Athens 20-22 October 2023.