CURRICULUM VITAE

La prof. Claudia Foti è nata a Reggio Calabria l'11 maggio 1966.

Nel 1984 ha conseguito il **Diploma di Maturità Classica** presso il Liceo Classico "T. Campanella" di Reggio Calabria.

Il 21 Luglio 1989 ha conseguito la **Laurea in Chimica** presso l'Università degli Studi di Messina, con il massimo dei voti e la lode accademica.

Nel novembre 1989 ha conseguito l'**abilitazione all'esercizio della professione di chimico**.

Nel triennio 1989-1992 ha frequentato il Dottorato di Ricerca in Scienze Chimiche (V Ciclo) presso l'Università degli Studi "La Sapienza" di Roma.

Nel 1993 ha conseguito il titolo di **Dottore di Ricerca in Scienze Chimiche**.

Il 23 luglio 1992 ha preso servizio come ricercatore per il settore scientifico disciplinare C01A-Chimica Analitica presso l'Istituto di Chimica Analitica della ex Facoltà di Scienze MM.FF.NN. dell'Università degli Studi di Messina.

Il 27 ottobre 1999 è stata dichiarata idonea nella procedura di valutazione comparativa a professore associato per il settore scientifico disciplinare C01A-Chimica Analitica, presso l'Università degli Studi di Salerno (D.R. n. 5061).

Il 22 marzo 2000 ha preso servizio come professore associato per il settore Scientifico Disciplinare C01A-Chimica Analitica, presso la ex Facoltà di Scienze MM.FF.NN dell'Università degli studi di Messina.

Il 10 novembre 2015 ha conseguito l'Abilitazione Scientifica Nazionale per la Prima Fascia, Settore Concorsuale 03/A1 – Chimica Analitica.

Il 30 novembre 2016 ha preso servizio come **professore ordinario** per il settore Scientifico Disciplinare C01A-Chimica Analitica, presso il Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali dell'Università degli studi di Messina.

Dal 2007 è **membro del Collegio dei Docenti del Dottorato di Ricerca in "Scienze Chimiche"** dell'Università di Messina.

Nel triennio 2013-2015 è stata **Coordinatore del Corso di Studio in Chimica**.

Da 2015 è **Coordinatore del Corso di Studio Magistrale in Chimica**.

ORGANIZZAZIONE SCUOLE E CONGRESSI

Ha partecipato all'organizzazione delle seguenti scuole e congressi a diffusione internazionale

- 1998: Internation School on Marine Chemistry (Ustica, Palermo, Settembre 1998)
- 2000: Internation School on Marine Chemistry (Ustica, Palermo, Settembre 2000)
- 2004: Mediterranean Conference on Chemistry of Aquatic Systems" (Reggio Calabria, 4-8 settembre 2004)
- 2011: XXII International Symposium on Metal Complexes (Giardini Naxos, Messina, 13-16 settembre 2011)
- 2016: XXVI Congresso della Divisione di Chimica Analitica della Società Chimica Italiana (SCI) (Giardini Naxos, Messina, 18-22 settembre 2016)
- 2017: Workshop delle sezioni Sicilia-Calabria SCI (Messina 9-10 febbraio 2017)
- 2018: Congresso Congiunto Sicilia Calabria SCI (Catania, 9-10 febbraio 2018).

COMITATO SCIENTIFICO CONGRESSI

- 2017: Workshop delle sezioni Sicilia-Calabria SCI (Messina 9-10 febbraio 2017)
- 2018: Congresso Congiunto Sicilia Calabria SCI (Catania, 9-10 febbraio 2018).

ATTIVITÀ DIDATTICA

La prof. Foti ha una continua e comprovata esperienza didattica, prevalentemente svolta nell'ambito di discipline del settore di Chimica Analitica dei CdS in Chimica (vecchio e nuovo ordinamento, triennali e magistrali).

In particolare la prof. Foti ha tenuto i seguenti corsi:

Nell'ambito del Corso di Laurea in Chimica quinquennale (vecchio ordinamento):

- *Anni Accademici 1995/96, 1996/97 e 1997/98:* **Laboratorio di Chimica Analitica 1** (SSD: CHIM/01):
- *Anni Accademici 1998/99 e 1999/2000:* **Laboratorio di Chimica Analitica 4** (SSD CHIM/01)
- *Anni Accademici 2000/01 e 2001/02*: **Chimica Analitica Strumentale** (SSD CHIM/01).

Nell'ambito del Corso di Studio triennale in Chimica

- *Anni Accademici 2005/06, 2006/07 e 2007/08:* **Laboratorio di Chimica Analitica Strumentale** (SSD CHIM/01).
- *Dall'Anno Accademico 2002/03 ad oggi:* **Chimica Analitica Strumentale** (SSD CHIM/01).

Nell'ambito del Corso di Studio magistrale in Chimica

- *Anni Accademici 2004/05, 2005/06, 2006/07, 2007/08, 2008/09*: **Abbattimento e Recupero Inquinanti** (SSD: CHIM/12)
- *Anni Accademici 2009/10 e 2010/11*: **Chimica Analitica dei Sistemi Naturali: Sistemi Acquatici** (SSD: CHIM/01)
- *Anni Accademici 2011/12 e 2012/13 e 2013/14:* **Chimica Analitica dei Sistemi Naturali: Mod. A Speciazione** (SSD: CHIM/01)
- *Dall'Anno Accademico 2014/15:* **Chimica Analitica Superiore** (SSD: CHIM/01)

Nell'ambito del corso di Dottorato DI RICERCA in Scienze Chimiche (XXVI, XXVII, XXVIII e XXIX ciclo)

- **Tecniche Separative Avanzate**

Nell'ambito del Master Universitario di II livello in Rischio Ambientale: Origini, Analisi e Monitoraggio:

- **Inquinamento Atmosferico: Modulo A**

Nell'ambito dei Corsi di Studio in Scienze e Tecnologie Agrarie, Scienze e Tecnologie Alimentari, Scienze Forestali ed Ambientali (ex Facoltà di Agraria dell'Università "Mediterranea" di Reggio Calabria)

- *Anni Accademici 2003/04, 2005/06, 2006/07*: **Chimica Generale, Inorganica e Organica: Mod. Chimica Organica**

Nell'ambito della Scuola Nazionale di Chimica Analitica per Dottorandi (Settembre 2014) ha tenuto la lezione di:

- **Speciazione di elementi in tracce: modelli termodinamici e loro applicazioni a matrici alimentari**

Ha coordinato l'attività di ricerca di numerosi laureandi e dottorandi di ricerca, è stata relatore di oltre venti tesi di laurea triennale e magistrale in Chimica.

ATTIVITÀ SCIENTIFICA

L'attività di ricerca della prof. Foti si inquadra nell'ambito delle analisi di equilibrio in soluzione, con particolare interesse verso gli studi di speciazione dei fluidi naturali.

La sua attività di ricerca è stata rivolta soprattutto allo studio di: 1. Modelli per la dipendenza dei parametri termodinamici di protonazione e di formazione di complessi dal mezzo e dalla forza ionica; 2. studio delle interazioni deboli in soluzione acquosa; 3. idrolisi di metalli e organometalli e loro complessi con sostanze organiche; 4. applicazioni ad acque naturali; 5. valutazione delle capacità sequestranti di leganti o classi di leganti nei confronti di metalli e organometalli di interesse ambientale e/o biologico.

I risultati dell'attività di ricerca sono riportati in oltre 115 contributi scientifici pubblicati su riviste ISI, 5 capitoli di libri a diffusione internazionale e diverse comunicazioni a congressi.

Alcuni di questi prodotti sono frutto di collaborazioni con colleghi di università italiane (Università di Catania, di Cosenza, di Roma, di Palermo e di Torino) o straniere (Rosenstiel School of Marine and Atmospheric Science, Miami University; King Abd Al-Aziz University e King Saud University, Arabia Saudita; Cairo University e Assiut University, Egitto; Institute of Biophysics of the Czech Academy of Sciences, Brno, Czech Republic), nonché Enti di Ricerca (CNR-IPCF, Messina).

REVIEWER DI RIVISTE ISI

E' stata consultata come referee per la valutazione di lavori sottomessi per la pubblicazione alle seguenti riviste ISI:

Analytical Methods
Chemical Engineering & Technology
Environmental Pollution
Inorganica Chimica Acta
Journal Chemical and Engineering Data
Journal of Chemistry
Journal of Inorganic Biochemistry
Journal of Molecular Liquids
Journal of Solution Chemistry
Journal of Visualized Experiments
Marine Chemistry
New Journal of Chemistry
South African Journal of Chemistry

ELENCO PUBBLICAZIONI

1. Cuffari, G., A. De Robertis, C. De Stefano, and C. Foti, *Studies on Polyfunctional O-ligands. Benzenepentacarboxylate Complex Formation with H^+, Na^+ and K^+ in Aqueous Solution at Different Ionic Strengths.* J. Chem. Res., 1991: p. (S) 264 (M) 2501-2516.

2. De Robertis, A., C. Foti, and A. Gianguzza, *Studies on Polyfunctional O-ligands. Alkali and Alkaline Earth Metal Complexes of Butanetetracarboxylate in Aqueous Solution.* Ann. Chim. (Rome), 1993. **83**: p. 485-497.
3. De Stefano, C., C. Foti, and A. Gianguzza, *Ionic Strength Dependence of Formation Constants. Part XIX. The Effect of Tetramethylammonium, Sodium and Potassium Chlorides on the Protonation Constants of Pyrophosphate and Triphosphate at Different Temperatures.* J. Chem. Res., 1994: p. (S) 464 (M) 2639-2661.
4. De Stefano, C., C. Foti, and A. Gianguzza, *Salt Effects on the Protonation and on Alkali and Alkaline Earth Metal Complex Formation of 1,2,3-Propanetricarboxylate in Aqueous Solution.* Talanta, 1994. **41**(10): p. 1715-1722.
5. De Stefano, C., C. Foti, S. Sammartano, A. Gianguzza, and C. Rigano, *Equilibrium Studies in Natural Fluids. Use of Synthetic Seawater and Other Media as Background Salts.* Ann. Chim. (Rome), 1994. **84**: p. 159-175.
6. Foti, C., A. Gianguzza, and F. Licastro, *On the Ability of Copper(II) to Form Mixed Complexes with Carboxylic Ligands in Aqueous Solution.* Ann. Chim. (Rome), 1994. **21**: p. 295-303.
7. De Robertis, A., C. De Stefano, C. Foti, S. Sammartano, and A. Gianguzza, *Mixed Aminocarboxylic Ligand Complexes.* J. Chem. Soc. Faraday Trans., 1995. **91**(11): p. 1619-1624.
8. De Robertis, A., P. Di Giacomo, and C. Foti, *Ion-selective Electrode Measurements for the Determination of Formation Constants of Alkali and Alkaline Earth Metals with Low Molecolar-Weight Ligands.* Analytica Chim. Acta, 1995. **300**: p. 45-51.
9. De Robertis, A., C. Foti, and A. Gianguzza, *Ionic Strength Dependence of Formation Constants. Part XX. Salt Effects on the Protonation of 1H-1,2,3-Triazole-4,5-Dicarboxylic Acid in Aqueous Solution.* J. Chem. Res., 1995: p. (S) 288-289.
10. De Stefano, C., C. Foti, and A. Gianguzza, *Ligand-Ligand Complexes of Ethylenediaminetetracetic acid and Histidine or Ethylediamine.* Ann. Chim. (Rome), 1995. **85**: p. 69-75.
11. De Stefano, C., C. Foti, and A. Gianguzza, *Studies on Ligand-Ligand Interactions. Formation and Stability of Proton-Diethylenetriamine-Carboxylic Ligand Complexes in aqueous Solution.* Ann. Chim. (Rome), 1995. **85**: p. 77-85.
12. De Stefano, C., C. Foti, A. Gianguzza, and S. Sammartano, *Chemical Speciation of Amino Acids in Electrolyte Solutions Containing Major Components of Natural Fluids.* Chem. Spec. Bioavail., 1995. **7**(1): p. 1-8.
13. De Robertis, A., C. De Stefano, and C. Foti, *Studies on Polyfunctional O-Ligands. Protonation in Different Ionic Media and Alkali and Alkaline Earth Metal Complex Formation of Benzenehexacarboxylate.* Ann. Chim. (Rome), 1996. **86**: p. 155-166.
14. De Robertis, A., C. De Stefano, C. Foti, A. Gianguzza, S. Sammartano, and G. Signorino, *Models of Natural Fluids: the Network of Chemical Interactions.* Ann. Chim. (Rome), 1996. **86**: p. 539-563.
15. De Robertis, A., C. De Stefano, C. Foti, O. Giuffrè, and S. Sammartano, *Binding of Benzenehexacarboxylic Anion by Protonated Diethanolamine and Ethylenediamine, in Aqueous Solution.* J. Chem. Res., 1996: p. (S) 60-61.
16. De Robertis, A., C. Foti, A. Gianguzza, and C. Rigano, *Protonation Thermodynamic of 1,10-Phenanthroline in Aqueous Solution. Salt Effects and Weak Complex Formation.* J. Solution Chem., 1996. **25**(6): p. 597-606.
17. De Stefano, C., C. Foti, A. Gianguzza, O. Giuffrè, and S. Sammartano, *Quantitative Study of the Interactions of ATP with Amines and Amino acids.* J. Chem. Soc. Faraday Trans., 1996. **92**(9): p. 1511-1518.
18. De Stefano, C., C. Foti, A. Gianguzza, M. Martino, L. Pellerito, and S. Sammartano, *Hydrolysis of $(CH_3)_2Sn^{2+}$ in Different Ionic Media: Salt Effects and Complex Formation.* J. Chem. Eng. Data, 1996. **41**: p. 511-515.

19. De Stefano, C., C. Foti, and O. Giuffrè, *Binding of Hexacyanoferrate(II) by Aliphatic Amines in Aqueous Solution.* J. Solution Chem., 1996. **25**(2): p. 155-165.
20. De Stefano, C., C. Foti, O. Giuffrè, P. Mineo, C. Rigano, and S. Sammartano, *Binding of Tripolyphosphate by Aliphatic Amines: Formation, Stability and Calculation Problems.* Ann. Chim. (Rome), 1996. **86**: p. 257-280.
21. De Stefano, C., C. Foti, O. Giuffrè, and S. Sammartano, *Formation and Stability of Pyrophosphate Complexes with Aliphatic Amines in Aqueous Solution.* Talanta, 1996. **43**: p. 707-717.
22. Foti, C., A. Gianguzza, and O. Giuffrè, *Studies on Ligand-Ligand Interactions. Formation and Stability of Sulphate-, Oxalate- and Hexacyanoferrate(II)- Pyridine Complexes in Aqueous Solution.* Ann. Chim. (Rome), 1996. **86**: p. 41-48.
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24. Daniele, P.G., E. Prenesti, A. De Robertis, C. De Stefano, C. Foti, O. Giuffrè, and S. Sammartano, *Binding of Inorganic and Organic Polyanions by Protonated Open Chain Polyamines in Aqueous Solution.* Ann. Chim. (Rome), 1997. **87**: p. 415-447.
25. De Robertis, A., C. De Stefano, C. Foti, and G. Signorino, *Thermodynamic Parameters for the formation of Dimeric Hydrolytic Species of Copper(II) in Aqueous $NaClO_4$ Solution at Different Ionic Strengths.* Talanta, 1997. **44**: p. 1839-1846.
26. De Robertis, A., C. Foti, and O. Giuffrè, *Formation and Stability of Mixed Proton-Diethanoloamine-Carboxylic Ligand Complexes in Aqueous Solution.* Ann. Chim. (Rome), 1997. **87**: p. 389-396.
27. De Robertis, A., C. Foti, S. Sammartano, and A. Gianguzza, *Chemical Speciation of Some Classes of Low Molecular Weight Ligands in Seawater*, in *Marine Chemistry - An Environmental Analytical Chemistry Approach*, A. Gianguzza, E. Pelizzetti, and S. Sammartano, Editors. 1997, Kluwer Academic Publishers: Amsterdam. p. 59-69.
28. Foti, C., A. Gianguzza, and S. Sammartano, *A Comparison of Equations for Fitting Protonation Constants of Carboxylic Acids in Aqueous Tetramethylammonium Chloride at Various Ionic Strengths.* J. Solution Chem., 1997. **26**(6): p. 631-648.
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39. Curini, R., A. De Robertis, C. Foti, S. Materazzi, and M.A. Orrù, *Solubility and Thermal Stability of Some Amino-Mellitate Compounds.* Talanta, 1999. **48**: p. 151-162.
40. De Robertis, A., C. De Stefano, and C. Foti, *Medium effects on the protonation of carboxylic acids at different temperatures.* J. Chem. Eng. Data, 1999. **44**: p. 262-270.
41. De Stefano, C., C. Foti, and A. Gianguzza, *Interactions of Alkyltin(IV) Compounds with Ligands of Interest in the Speciation of Natural Fluids: Complex of $(CH_3)_3Sn^+$ with Carboxylates.* Ann. Chim. (Rome), 1999. **89**: p. 147-155.
42. De Stefano, C., C. Foti, A. Gianguzza, F. Marrone, and S. Sammartano, *Hydrolysis of Methyltin(IV) Trichloride in Aqueous NaCl and $NaNO_3$ Solutions at Different Ionic Strengths and Temperatures.* Appl. Organomet. Chem., 1999. **13**: p. 805-811.
43. De Stefano, C., C. Foti, A. Gianguzza, F.J. Millero, and S. Sammartano, *Hydrolysis of $(CH_3)_3Sn^+$ in various salt media.* J. Solution Chem., 1999. **28**(7): p. 959-972.
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polyammonium cations in aqueous solution. J. Chem. Eng. Data, 2004. **49**: p. 133-137.
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