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### ***Curriculum scientifico***

La prof. Claudia Foti ha conseguito la Laurea in Chimica nel luglio 1989. Dal 2000 è professore associato del settore scientifico disciplinare CHIM/01, Chimica Analitica.

La sua attività di ricerca riguarda soprattutto lo studio di equilibri chimici in soluzione con particolare interesse verso i seguenti settori: -Modelli di fluidi naturali. -Complessi dei metalli alcalini ed alcalino-terrosi con leganti a basso peso molecolare. -Formazione di complessi di poliammine protonate con polianioni organici ed inorganici. -Idrolisi di cationi metallici ed organometallici. -Modelli per la dipendenza dei parametri termodinamici di protonazione e di formazione di complessi dalla forza ionica. È coautrice di 80 contributi scientifici. Ha presentato i risultati delle sue ricerche a congressi nazionali ed internazionali.

### ***Elenco pubblicazioni (1998-2007)***

1. V. Cannizzaro, C. Foti, A. Gianguzza, and F. Marrone. Hydrolysis of Trimethyltin(IV) Cation in NaNO<sub>3</sub> and NaCl Aqueous Media at Different Temperatures and Ionic Strengths. *Ann. Chim. (Rome)*, **88**, 45-54 (1998).
2. A. Casale, C. Foti, S. Sammartano, and G. Signorino. Thermodynamic Parameters for the Protonation of Some Polyamines C<sub>(2n-2)</sub>N<sub>n</sub>H<sub>(5n-2)</sub> in NaCl Aqueous Solution at Different Ionic Strengths. *Ann. Chim. (Rome)*, **88**, 55-70 (1998).
3. A. De Robertis, C. Foti, G. Patanè, and S. Sammartano. Hydrolysis of (CH<sub>3</sub>)Hg<sup>+</sup> in Different Ionic Media: Salt Effects and Complex Formation. *J. Chem. Eng. Data*, **43**, 957-960 (1998).
4. C. De Stefano, C. Foti, A. Gianguzza, and D. Piazzese. Equilibrium studies in natural fluids: interactions of PO<sub>4</sub><sup>3-</sup>, P<sub>2</sub>O<sub>7</sub><sup>4-</sup> and P<sub>3</sub>O<sub>10</sub><sup>5-</sup> with the major constituents of sea water. *Chem. Spec. Bioavail.*, **10**(1), 19-26 (1998).
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8. C. Foti, S. Sammartano, and G. Signorino. The Dependence on Ionic Strength of Protonation Constants of Carboxylic Acids in Aqueous Tetraethylammonium Iodide Solution, at Different Temperatures. *Fluid Phase Equilibria*, **149**, 91-101 (1998).
9. L. Abate, C. De Stefano, C. Foti, and S. Sammartano. Binding of glyphosate by open-chain polyammonium cations. *Env. Tox. Chem.*, **18**(10), 2131-2137 (1999).
10. S. Cascio, A. De Robertis, and C. Foti. Protonation of Diamines H<sub>2</sub>N-(CH<sub>2</sub>)<sub>n</sub>-NH<sub>2</sub> (n = 2 to 10) in NaCl Aqueous Solution at Different Ionic Strengths. *J. Chem. Eng. Data*, **44**(4), 735-738 (1999).
11. R. Curini, A. De Robertis, C. Foti, S. Materazzi, and M.A. Orrù. Solubility and Thermal Stability of Some Amino-Mellitate Compounds. *Talanta*, **48**, 151-162 (1999).
12. A. De Robertis, C. De Stefano, and C. Foti. Medium effects on the protonation of carboxylic acids at different temperatures. *J. Chem. Eng. Data*, **44**, 262-270 (1999).
13. C. De Stefano, C. Foti, and A. Gianguzza. Interactions of Alkyltin(IV) Compounds with Ligands of Interest in the Speciation of Natural Fluids: Complex of (CH<sub>3</sub>)<sub>3</sub>Sn<sup>+</sup> with Carboxylates. *Ann. Chim. (Rome)*, **89**, 147-155 (1999).

14. C. De Stefano, C. Foti, A. Gianguzza, F. Marrone, and S. Sammartano. Hydrolysis of Methyltin(IV) Trichloride in Aqueous NaCl and NaNO<sub>3</sub> Solutions at Different Ionic Strengths and Temperatures. *Appl. Organomet. Chem.*, **13**, 805-811 (1999).
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25. C. De Stefano, C. Foti, and O. Giuffrè. Medium effects on the protonation enthalpies of linear diamines in NaCl aqueous solutions, at 25°C. *Thermochim. Acta*, **363**, 29-35 (2000).
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27. A. De Robertis, C. De Stefano, C. Foti, O. Giuffrè, and S. Sammartano. Thermodynamic parameters for the binding of inorganic and organic anions by biogenic polyammonium cations. *Talanta*, **54**, 1135-1152 (2001).
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39. C. Bretti, C. Foti, and S. Sammartano. Calculation of SIT parameters. Part I. A new approach in the use of SIT in determining the dependence on ionic strength of activity coefficients. Application to some chloride salts of interest in the speciation of natural fluids. *Chem. Spec. Bioavail.*, **16**(3), 105-110 (2004).
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