

Prof. Francesco Crea

Curriculum Vitae
Scientific and teaching activity

Prof. Francesco Crea was born in Palmi (RC) on 05 May 1972. On 29 July 1997 he graduated in Chemistry with a final grade of 110/110, at the University of Messina discussing a thesis from title: "Solubility and thermal stability of linear polyamine complexes with mellitic acid".

In November 1997 he obtained the qualification to practice as a chemist.

He was the winner of the competition for admission to the three-year PhD course in Chemical Sciences XIII Cycle, and he obtained the title of PhD in Chemical Sciences on 18/02/2002 discussing an experimental thesis entitled: "Interactions between polysulfonic anions and polyamines: thermodynamic study, separation and dosage by HPLC" carried out at the Department of Inorganic Chemistry, Analytical Chemistry and Physical Chemistry of the University of Messina.

He was the winner of the competition for filling a post as a university researcher at the Faculty of Sciences of MM. FF. NN. of the University of Messina for the scientific disciplinary sector Chim / 01 "Analytical Chemistry" on 17/07/2002, and from 16 September 2002 to 15 December 2010 he worked in the department of Inorganic Chemistry, Analytical Chemistry and Chemistry Physics where he belongs for research and belongs to degree courses in Chemistry, three-year and master's degree courses, as regards teaching.

He was the winner of the comparative assessment for the position of tenured university professor of the second tier at the Faculty of Sciences of the MM. FF. NN. of the University of Messina for the scientific disciplinary sector Chim / 01 "Analytical Chemistry", and since 15 December 2010 he has been working at the same faculty.

The research activity carried out in collaboration with both Italian and foreign university researchers focuses on speciation studies of both metals and different classes of organic and inorganic ligands in multi-component solutions simulating biological fluids and natural waters.

The certified teaching activity carried out since 2002 has involved both the teaching of different subjects entrusted to him by the Faculty of Sciences of the University of Messina, and participation in various examination commissions and tutoring activities for students in thesis and PhD students; furthermore, given the needs of the Analytical Chemistry sector, he carried out additional tasks within various teaching courses held by other professors in the sector.

He has also been supervisor of many bachelor's and master's degree theses in chemistry and management of natural and anthropogenic risks. He was supervisor of four PhD theses in Chemical Sciences

TEACHING ACTIVITY

Dr. As far as teaching is concerned, Francesco Crea belongs to the degree courses in Chemistry, the three-year and master's degree course of the Faculty of Sciences MM.FF.NN. of the University of Messina and carried out the following courses as didactic activity:

A.A. 2002/2003: Analytical Chemistry II for the degree course in Chemistry (old five-year system);

A.A. 2003/2004; Analytical Chemistry II for the degree course in Chemistry (old five-year system);

A.A. 2004/2005:

1) Chemical Analysis of Real Samples for the degree course in chemistry (three-year degree course);

- 2) Instrumental Analytical Chemistry for the degree course in chemistry (old five-year system);
- 3) Quality Control and Validation of Methods in Analytical Chemistry for the degree course in Chemistry (Master's degree course, curriculum of advanced methodologies and quality control).

A.A. 2005-2006:

- 1) Chemical Analysis of Real Samples for the degree course in chemistry (three-year degree course);
- 2) Complements of Analytical Chemistry (module A) (Master's Degree course, curriculum of advanced methodologies and quality control).

A.A. 2006-2007:

- 1) Chemical Analysis of Real Samples for the degree course in chemistry (three-year degree course);
- 2) Complements of Analytical Chemistry (module A) (Master's Degree course, curriculum of advanced methodologies and quality control).

A.A. 2007-2008:

- 1) Chemical Analysis of Real Samples for the degree course in chemistry (three-year degree course);
- 2) Complements of Analytical Chemistry (module A) (Master's Degree course, curriculum of advanced methodologies and quality control).

A.A. 2008-2010:

- 1) Chemical Analysis of Real Samples for the degree course in chemistry (three-year degree course);

A.A. 2010-2021:

- 1) Laboratory of Instrumental Analytical Chemistry for the degree course in chemistry (three-year degree course);

A.A. 2015-2021:

Characterization and remediation of contaminated sites for the degree course in:

1. GERIT (Management of Natural and Anthropic Risks) (Master's degree course);
2. CHEMISTRY - Environmental-Industrial and Analytical-Biological (Master's degree course);

During the A.A. 2002-2003, given the needs of the Analytical Chemistry sector, he carried out tutoring activities for students in thesis and doctoral students and integrated tasks within the course of Analytical Chemistry Laboratory; Instrumental Analytical Chemistry Laboratory; Analytical Chemistry Laboratory IV.

During the A.A. 2003-2004, you have carried out tutoring activities for students in thesis and doctoral students and supplementary tasks within the courses of the Laboratory of Chemical

Analysis of Real Samples; Instrumental Analytical Chemistry Laboratory; Analytical Chemistry Laboratory IV.

During the A.A. 2004-2008 you have carried out tutoring activities for students in thesis and doctoral students and additional tasks within the courses of Instrumental Analytical Chemistry Laboratory; Analytical Chemistry Laboratory; Environmental Chemistry.

During all the A.A. listed above, you actively participated in examination committees and graduation sessions.

OTHER EDUCATIONAL ACTIVITIES:

He served as an expert in Chemistry and Physics at the State Institute of Professional Education "G. Renda "of Polistena for post-qualification courses III ^ AREA" Surrogate Courses "address" Expert operator in the application of HACCP in the catering sector "from 09/11/1999 to 22/5/2000.

He has also carried out lessons for various Integrated Higher Technical Training (IFTS) courses:

1. "Environmental Monitoring and Protection of the Territory" (project: n.1999.IT.16.1.PO.011 / 3.07 / 9.2.14 / 0105) carried out at the Department of Inorganic Chemistry, Analytical Chemistry and Physical Chemistry "and organized in agreement with the "Nicolò Copernico" State Industrial Technical Institute of Barcellona Pozzo di Gotto (ME); during the A.Y. 2003/2004
2. "Person in charge of managing controlled landfills" Project no. 386 L.R. 27/91 carried out at the ECAP of Messina; during the A.Y. 2004-2005;
3. "Higher Technician of Restoration Techniques" (project: 1999.IT.16.1. PO.011 / 3.07 / 9.2.14 / 0284) carried out at the Technical Institute "E. Basile "of Messina; during the A.Y. 2004-2005;
4. "Experts in air monitoring" (project: 1999.IT.16.1. PO.011 / 3.02 / 7.2.14 / 725) carried out at the college of surveyors of Messina, during the A.Y. 2006-2007;
5. "Higher technician for the monitoring and management of the territory and the environment" (project: MIS 5.1.2006.28) carried out at the Technical Institute "L. Da Vinci "of Milazzo (ME); during the A.Y. 2006-2007;
6. "Higher technician for the monitoring and management of the territory and the environment" (project: 1999.IT.16.1PO.011 / 3.07 / 9.2.14 / 0390) carried out at the "E. Majorana "of Milazzo (ME); during the A.Y. 2007-2008.
7. «Tiziano Granata» Summer School in Forensic Geology & Environmental Crimes III edition (2018) where he taught for a total of 8 hours and held the role of Deputy Director.
8. Appointment of Judicial Police Auxiliary for criminal proceedings 4844/2017 R.G.N.R. of the Public Prosecutor's Office of Messina relating to a USW landfill.
9. Appointment of CT (technical consultant for the public Ministry) for criminal proceedings 6206/18 R.G.N.R. relating to a landfill MSW.
10. Member of the CTS (Scientific Technical Committee) and Professor of the II level University Master in Scientific Investigations in the forensic field of the University of Messina. A.A. 2016

11. Speaker on the topic: "The chemist's gaze on microplastics" at the Order of Doctors of Messina as part of the UNESCO week for sustainability education. Messina 29 November 2018.
12. Keynote by invitation to the XXVII National Congress of the Analytical Chemistry Division of the Italian Chemical Society (SCI) Bologna 16-20 September 2018 entitled: Use of GantrezTM copolymers as potential chelating agent for the selective sequestration of metal ions. Studies of the interactions in aqueous solution at different ionic strengths and temperatures. KN5.
13. «Tiziano Granata» Summer School in Forensic Geology & Environmental Crimes IV edition (2019) where he taught for a total of 6 hours and held the role of Deputy Director.
14. Academic Tutor for n. 2 trainees in the context of Avviso no. 26/2018 for the activation of paths to strengthen the employability of young graduates in the regional public administration - operational program of the Sicilian region p.o. fse 2014/2020 Sicilian region. cip 2014.it.05.sfop.01 4/1 / 8.5 / 9.2.02 / 0002 cup j48i19000010009.

SCIENTIFIC ACTIVITY

His research activity concerns the study of:

1. speciation of highly charged electrolytes: acid-base properties and complexing capacities with respect to various classes of organic and inorganic ligands;
2. modeling of the separation of linear and substituted amines by HPLC;
3. speciation of UO₂²⁺ in different ionic media, interaction with low molecular weight carboxylic acids, and formation of hetero-metallic hydrolytic species;
4. determination of the solubilities and activity coefficients of classes of organic ligands in various ionic media;
5. determination of the specific ionic interaction parameters of various classes of ligands in solutions containing different electrolytes of supporting various ionic strengths and temperatures.

He is co-author of 108 (one hundred and eight) scientific contributions published in international journals, and of over 87 (eighty-seven) communications at national and international conferences.

He has presented the results of his research at national and international conferences.

The research activity was carried out in collaboration with researchers from other Italian and foreign universities (Messina, Palermo, Turin, Rome, Reggio Calabria, Miami, Melbourne (USA), La Coruna (Spain)), Kumasi (Ghana), Vila Real and Lisbon (Portugal), various CNR institutes.

EDITORIAL COMMITTEES

1. He was editor in chief for Journal of Chemistry for the special volume: "Chemical Speciation of Elements in Natural Systems: Sources, Poisoning, and Remediation";

2. Since June 2016 he has been a member of the Editorial Advisory Board of the journal Current Clinical Pharmacology;
3. Since June 2016 he has been a member of the Editorial Advisory Board of the Frontiers in Chemistry magazine;
4. Since 2017 he has been a member of the Editorial Advisory Board of the Analytics magazine;
5. Since 2017 he has been a member of the Editorial Advisory Board of the Current Analytic Chemistry journal;
6. Since April 2018 he has been a member of the Editorial Advisory Board of the Molecules magazine;
7. Guest Editor for a special issue on the Molecules magazine entitled: Chemical Speciation of Organic and Inorganic components of Environmental and Biological Interest in Natural Fluids: Behavior, Interaction and Sequestration;
8. Author of the book chapter: F. Crea, C. Foti, D. Milea, and S. Sammartano, in "Cadmium: From Toxicity to Essentiality", Vol. 11 of 'Metal Ions in Life Sciences', A. Sigel, H. Sigel, RKO Sigel, Eds. ; Springer Science + Business Media B.V., Dordrecht, 2013, 63-83;
9. Author of the book chapter: Alkali Metal Ion Complexes with Phosphates, Nucleotides, Amino Acids, and Related Ligands of Biological Relevance. Their Properties in Solution. F. Crea, C. De Stefano, C. Foti, G. Lando, D. Milea and S. Sammartano.

A. Sigel, H. Sigel, and R. K. O. Sigel, The Alkali Metal Ions: Their Role for Life Metal Ions in Life Sciences 16 (2016) 133-166 DOI: 10.1007 / 978-3-319-21756_5.

Funded research programs

- FIRB2001 RBAU01HLFX_004 – Speciazione, caratterizzazione e proprietà fotochimiche della sostanza organica ed inorganica presente nell'acqua di mare
- Research agreement for speciation studies with the multinational company Procter&Gamble, from 2008-
 - PRIN 2010 prot: 20104AEL92_001: Multiple equilibria in natural and biological fluids: from speciation to selective sequestration
 - 2015 Prot. 2015MP34H3: Multiple equilibria in natural and biological fluids: from speciation to selective sequestering
 - ARCADIA - smARt materials for landfill leaChAte remeDIAtion" for the Research and Mobility program, 2017
 - Fund for basic research activities (FFABR) University of Messina, 2020

Scientific publication

Crea, F., De Robertis, A., De Stefano, C., Sammartano, S., Gianguzza, A., Piazzese, D.
Binding of acrylic and sulphonic polyanions by open-chain polyammonium cations
(2001) *Talanta*, 53 (6), pp. 1241-1248.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0035896234&doi=10.1016%2fS0039-9140%2800%2900617-2&partnerID=40&md5=1ac35d3b511d8b1467a19656b38ce115>
DOI: 10.1016/S0039-9140(00)00617-2

Crea, F., De Robertis, A., De Stefano, C.
Modelling the separation of amines by high performance liquid chromatography I. Linear diamines $\text{NH}_2(\text{CH}_2)_n\text{NH}_2$ ($n = 2-10$)
(2001) *Analytica Chimica Acta*, 436 (2), pp. 333-342.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0035849638&doi=10.1016%2fS0003-2670%2801%2900959-X&partnerID=40&md5=406431fc59aceecc38d2fe2abd749860>
DOI: 10.1016/S0003-2670(01)00959-X

Crea, F., De Stefano, C., Gianguzza, A., Piazzese, D., Sammartano, S.
Speciation of poly-amino carboxylic compounds in seawater
(2003) *Chemical Speciation and Bioavailability*, 15 (3), pp. 75-86.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-3242709729&doi=10.3184%2f095422903782775190&partnerID=40&md5=43b177de158f1ed70c43707f05ef5ba2>
DOI: 10.3184/095422903782775190
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Crea, F., De Robertis, A., De Stefano, C.
Evaluation of behaviour of linear monoamines $\text{CH}_3-(\text{CH}_2)_{n-1}-\text{NH}_2$ ($n=1-6$) in ion chromatography
(2003) *Analytica Chimica Acta*, 477 (1), pp. 41-48.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0037467592&doi=10.1016%2fS0003-2670%2802%2901408-3&partnerID=40&md5=066f45cbe298602b52f3b09bbd65bac8>
DOI: 10.1016/S0003-2670(02)01408-3

Crea, F., De Robertis, A., Sammartano, S.
Dioxouranium-carboxylate complexes. §Formation and stability of acetate species at different ionic strengths in NaCl_{aq}
(2003) *Annali di Chimica*, 93 (12), pp. 1027-1035.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-2042427522&partnerID=40&md5=4efa9eed05e3d7a8f80edf9395caec8a>

Crea, F., D'Ascenzo, G., De Robertis, A., Materazzi, S., Sammartano, S.
The formation of sparingly soluble species of Ca^{2+} with carboxylic ligands: Speciation and thermoanalysis
(2003) *Talanta*, 61 (5), pp. 611-620.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0242581567&doi=10.1016%2fS0039-9140%2803%2900331-X&partnerID=40&md5=56fa0a8e4cb756d60356b9ec753c80d3>
DOI: 10.1016/S0039-9140(03)00331-X

Crea, F., De Robertis, A., Giuffrè, O.

The Retention of Some Open-Chain Diamines on a Strong Cation-Exchange Resin in Ion Chromatography as a Function of Their Structure

(2004) *Journal of Chromatographic Science*, 42 (3), pp. 161-166.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1842487577&doi=10.1093%2fchromsci%2f42.3.161&partnerID=40&md5=2a4531415faec7a665a5be6abc9c8d05)

[1842487577&doi=10.1093%2fchromsci%2f42.3.161&partnerID=40&md5=2a4531415faec7a665a5be6abc9c8d05](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1842487577&doi=10.1093%2fchromsci%2f42.3.161&partnerID=40&md5=2a4531415faec7a665a5be6abc9c8d05)

DOI: 10.1093/chromsci/42.3.161

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Crea, F., Crea, P., De Robertis, A., Sammartano, S.

Speciation of phytate ion in aqueous solution. Characterisation of Ca-phytate sparingly soluble species

(2004) *Chemical Speciation and Bioavailability*, 16 (1-2), pp. 53-59.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2642587608&doi=10.3184%2f095422904782775090&partnerID=40&md5=ff768c2c8517f7aacd3dbbc79e706d5)

[2642587608&doi=10.3184%2f095422904782775090&partnerID=40&md5=ff768c2c8517f7aacd3dbbc79e706d5](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2642587608&doi=10.3184%2f095422904782775090&partnerID=40&md5=ff768c2c8517f7aacd3dbbc79e706d5)

DOI: 10.3184/095422904782775090

Crea, F., De Stefano, C., Giuffrè, O., Sammartano, S.

Ionic strength dependence of protonation constants of N-alkyl substituted open chain diamines in NaClaq

(2004) *Journal of Chemical and Engineering Data*, 49 (1), pp. 109-115.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1642479211&doi=10.1021%2fje0301949&partnerID=40&md5=2334b594da3a3895593b6c7d1d92fcb1)

[1642479211&doi=10.1021%2fje0301949&partnerID=40&md5=2334b594da3a3895593b6c7d1d92fcb1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1642479211&doi=10.1021%2fje0301949&partnerID=40&md5=2334b594da3a3895593b6c7d1d92fcb1)

DOI: 10.1021/je0301949

Crea, F., De Stefano, C., Gianguzza, A., Piazzese, D., Sammartano, S.

Chemical speciation of organic matter in natural waters. Interaction of nucleotide 5' mono-, di- and triphosphates with major components of seawater

(2004) *Chemical Speciation and Bioavailability*, 16 (1-2), pp. 1-8.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2642546757&doi=10.3184%2f095422904782775072&partnerID=40&md5=73db8dcfd92d2e03d0ddf64fa056775f)

[2642546757&doi=10.3184%2f095422904782775072&partnerID=40&md5=73db8dcfd92d2e03d0ddf64fa056775f](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2642546757&doi=10.3184%2f095422904782775072&partnerID=40&md5=73db8dcfd92d2e03d0ddf64fa056775f)

DOI: 10.3184/095422904782775072

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Crea, F., De Robertis, A., De Stefano, C., Foti, C., Sammartano, S.

Binding of phosphate, pyrophosphate, and hexacyanoferrate(II) by fully N-methyl substituted polyammonium cations in aqueous solution

(2004) *Journal of Chemical and Engineering Data*, 49 (1), pp. 133-137.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1642438170&doi=10.1021%2fje034133m&partnerID=40&md5=efe19dae756458d810cd4821b256e435)

[1642438170&doi=10.1021%2fje034133m&partnerID=40&md5=efe19dae756458d810cd4821b256e435](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1642438170&doi=10.1021%2fje034133m&partnerID=40&md5=efe19dae756458d810cd4821b256e435)

DOI: 10.1021/je034133m

Crea, F., De Robertis, A., Sammartano, S.

Medium and alkyl chain effects on the protonation of dicarboxylates in NaCl(aq) and Et₄N⁺I⁻(aq) at 25°C

(2004) *Journal of Solution Chemistry*, 33 (5), pp. 499-528.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-4344612041&doi=10.1023%2fB%3aJOSL.0000037773.15363.1f&partnerID=40&md5=3c8e37a325d5ece534754fab33f2ca37)

[4344612041&doi=10.1023%2fB%3aJOSL.0000037773.15363.1f&partnerID=40&md5=3c8e37a325d5ece534754fab33f2ca37](https://www.scopus.com/inward/record.uri?eid=2-s2.0-4344612041&doi=10.1023%2fB%3aJOSL.0000037773.15363.1f&partnerID=40&md5=3c8e37a325d5ece534754fab33f2ca37)

DOI: 10.1023/B:JOSL.0000037773.15363.1f

Crea, F., Crea, P., De Stefano, C., Giuffrè, O., Pettignano, A., Sammartano, S.

Thermodynamic parameters for the protonation of poly(allylamine) in concentrated LiCl(aq) and NaCl(aq)

(2004) *Journal of Chemical and Engineering Data*, 49 (3), pp. 658-663.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2642527076&doi=10.1021%2fje0342264&partnerID=40&md5=80e7bb5ca9f2c1bb8709b7f33183ea56)

[2642527076&doi=10.1021%2fje0342264&partnerID=40&md5=80e7bb5ca9f2c1bb8709b7f33183ea56](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2642527076&doi=10.1021%2fje0342264&partnerID=40&md5=80e7bb5ca9f2c1bb8709b7f33183ea56)

DOI: 10.1021/je0342264

Crea, F., De Stefano, C., Pettignano, A., Sammartano, S.

Hydrolysis of dioxouranium(VI): A calorimetric study in NaCl(aq) and NaClO₄(aq) at 25°C

(2004) *Thermochimica Acta*, 414 (2), pp. 185-189.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2042509042&doi=10.1016%2fj.tca.2003.12.018&partnerID=40&md5=f0e9bc09b352e306a5bc33a26c54e233)

[2042509042&doi=10.1016%2fj.tca.2003.12.018&partnerID=40&md5=f0e9bc09b352e306a5bc33a26c54e233](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2042509042&doi=10.1016%2fj.tca.2003.12.018&partnerID=40&md5=f0e9bc09b352e306a5bc33a26c54e233)

DOI: 10.1016/j.tca.2003.12.018

Crea, F., De Stefano, C., Millero, F.J., Sharma, V.K.

Dissociation constants for citric acid in NaCl and KCl solutions and their mixtures at 25°C

(2004) *Journal of Solution Chemistry*, 33 (11), pp. 1349-1366.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-13744249233&doi=10.1007%2fs10953-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-13744249233&doi=10.1007%2fs10953-004-1046-z&partnerID=40&md5=659b13dfebcdfaa14406ef1a391a42df)

[004-1046-z&partnerID=40&md5=659b13dfebcdfaa14406ef1a391a42df](https://www.scopus.com/inward/record.uri?eid=2-s2.0-13744249233&doi=10.1007%2fs10953-004-1046-z&partnerID=40&md5=659b13dfebcdfaa14406ef1a391a42df)

DOI: 10.1007/s10953-004-1046-z

Crea, F., De Robertis, A., Sammartano, S.

Chromatographic behavior of open-chain polyamines NH₂-(CH₂)₂-[NH-(CH₂)₂]_n-NH₂ and their quantitative determination in sea water by high-performance ion-exchange chromatography

(2005) *Journal of Chromatographic Science*, 43 (7), pp. 342-347.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33644663972&doi=10.1093%2fchromsci%2f43.7.342&partnerID=40&md5=22fdd75667ca1ed8095634d1ec77fddd)

[33644663972&doi=10.1093%2fchromsci%2f43.7.342&partnerID=40&md5=22fdd75667ca1ed8095634d1ec77fddd](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33644663972&doi=10.1093%2fchromsci%2f43.7.342&partnerID=40&md5=22fdd75667ca1ed8095634d1ec77fddd)

DOI: 10.1093/chromsci/43.7.342

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Crea, F., Milea, D., Sammartano, S.

Enhancement of hydrolysis through the formation of mixed hetero-metal species

(2005) *Talanta*, 65 (1), pp. 229-238.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-8344249568&doi=10.1016%2fj.talanta.2004.06.014&partnerID=40&md5=11060cdddd2c15c574a79f02a0ad3403)

[8344249568&doi=10.1016%2fj.talanta.2004.06.014&partnerID=40&md5=11060cdddd2c15c574a79f02a0ad3403](https://www.scopus.com/inward/record.uri?eid=2-s2.0-8344249568&doi=10.1016%2fj.talanta.2004.06.014&partnerID=40&md5=11060cdddd2c15c574a79f02a0ad3403)

DOI: 10.1016/j.talanta.2004.06.014

Battaglia, G., Crea, F., Crea, P., Sammartano, S.

The protonation of polyacrylate in seawater. Analysis of concentration effects

(2005) *Annali di Chimica*, 95 (9-10), pp. 643-656.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-27844447930&doi=10.1002%2fadic.200590075&partnerID=40&md5=6f4a55324f267ae85fc66d211b8cb2e7)

[27844447930&doi=10.1002%2fadic.200590075&partnerID=40&md5=6f4a55324f267ae85fc66d211b8cb2e7](https://www.scopus.com/inward/record.uri?eid=2-s2.0-27844447930&doi=10.1002%2fadic.200590075&partnerID=40&md5=6f4a55324f267ae85fc66d211b8cb2e7)

DOI: 10.1002/adic.200590075

Bretti, C., Crea, F., Foti, C., Sammartano, S.

Solubility and activity coefficients of acidic and basic nonelectrolytes in aqueous salt solutions. 1.

Solubility and activity coefficients of o-phthalic acid and L-cystine in NaCl(aq), (CH₃)₄NCl(aq),

and (C₂H₅)₄Ni(aq) at different ionic strengths and at t = 25 °C

(2005) *Journal of Chemical and Engineering Data*, 50 (5), pp. 1761-1767.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-25644450266&doi=10.1021%2fje0502039&partnerID=40&md5=265f75cf55cdb1bec0faf0a928625d72)

[25644450266&doi=10.1021%2fje0502039&partnerID=40&md5=265f75cf55cdb1bec0faf0a928625d72](https://www.scopus.com/inward/record.uri?eid=2-s2.0-25644450266&doi=10.1021%2fje0502039&partnerID=40&md5=265f75cf55cdb1bec0faf0a928625d72)

DOI: 10.1021/je0502039

Crea, F., Milea, D., Sammartano, S.

Enhancement of hydrolysis through the formation of mixed hetero-metal species:

Dioxouranium(VI) - cadmium(II) mixtures

(2005) *Annali di Chimica*, 95 (11-12), pp. 767-778.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-28844488835&doi=10.1002%2fadic.200590090&partnerID=40&md5=29239aaeff67b17658fdaefd4d46191)

[28844488835&doi=10.1002%2fadic.200590090&partnerID=40&md5=29239aaeff67b17658fdaefd4d46191](https://www.scopus.com/inward/record.uri?eid=2-s2.0-28844488835&doi=10.1002%2fadic.200590090&partnerID=40&md5=29239aaeff67b17658fdaefd4d46191)

DOI: 10.1002/adic.200590090

Bretti, C., Crea, F., Rey-Castro, C., Sammartano, S.

Interaction of acrylic-maleic copolymers with H⁺, Na⁺, Mg²⁺ and Ca²⁺: Thermodynamic parameters and their dependence on medium

(2005) *Reactive and Functional Polymers*, 65 (3), pp. 329-342.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-28044460532&doi=10.1016%2fj.reactfunctpolym.2005.07.005&partnerID=40&md5=31949ba0d1930fe0dc7822bf61416575)

[28044460532&doi=10.1016%2fj.reactfunctpolym.2005.07.005&partnerID=40&md5=31949ba0d1930fe0dc7822bf61416575](https://www.scopus.com/inward/record.uri?eid=2-s2.0-28044460532&doi=10.1016%2fj.reactfunctpolym.2005.07.005&partnerID=40&md5=31949ba0d1930fe0dc7822bf61416575)

DOI: 10.1016/j.reactfunctpolym.2005.07.005

Crea, F., De Stefano, C., Gianguzza, A., Piazzese, D., Sammartano, S.

Protonation of carbonate in aqueous tetraalkylammonium salts at 25 °C

(2006) *Talanta*, 68 (4), pp. 1102-1112.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-30644469166&doi=10.1016%2fj.talanta.2005.07.025&partnerID=40&md5=a9f66526364f643c2ba041f2979e73d4)

[30644469166&doi=10.1016%2fj.talanta.2005.07.025&partnerID=40&md5=a9f66526364f643c2ba041f2979e73d4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-30644469166&doi=10.1016%2fj.talanta.2005.07.025&partnerID=40&md5=a9f66526364f643c2ba041f2979e73d4)

DOI: 10.1016/j.talanta.2005.07.025

Crea, F., Giacalone, A., Gianguzza, A., Piazzese, D., Sammartano, S.

Modelling of natural and synthetic polyelectrolyte interactions in natural waters by using SIT, Pitzer and Ion Pairing approaches

(2006) *Marine Chemistry*, 99 (1-4), pp. 93-105.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-32844463449&doi=10.1016%2fj.marchem.2005.03.012&partnerID=40&md5=bc20884396235b07171de788313eb099)

[32844463449&doi=10.1016%2fj.marchem.2005.03.012&partnerID=40&md5=bc20884396235b07171de788313eb099](https://www.scopus.com/inward/record.uri?eid=2-s2.0-32844463449&doi=10.1016%2fj.marchem.2005.03.012&partnerID=40&md5=bc20884396235b07171de788313eb099)

DOI: 10.1016/j.marchem.2005.03.012

Berto, S., Crea, F., Daniele, P.G., De Stefano, C., Prenesti, E., Sammartano, S.
Dioxouranium(VI) - carboxylate complexes. Interaction with dicarboxylic acids in aqueous solution: Speciation and structure
(2006) *Annali di Chimica*, 96 (7-8), pp. 399-420.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33746603618&doi=10.1002%2fadic.200690042&partnerID=40&md5=fe6459a059c2644f9b8d47847a176865>
DOI: 10.1002/adic.200690042

Bretti, C., Crea, F., Foti, C., Sammartano, S.
Solubility and activity coefficients of acidic and basic nonelectrolytes in aqueous salt solutions. 2. Solubility and activity coefficients of suberic, azelaic, and sebacic acids in NaCl(aq), (CH₃)₄NCl(aq), and (C₂H₅)₄NI(aq) at Different Ionic Strengths and at t = 25 °C
(2006) *Journal of Chemical and Engineering Data*, 51 (5), pp. 1660-1667.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33749830962&doi=10.1021%2fje060132t&partnerID=40&md5=06fbb450beecc51cb299125cf73b65e8>
DOI: 10.1021/je060132t

Crea, F., De Robertis, A., De Stefano, C., Sammartano, S.
Dioxouranium(VI)-carboxylate complexes. Interaction of UO₂²⁺ with 1,2,3,4,5,6-benzenehexacarboxylate (mellitate) in $0 \leq I(\text{NaCl aq}) \leq 1.0 \text{ mol}\cdot\text{L}^{-1}$
(2007) *Journal of Solution Chemistry*, 36 (4), pp. 479-496.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34247630138&doi=10.1007%2fs10953-007-9124-7&partnerID=40&md5=ad4db0cd240b40d6d1a6d6acfb54b39b>
DOI: 10.1007/s10953-007-9124-7

Crea, F., Foti, C., De Stefano, C., Sammartano, S.
SIT parameters for 1:2 electrolytes and correlation with Pitzer coefficients
(2007) *Annali di Chimica*, 97 (1-2), pp. 85-95.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33847316450&doi=10.1002%2fadic.200690088&partnerID=40&md5=ca246fd66b391cef0cbe36a02fc89476>
DOI: 10.1002/adic.200690088
OPEN ACCESS: All Open Access, Bronze

Crea, F., Crea, P., De Robertis, A., Sammartano, S.
Thermodynamic study for the protonation of branched poly(ethylenimine) in NaCl(aq) and its dependence on ionic strength
(2007) *Journal of Chemical and Engineering Data*, 52 (1), pp. 279-285.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33847075843&doi=10.1021%2fje060388z&partnerID=40&md5=d84dde2c49bb9b24fb67a25c8cf95bc5>
DOI: 10.1021/je060388z

Crea, F., Crea, P., Milea, D., Porcino, N., Sammartano, S.
Speciation of phytate ion in aqueous solution. Trimethyltin(IV) interactions in self medium
(2007) *Annali di Chimica*, 97 (8), pp. 635-645.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34548185132&doi=10.1002%2fadic.200790048&partnerID=40&md5=aece0087f842376a712f581fc8c0e64d>
DOI: 10.1002/adic.200790048

Crea, F., De Robertis, A., De Stefano, C., Sammartano, S.
Dioxouranium(VI)-carboxylate complexes. A calorimetric and potentiometric investigation of interaction with oxalate at infinite dilution and in NaCl aqueous solution at $I = 1.0 \text{ mol L}^{-1}$ and $T = 25 \text{ }^\circ\text{C}$

(2007) *Talanta*, 71 (2), pp. 948-963.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33846385663&doi=10.1016%2fj.talanta.2006.05.070&partnerID=40&md5=57436e38b74883f2dce509ee21eea956>

DOI: 10.1016/j.talanta.2006.05.070

Crea, F., De Stefano, C., Milea, D., Sammartano, S.
Dioxouranium(vi)-carboxylate complexes. Speciation of UO_2^{2+} -1,2,3-propanetricarboxylate system in NaCl_{aq} at different ionic strengths and at $T = 25 \text{ }^\circ\text{C}$

(2007) *Annali di Chimica*, 97 (3-4), pp. 163-175.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34147218837&doi=10.1002%2fadic.200790002&partnerID=40&md5=5be530fac1462dfa03eb9160621dd995>

DOI: 10.1002/adic.200790002

Bretti, C., Cigala, R.M., Crea, F., Sammartano, S.
Mixing effects on the protonation of some polycarboxylates in NaCl_{aq} + KCl_{aq} at different ionic strengths

(2007) *Talanta*, 72 (3), pp. 1059-1065.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34247392367&doi=10.1016%2fj.talanta.2006.12.044&partnerID=40&md5=a4295e444528035eaba115e9a04f63cc>

DOI: 10.1016/j.talanta.2006.12.044

Crea, F., De Robertis, A., De Stefano, C., Sammartano, S.
Erratum: Dioxouranium(VI)-carboxylate complexes. Interaction of UO_2^{2+} with 1,2,3,4,5,6-benzenehexacarboxylate (mellitate) in $0 \leq I(\text{NaCl}_{aq}) \leq 1.0 \text{ mol} \cdot \text{L}^{-1}$ (*Journal of Solution Chemistry*
DOI: 10.1007/s10953-007-9124-7)

(2007) *Journal of Solution Chemistry*, 36 (6), p. 833.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34249749333&doi=10.1007%2fs10953-007-9140-7&partnerID=40&md5=187d1f1e6b9d032a8cd9de87c58217b8>

DOI: 10.1007/s10953-007-9140-7

OPEN ACCESS: All Open Access, Bronze

Gattuso, G., Pappalardo, A., Parisi, M.F., Pisagatti, I., Crea, F., Liantonio, R., Metrangolo, P., Navarrini, W., Resnati, G., Pilati, T., Pappalardo, S.
Dipyridinocalixcrown/diodoperfluorocarbon binary host systems for CsI: structural studies and fluorine phase extraction of caesium

(2007) *Tetrahedron*, 63 (23), pp. 4951-4958.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34247570408&doi=10.1016%2fj.tet.2007.03.136&partnerID=40&md5=ea9f3c8ad49618ad52c3ce814ebe7964>

DOI: 10.1016/j.tet.2007.03.136

Crea, F., De Stefano, C., Foti, C., Sammartano, S.
SIT parameters for the dependence of (poly)carboxylate activity coefficients on ionic strength in (C₂H₄)₄NCl_{aq} (0 i $1.2 \text{ mol}\cdot\text{kg}^{-1}$) and (CH₃)₄NCl_{aq} (0 i $3.9 \text{ mol}\cdot\text{kg}^{-1}$) in the temperature range 278 K T 328 K and correlation with pitzer parameters
(2007) Journal of Chemical and Engineering Data, 52 (6), pp. 2195-2203.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-36949009653&doi=10.1021%2fje700223r&partnerID=40&md5=b2fac450a7f825fac6e1ccc5e29a55cc>
DOI: 10.1021/je700223r

Bretti, C., Cigala, R.M., Crea, F., Foti, C., Sammartano, S.
Solubility and activity coefficients of acidic and basic non-electrolytes in aqueous salt solutions. 3. Solubility and activity coefficients of adipic and pimelic acids in NaCl(aq), (CH₃)₄NCl(aq) and (C₂H₅)₄NI(aq) at different ionic strengths and at $t = 25 \text{ }^\circ\text{C}$
(2008) Fluid Phase Equilibria, 263 (1), pp. 43-54.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-36849006965&doi=10.1016%2fj.fluid.2007.09.018&partnerID=40&md5=b063d6c2dabe327d20bb1ba5188e7714>
DOI: 10.1016/j.fluid.2007.09.018

Battaglia, G., Cigala, R.M., Crea, F., Sammartano, S.
Solubility and acid-base properties of ethylenediaminetetraacetic acid in aqueous NaCl solution at $0 \leq I \leq 6 \text{ mol}\cdot\text{kg}^{-1}$ and $T = 298.15 \text{ K}$
(2008) Journal of Chemical and Engineering Data, 53 (2), pp. 363-367.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-41749084599&doi=10.1021%2fje700391c&partnerID=40&md5=f16887034244be00c2e124f04669c5e8>
DOI: 10.1021/je700391c

Bretti, C., Crea, F., Giuffrè, O., Sammartano, S.
The effect of different aqueous ionic media on the acid-base properties of some open chain polyamines
(2008) Journal of Solution Chemistry, 37 (2), pp. 183-201.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-37549056611&doi=10.1007%2fs10953-007-9229-z&partnerID=40&md5=5bd98d1f95bfc2060d3664a2462b7f0f>
DOI: 10.1007/s10953-007-9229-z

Crea, F., Crea, P., De Stefano, C., Milea, D., Sammartano, S.
Speciation of phytate ion in aqueous solution. Protonation in CsCl_{aq} at different ionic strengths and mixing effects in LiCl_{aq} + CsCl_{aq}
(2008) Journal of Molecular Liquids, 138 (1-3), pp. 76-83.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-37249036706&doi=10.1016%2fj.molliq.2007.08.024&partnerID=40&md5=64d072363ee96299c4873f074e61c8b4>
DOI: 10.1016/j.molliq.2007.08.024

Crea, F., De Stefano, C., Milea, D., Sammartano, S.
Formation and stability of phytate complexes in solution
(2008) Coordination Chemistry Reviews, 252 (10-11), pp. 1108-1120.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-41949111481&doi=10.1016%2Fj.ccr.2007.09.008&partnerID=40&md5=bfd631070e0ce36db688f7f5c0292ae7>
DOI: 10.1016/j.ccr.2007.09.008

Crea, F., Foti, C., Sammartano, S.
Sequestering ability of polycarboxylic ligands towards dioxouranium(VI)
(2008) *Talanta*, 75 (3), pp. 775-785.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-41849105436&doi=10.1016%2Fj.talanta.2007.12.009&partnerID=40&md5=19ef1ca98de175d0a83e9a327969f246>
DOI: 10.1016/j.talanta.2007.12.009

Crea, F., De Stefano, C., Porcino, N., Sammartano, S.
Sequestering ability of phytate towards protonated BPEI and other polyammonium cations in aqueous solution
(2008) *Biophysical Chemistry*, 136 (2-3), pp. 108-114.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-46249111875&doi=10.1016%2Fj.bpc.2008.05.001&partnerID=40&md5=31280d3f3ffbd4085a264285d3f206da>
DOI: 10.1016/j.bpc.2008.05.001
OPEN ACCESS: All Open Access, Green

Rosaria Panuccio, M., Crea, F., Sorgonà, A., Cacco, G.
Adsorption of nutrients and cadmium by different minerals: Experimental studies and modelling
(2008) *Journal of Environmental Management*, 88 (4), pp. 890-898.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-47249130874&doi=10.1016%2Fj.jenvman.2007.04.015&partnerID=40&md5=fd6b687e687dbfdb9d729b0e18f226e>
DOI: 10.1016/j.jenvman.2007.04.015

Cigala, R.M., Crea, F., Sammartano, S.
Mixing effects on the protonation of polyacrylate in LiCl/KCl aqueous solutions at different ionic strengths, $I = 1$ to 3.5 mol L^{-1} , at $T = 298.15 \text{ K}$
(2008) *Journal of Molecular Liquids*, 143 (2-3), pp. 129-133.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-53149109315&doi=10.1016%2Fj.molliq.2008.07.001&partnerID=40&md5=6c39f50141f687e6c98d7bf35b932b45>
DOI: 10.1016/j.molliq.2008.07.001

Bretti, C., Crea, F., De Stefano, C., Sammartano, S.
Solubility and activity coefficients of 2,2'-bipyridyl, 1,10-phenanthroline and 2,2',6',2''-terpyridine in NaCl(aq) at different ionic strengths and $T = 298.15 \text{ K}$
(2008) *Fluid Phase Equilibria*, 272 (1-2), pp. 47-52.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-52349104091&doi=10.1016%2Fj.fluid.2008.07.010&partnerID=40&md5=9a9a5100170c4200c107f2555a4dab3e>
DOI: 10.1016/j.fluid.2008.07.010

Crea, F., De Stefano, C., Milea, D., Sammartano, S.

Speciation of phytate ion in aqueous solution. Thermodynamic parameters for zinc(II) sequestration at different ionic strengths and temperatures

(2009) *Journal of Solution Chemistry*, 38 (1), pp. 115-134.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-57349101644&doi=10.1007%2fs10953-008-9357-0&partnerID=40&md5=c8f975efb909a6d38c5c81a3a7188d25>

DOI: 10.1007/s10953-008-9357-0

Battaglia, G., Crea, F., Crea, P., De Stefano, C., Sammartano, S.

Medium effect on the acid-base properties of branched polyethylenimine in different aqueous electrolyte solutions

(2009) *Journal of Chemical and Engineering Data*, 54 (2), pp. 502-510.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-65249177077&doi=10.1021%2fje800486z&partnerID=40&md5=cf24ef6459f4107487d0c30b5e51147a>

147a

DOI: 10.1021/je800486z

Crea, F., De Stefano, C., Gianguzza, A., Pettignano, A., Piazzese, D., Sammartano, S.

Acid-base properties of synthetic and natural poly electrolytes: Experimental results and models for the dependence on different aqueous media

(2009) *Journal of Chemical and Engineering Data*, 54 (2), pp. 589-605.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-65249148958&doi=10.1021%2fje800518j&partnerID=40&md5=e6e396b64dd87b1539d9267e5e7c5a84>

5a84

DOI: 10.1021/je800518j

Cigala, R.M., Crea, F., Stefano, C.D., Sammartano, S.

Mixing effects on the protonation of polycarboxylates. Protonation of benzenhexacarboxylate in LiCl-KCl, NaCl-KCl, NaCl-LiCl, and LiCl-CsCl aqueous solutions at $I = 1 \text{ mol} \cdot \text{L}^{-1}$ and $T = 298.15 \text{ K}$

(2009) *Journal of Chemical and Engineering Data*, 54 (7), pp. 2137-2139.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-67849083086&doi=10.1021%2fje9000763&partnerID=40&md5=7f703b831a3e22e7435cb3eee452906b>

906b

DOI: 10.1021/je9000763

Cataldo, S., Crea, F., Gianguzza, A., Pettignano, A., Piazzese, D.

Solubility and acid-base properties and activity coefficients of chitosan in different ionic media and at different ionic strengths, at $T = 25 \text{ }^\circ\text{C}$

(2009) *Journal of Molecular Liquids*, 148 (2-3), pp. 120-126.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-68449086717&doi=10.1016%2fj.molliq.2009.07.006&partnerID=40&md5=cb97fa4c6959f0856e284857af944116>

84857af944116

DOI: 10.1016/j.molliq.2009.07.006

Berto, S., Crea, F., Daniele, P.G., De Stefano, C., Prenesti, E., Sammartano, S.

Sequestering ability of Dicarboxylic ligands towards dioxouranium(VI) in NaCl and KNO₃ aqueous solutions at $T=298.15 \text{ K}$

(2009) *Journal of Solution Chemistry*, 38 (10), pp. 1343-1356.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-70349857946&doi=10.1007%2fs10953-009-9452-x&partnerID=40&md5=900047c12dbed2cb95f424cb2d48319a>

DOI: 10.1007/s10953-009-9452-x

Crea, F., De Stefano, C., Manfredi, G., Sammartano, S.
Sequestration of some biogenic amines and poly(allyl)amine by high molecular weight polycarboxylic ligands in aqueous solution
(2010) *Journal of Molecular Liquids*, 151 (2-3), pp. 138-144.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-75549083626&doi=10.1016%2fj.molliq.2009.12.007&partnerID=40&md5=0deb984702ffab8586b464b5ff8b4d67>
DOI: 10.1016/j.molliq.2009.12.007

Crea, F., De Stefano, C., Milea, D., Sammartano, S.
Thermodynamic data for lanthanoid(III) sequestration by phytate at different temperatures
(2010) *Monatshefte fur Chemie*, 141 (5), pp. 511-520.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-77952399584&doi=10.1007%2fs00706-010-0303-7&partnerID=40&md5=62320aa3e71bd39a213d44b2dff0b9d9>
DOI: 10.1007/s00706-010-0303-7

Crea, F., Gianguzza, A., Pettignano, A., Sammartano, S.
Interactions of dioxouranium(VI) with polyamines in aqueous solution
(2010) *Journal of Chemical and Engineering Data*, 55 (9), pp. 3044-3050.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-77956495713&doi=10.1021%2fje901064p&partnerID=40&md5=f0624725803f1e739d55d6e1e7296c77>
DOI: 10.1021/je901064p

Amaglo, N.K., Bennett, R.N., Lo Curto, R.B., Rosa, E.A.S., Lo Turco, V., Giuffrida, A., Curto, A.L., Crea, F., Timpo, G.M.
Profiling selected phytochemicals and nutrients in different tissues of the multipurpose tree *Moringa oleifera* L., grown in Ghana
(2010) *Food Chemistry*, 122 (4), pp. 1047-1054.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-77951937329&doi=10.1016%2fj.foodchem.2010.03.073&partnerID=40&md5=5ae143fd724cd78ae292cb8301da9680>
DOI: 10.1016/j.foodchem.2010.03.073

Cigala, R.M., Crea, F., Lando, G., Milea, D., Sammartano, S.
Solubility and acid-base properties of concentrated phytate in self-medium and in NaCl_{aq} at T = 298.15 K
(2010) *Journal of Chemical Thermodynamics*, 42 (11), pp. 1393-1399.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-77955424197&doi=10.1016%2fj.jct.2010.06.005&partnerID=40&md5=64d35ce7dc4576bd3aa4a383b911731c>
DOI: 10.1016/j.jct.2010.06.005

Cigala, R.M., Crea, F., Stefano, C.D., Lando, G., Milea, D., Sammartano, S.
Electrochemical study on the stability of phytate complexes with Cu²⁺, Pb²⁺, Zn²⁺, and Ni²⁺: A Comparison of Different Techniques †
(2010) *Journal of Chemical and Engineering Data*, 55 (11), pp. 4757-4767.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-78449276762&doi=10.1021%2fje100384f&partnerID=40&md5=6d301e2e382e2a5428dc205c44af3a23>

DOI: 10.1021/je100384f

Berto, S., Crea, F., Daniele, P.G., De Stefano, C., Prenesti, E., Sammartano, S.
Potentiometric and spectrophotometric characterization of the UO_2^{2+} -citrate complexes in aqueous solution, at different concentrations, ionic strengths and supporting electrolytes
(2012) *Radiochimica Acta*, 100 (1), pp. 13-28.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84858233490&doi=10.1524%2fract.2012.1897&partnerID=40&md5=2d1c231e1b08a8b726efd00ee7e660cc>
DOI: 10.1524/ract.2012.1897

Cigala, R.M., Crea, F., De Stefano, C., Lando, G., Manfredi, G., Sammartano, S.
Quantitative study on the interaction of Sn^{2+} and Zn^{2+} with some phosphate ligands, in aqueous solution at different ionic strengths
(2012) *Journal of Molecular Liquids*, 165, pp. 143-153.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84155167649&doi=10.1016%2fj.molliq.2011.11.002&partnerID=40&md5=3afba697bb3541604be8f2147c572e9b>
DOI: 10.1016/j.molliq.2011.11.002

Berto, S., Crea, F., Daniele, P.G., Gianguzza, A., Pettignano, A., Sammartano, S.
Advances in the investigation of dioxouranium(VI) complexes of interest for natural fluids
(2012) *Coordination Chemistry Reviews*, 256 (1-2), pp. 63-81.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-82355173131&doi=10.1016%2fj.ccr.2011.08.015&partnerID=40&md5=4a229097ce45995a27485f4d0f471fe5>
DOI: 10.1016/j.ccr.2011.08.015
OPEN ACCESS: All Open Access, Green

Bretti, C., Crea, F., De Stefano, C., Sammartano, S., Vianelli, G.
Some thermodynamic properties of dl-Tyrosine and dl-Tryptophan. Effect of the ionic medium, ionic strength and temperature on the solubility and acid-base properties
(2012) *Fluid Phase Equilibria*, 314, pp. 185-197.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-83655201259&doi=10.1016%2fj.fluid.2011.10.007&partnerID=40&md5=131427d7b55f57aa4f5f705fa7dd56d7>
DOI: 10.1016/j.fluid.2011.10.007

Bretti, C., Crea, F., De Stefano, C., Sammartano, S., Vianelli, G.
Protonation constants, activity coefficients, and chloride ion pair formation of some aromatic amino-compounds in NaCl aq ($0 \text{ mol} \cdot \text{kg}^{-1} \leq i \leq 3 \text{ mol} \cdot \text{kg}^{-1}$) at $T = 298.15 \text{ K}$
(2012) *Journal of Chemical and Engineering Data*, 57 (6), pp. 1851-1859.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84862276969&doi=10.1021%2fje300359s&partnerID=40&md5=90dea118023d468b0e19bc1723900313>
DOI: 10.1021/je300359s

Cigala, R.M., Crea, F., De Stefano, C., Lando, G., Milea, D., Sammartano, S.
The inorganic speciation of tin(II) in aqueous solution
(2012) *Geochimica et Cosmochimica Acta*, 87, pp. 1-20.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84861190909&doi=10.1016%2fj.gca.2012.03.029&partnerID=40&md5=b5eb1e16bc725d9f41c4ee38b4d0a6fb>

DOI: 10.1016/j.gca.2012.03.029

Crea, F., De Stefano, C., Manfredi, G., Sammartano, S.

Quantitative study of the interaction between ATP and aromatic amines in aqueous solution
(2012) *Journal of Solution Chemistry*, 41 (7), pp. 1240-1253.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84865506668&doi=10.1007%2fs10953-012-9865-9&partnerID=40&md5=c6399f6c3802d0373ff133e91839c2a4>

DOI: 10.1007/s10953-012-9865-9

Cigala, R.M., Crea, F., De Stefano, C., Lando, G., Milea, D., Sammartano, S.

Modeling the acid-base properties of glutathione in different ionic media, with particular reference to natural waters and biological fluids

(2012) *Amino Acids*, 43 (2), pp. 629-648.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84864751719&doi=10.1007%2fs00726-011-1110-0&partnerID=40&md5=d07c1c7dd98946a6213c6c734c19469f>

DOI: 10.1007/s00726-011-1110-0

Cigala, R.M., Crea, F., De Stefano, C., Lando, G., Milea, D., Sammartano, S.

Thermodynamics of binary and ternary interactions in the tin(II)/phytate system in aqueous solutions, in the presence of Cl⁻ or F⁻

(2012) *Journal of Chemical Thermodynamics*, 51, pp. 88-96.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84860154887&doi=10.1016%2fj.jct.2012.02.026&partnerID=40&md5=6de1f3e03579973bfa5b6f3ffccfb4dd>

DOI: 10.1016/j.jct.2012.02.026

Crea, F., Cucinotta, D., De Stefano, C., Milea, D., Sammartano, S., Vianelli, G.

Modeling solubility, acid-base properties and activity coefficients of amoxicillin, ampicillin and (+)6-aminopenicillanic acid, in NaCl(aq) at different ionic strengths and temperatures

(2012) *European Journal of Pharmaceutical Sciences*, 47 (4), pp. 661-677.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866071307&doi=10.1016%2fj.ejps.2012.08.005&partnerID=40&md5=25d6a44053c0fbef8431e75ef0507ae8>

DOI: 10.1016/j.ejps.2012.08.005

Crea, F., Foti, C., Milea, D., Sammartano, S.

Speciation of cadmium in the environment

(2013) *Metal Ions in Life Sciences*, 11, pp. 63-83.

https://www.scopus.com/inward/record.uri?eid=2-s2.0-84900465112&doi=10.1007%2f978-94-007-5179-8_3&partnerID=40&md5=2adce4bfa60f3aa06974082653cf5cf8

DOI: 10.1007/978-94-007-5179-8_3

Crea, F., De Stefano, C., Manfredi, G., Sammartano, S.

Thermodynamic study of the non covalent interactions of phytate with xanthine derivatives and histamine in aqueous solution

(2013) *Journal of Molecular Liquids*, 178, pp. 37-43.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84870653073&doi=10.1016%2fj.molliq.2012.10.043&partnerID=40&md5=2279cbc7dce65d5f35425dc3962dd69a>
DOI: 10.1016/j.molliq.2012.10.043

Cigala, R.M., Crea, F., De Stefano, C., Milea, D., Sammartano, S., Scopelliti, M.
Speciation of tin(II) in aqueous solution: Thermodynamic and spectroscopic study of simple and mixed hydroxocarboxylate complexes
(2013) *Monatshefte fur Chemie*, 144 (6), pp. 761-772.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84877790201&doi=10.1007%2fs00706-013-0961-3&partnerID=40&md5=dbf90ff771ab071e053e398f95a9fa51>
DOI: 10.1007/s00706-013-0961-3

Bretti, C., Crea, F., De Stefano, C., Foti, C., Materazzi, S., Vianelli, G.
Thermodynamic properties of dopamine in aqueous solution. acid-base properties, distribution, and activity coefficients in NaCl aqueous solutions at different ionic strengths and temperatures
(2013) *Journal of Chemical and Engineering Data*, 58 (10), pp. 2835-2847.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84885608187&doi=10.1021%2fje400568u&partnerID=40&md5=ca03e0f2c399cbab81c04cad0704bda0>
DOI: 10.1021/je400568u

Materazzi, S., Foti, C., Crea, F.
Nickel and copper biomimetic complexes with N-heterocyclic dicarboxylic ligands
(2013) *Thermochimica Acta*, 573, pp. 101-105.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84885971137&doi=10.1016%2fj.tca.2013.08.023&partnerID=40&md5=6476bed0e660faf1bdc6ad5f4cf14e9b>
DOI: 10.1016/j.tca.2013.08.023

Mazzaglia, A., Bondi, M.L., Scala, A., Zito, F., Barbieri, G., Crea, F., Vianelli, G., Mineo, P., Fiore, T., Pellerito, C., Pellerito, L., Costa, M.A.
Supramolecular assemblies based on complexes of nonionic amphiphilic cyclodextrins and a meso-tetra(4-sulfonatophenyl)porphine tributyltin(IV) derivative: Potential nanotherapeutics against melanoma
(2013) *Biomacromolecules*, 14 (11), pp. 3820-3829.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84887567106&doi=10.1021%2fbm400849n&partnerID=40&md5=8e10d476dc4874309db6696abc b2abfa>
DOI: 10.1021/bm400849n
OPEN ACCESS: All Open Access, Green

Crea, F., De Stefano, C., Foti, C., Milea, D., Sammartano, S.
Chelating agents for the sequestration of mercury(II) and monomethyl mercury(II)
(2014) *Current Medicinal Chemistry*, 21 (33), pp. 3819-3836.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84919347763&doi=10.2174%2f0929867321666140601160740&partnerID=40&md5=3daa8135590ae658843fe0138f09be37>
DOI: 10.2174/0929867321666140601160740

Crea, F., Falcone, G., Foti, C., Giuffrè, O., Materazzi, S.

Thermodynamic data for Pb²⁺ and Zn²⁺ sequestration by biologically important S-donor ligands, at different temperatures and ionic strengths
(2014) *New Journal of Chemistry*, 38 (8), pp. 3973-3983.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904323940&doi=10.1039%2fc4nj00830h&partnerID=40&md5=ffc8f5bf0635fad10da154ebee8823b4>
DOI: 10.1039/c4nj00830h

Bretti, C., Cigala, R.M., Crea, F., Lando, G., Sammartano, S.
Thermodynamics of proton binding and weak (Cl⁻, Na⁺ and K⁺) species formation, and activity coefficients of 1,2-dimethyl-3-hydroxypyridin-4-one (deferiprone)
(2014) *Journal of Chemical Thermodynamics*, 77, pp. 98-106.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84902491398&doi=10.1016%2fj.jct.2014.05.006&partnerID=40&md5=ce44c300a84cd6d2133d52fdec0dbd26>
DOI: 10.1016/j.jct.2014.05.006

Materazzi, S., Foti, C., Crea, F., Risoluti, R., Finamore, J.
Biomimetic complexes of divalent cobalt and zinc with N-heterocyclic dicarboxylic ligands
(2014) *Thermochimica Acta*, 580, pp. 7-12.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84896817205&doi=10.1016%2fj.tca.2014.01.025&partnerID=40&md5=bd0e05e70bdee356a1bb9cb74b138497>
DOI: 10.1016/j.tca.2014.01.025

Cigala, R.M., Cordaro, M., Crea, F., De Stefano, C., Fracassetti, V., Marchesi, M., Milea, D., Sammartano, S.
Acid-base properties and alkali and alkaline earth metal complex formation in aqueous solution of diethylenetriamine- N, N, N', N'', N''-pentakis(methylenephosphonic acid) obtained by an efficient synthetic procedure
(2014) *Industrial and Engineering Chemistry Research*, 53 (23), pp. 9544-9553.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84902532189&doi=10.1021%2fie500526r&partnerID=40&md5=ddfd42c358c8e3f8f4170e2211fc6c85>
DOI: 10.1021/ie500526r

Crea, F., De Stefano, C., Milea, D., Pettignano, A., Sammartano, S.
SALMO and S3M: A saliva model and a single saliva salt model for equilibrium studies
(2015) *Bioinorganic Chemistry and Applications*, 2015, art. no. 267985, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924226954&doi=10.1155%2f2015%2f267985&partnerID=40&md5=933d2e414b4b6dc0db3fb0b80f9149ff>
DOI: 10.1155/2015/267985
OPEN ACCESS: All Open Access, Gold, Green

Cigala, R.M., Crea, F., De Stefano, C., Foti, C., Milea, D., Sammartano, S.
Zinc(II) complexes with hydroxocarboxylates and mixed metal species with tin(II) in different salts aqueous solutions at different ionic strengths: Formation, stability, and weak interactions with supporting electrolytes
(2015) *Monatshefte für Chemie*, 146 (4), pp. 527-540.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84925515439&doi=10.1007%2fs00706-014-1394-3&partnerID=40&md5=d0e7b440986adbe34edd93d5d9e74cb0>
DOI: 10.1007/s00706-014-1394-3

Bretti, C., Cigala, R.M., Crea, F., De Stefano, C., Vianelli, G.
Solubility and modeling acid-base properties of adrenaline in NaCl aqueous solutions at different ionic strengths and temperatures
(2015) *European Journal of Pharmaceutical Sciences*, 78, pp. 37-46.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84935505691&doi=10.1016%2fj.ejps.2015.06.025&partnerID=40&md5=08b17f6935ace598bc11c19d6fda9002>
DOI: 10.1016/j.ejps.2015.06.025

Bretti, C., Cigala, R.M., Crea, F., De Stefano, C., Lando, G., Sammartano, S.
Thermodynamics of Zn²⁺ + 2-mercaptopyridine-N-oxide and 2-hydroxypyridine-N-oxide interactions: Stability, solubility, activity coefficients and medium effects
(2015) *Journal of Molecular Liquids*, 211, pp. 876-884.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84939839687&doi=10.1016%2fj.molliq.2015.08.007&partnerID=40&md5=354e49760ada9469a12dcfea74d59dd5>
DOI: 10.1016/j.molliq.2015.08.007

Cigala, R.M., Crea, F., De Stefano, C., Sammartano, S.
Modelling the Hydrolysis of Mixed Mono-, Di- and Trimethyltin(IV) Complexes in Aqueous Solutions
(2015) *Journal of Solution Chemistry*, 44 (8), pp. 1611-1625.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940589530&doi=10.1007%2fs10953-015-0367-4&partnerID=40&md5=1940ba87418d326f8536055eef906e80>
DOI: 10.1007/s10953-015-0367-4

Crea, F., De Stefano, C., Foti, C., Lando, G., Milea, D., Sammartano, S.
Alkali Metal Ion Complexes with Phosphates, Nucleotides, Amino Acids, and Related Ligands of Biological Relevance. Their Properties in Solution
(2016) *Metal Ions in Life Sciences*, 16, pp. 133-166.
https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958053700&doi=10.1007%2f978-3-319-21756-7_5&partnerID=40&md5=72e428e45e248ba96045ab1765ea9650
DOI: 10.1007/978-3-319-21756-7_5

Bretti, C., Cigala, R.M., Crea, F., De Stefano, C., Foti, C., Pettignano, A., Sammartano, S.
Polycarboxylic acids in sea water: acid–base properties, solubilities, activity coefficients, and complex formation constants at different salinities
(2016) *Monatshefte für Chemie*, 147 (9), pp. 1481-1505.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974851219&doi=10.1007%2fs00706-016-1758-y&partnerID=40&md5=1136483f2614e29bd449f967ca2acba4>
DOI: 10.1007/s00706-016-1758-y

Cardiano, P., Cigala, R.M., Crea, F., Giacobello, F., Giuffrè, O., Irto, A., Lando, G., Sammartano, S.
Sequestration of Aluminium(III) by different natural and synthetic organic and inorganic ligands in aqueous solution
(2017) *Chemosphere*, 186, pp. 535-545.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028751955&doi=10.1016%2fj.chemosphere.2017.08.015&partnerID=40&md5=bb3fce78c347a17b2ead8e581ae3faa0>
DOI: 10.1016/j.chemosphere.2017.08.015

Crea, F., De Stefano, C., Irto, A., Milea, D., Pettignano, A., Sammartano, S.
Modeling the acid-base properties of molybdate(VI) in different ionic media, ionic strengths and temperatures, by EDH, SIT and Pitzer equations
(2017) *Journal of Molecular Liquids*, 229, pp. 15-26.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006880769&doi=10.1016%2fj.molliq.2016.12.041&partnerID=40&md5=c2de0542a9c126ea0249c3e3b38d7232>
DOI: 10.1016/j.molliq.2016.12.041

Cigala, R.M., Crea, F., De Stefano, C., Sammartano, S., Vianelli, G.
Thermodynamic Parameters for the Interaction of Amoxicillin and Ampicillin with Magnesium in NaCl Aqueous Solution, at Different Ionic Strengths and Temperatures
(2017) *Journal of Chemical and Engineering Data*, 62 (3), pp. 1018-1027.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015923534&doi=10.1021%2facsc.jced.6b00849&partnerID=40&md5=7652fe868b5bdfff55ff505e96e5be0d>
DOI: 10.1021/acs.jced.6b00849

Cardiano, P., Cigala, R.M., Crea, F., De Stefano, C., Giuffrè, O., Sammartano, S., Vianelli, G.
Potentiometric, UV and ¹H NMR study on the interaction of penicillin derivatives with Zn(II) in aqueous solution
(2017) *Biophysical Chemistry*, 223, pp. 1-10.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011831866&doi=10.1016%2fj.bpc.2017.01.002&partnerID=40&md5=f2569deb9d92c31d6e8bf8649f48963e>
DOI: 10.1016/j.bpc.2017.01.002

Cardiano, P., Crea, F., Foti, C., Giuffrè, O., Sammartano, S.
Potentiometric, UV and ¹H NMR study on the interaction of Cu²⁺ with ampicillin and amoxicillin in aqueous solution
(2017) *Biophysical Chemistry*, 224, pp. 59-66.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017428233&doi=10.1016%2fj.bpc.2017.04.001&partnerID=40&md5=029bf923222f1f25453c92c07b21fbf9>
DOI: 10.1016/j.bpc.2017.04.001

Bretti, C., Cigala, R.M., Crea, F., De Stefano, C., Gattuso, G., Irto, A., Lando, G., Milea, D., Sammartano, S.
Thermodynamic Properties of O-Donor Polyelectrolytes: Determination of the Acid-Base and Complexing Parameters in Different Ionic Media at Different Temperatures
(2017) *Journal of Chemical and Engineering Data*, 62 (9), pp. 2676-2688.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028752968&doi=10.1021%2facsc.jced.7b00101&partnerID=40&md5=24c57e9417e0cbedde499893ad0bc835>
DOI: 10.1021/acs.jced.7b00101

Rizzo, C., Genovese, G., Morabito, M., Faggio, C., Pagano, M., Spanò, A., Zammuto, V., Minicante, S.A., Manghisi, A., Cigala, R.M., Crea, F., Marino, F., Gugliandolo, C.
Potential antibacterial activity of marine macroalgae against pathogens relevant for aquaculture and human health
(2017) *Journal of Pure and Applied Microbiology*, 11 (4), pp. 1695-1706.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040334558&doi=10.22207%2fJPAM.11.4.07&partnerID=40&md5=6fac9640e76c4e43c04a077b0ec1030a>
DOI: 10.22207/JPAM.11.4.07
OPEN ACCESS: All Open Access, Gold, Green

Crea, F., De Stefano, C., Milea, D., Sammartano, S.
Phytate-molybdate(vi) interactions in NaCl(aq) at different ionic strengths: Unusual behaviour of the protonated species
(2018) *New Journal of Chemistry*, 42 (10), pp. 7671-7679.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047097769&doi=10.1039%2fc7nj04651k&partnerID=40&md5=5b94cf320ce5439eb3904d54427d6298>
DOI: 10.1039/c7nj04651k

Irto, A., Cardiano, P., Chand, K., Cigala, R.M., Crea, F., De Stefano, C., Gano, L., Sammartano, S., Santos, M.A.
Bifunctional 3-hydroxy-4-pyridinones as effective aluminium chelators: synthesis, solution equilibrium studies and in vivo evaluation
(2018) *Journal of Inorganic Biochemistry*, 186, pp. 116-129.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048173019&doi=10.1016%2fj.jinorgbio.2018.05.017&partnerID=40&md5=03f3c79144cc4b6a6b931c6a74b541f9>
DOI: 10.1016/j.jinorgbio.2018.05.017

Cigala, R.M., Crea, F., De Stefano, C., Irto, A., Sammartano, S.
Use of Gantrez Copolymers as Potential Chelating Agent for the Selective Sequestration of Metal Ions. Studies of the Interactions in Aqueous Solution at Different Ionic Strengths and Temperatures
(2018) *Journal of Chemical and Engineering Data*, 63 (11), pp. 4193-4204.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056406565&doi=10.1021%2facsc.jced.8b00655&partnerID=40&md5=4967703796e79b9091002f0723c79a96>
DOI: 10.1021/acs.jced.8b00655

Cataldo, S., Chiodo, V., Crea, F., Maisano, S., Milea, D., Pettignano, A.
Biochar from byproduct to high value added material – A new adsorbent for toxic metal ions removal from aqueous solutions
(2018) *Journal of Molecular Liquids*, 271, pp. 481-489.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053061014&doi=10.1016%2fj.molliq.2018.09.009&partnerID=40&md5=5667bd00fc7ca780af4bb271b12501db>
DOI: 10.1016/j.molliq.2018.09.009

Irto, A., Cardiano, P., Chand, K., Cigala, R.M., Crea, F., De Stefano, C., Gano, L., Gattuso, G., Sammartano, S., Santos, M.A.

New bis-(3-hydroxy-4-pyridinone)-NTA-derivative: Synthesis, binding ability towards Ca²⁺, Cu²⁺, Zn²⁺, Al³⁺, Fe³⁺ and biological assays
(2018) Journal of Molecular Liquids, 272, pp. 609-624.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054159311&doi=10.1016%2Fj.molliq.2018.09.107&partnerID=40&md5=34a757b70a553c0143a36b916de4031d>
DOI: 10.1016/j.molliq.2018.09.107

Cardiano, P., Cigala, R.M., Crea, F., De Stefano, C., Milea, D., Sammartano, S.
Characterization of the thermodynamic properties of some benzenepolycarboxylic acids: Acid-base properties, weak complexes, total and neutral species solubility, solubility products in NaCl_{aq}, (CH₃)₄NCl_{aq} and Synthetic Sea Water (SSW)
(2019) Fluid Phase Equilibria, 480, pp. 41-52.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054799265&doi=10.1016%2Fj.fluid.2018.09.027&partnerID=40&md5=7c9e143eb88341c6a59416332df68e6c>
DOI: 10.1016/j.fluid.2018.09.027

Irto, A., Cardiano, P., Chand, K., Cigala, R.M., Crea, F., De Stefano, C., Gano, L., Gattuso, G., Sammartano, S., Santos, M.A.
A new bis-(3-hydroxy-4-pyridinone)-DTPA-derivative: Synthesis, complexation of di-/tri-valent metal cations and in vivo M³⁺ sequestering ability
(2019) Journal of Molecular Liquids, 281, pp. 280-294.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061961219&doi=10.1016%2Fj.molliq.2019.02.042&partnerID=40&md5=25f5f6997c320f876e5dc5175c2d6666>
DOI: 10.1016/j.molliq.2019.02.042

Irto, A., Cardiano, P., Cataldo, S., Chand, K., Cigala, R.M., Crea, F., De Stefano, C., Gattuso, G., Muratore, N., Pettignano, A., Sammartano, S., Santos, M.A.
Speciation studies of bifunctional 3-hydroxy-4-pyridinone ligands in the presence of Zn²⁺ at different ionic strengths and temperatures
(2019) Molecules, 24 (22), art. no. molecules24224084, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075008149&doi=10.3390%2Fmolecules24224084&partnerID=40&md5=42580f4628a3ecdbaf2e68f13557bcd>
DOI: 10.3390/molecules24224084
OPEN ACCESS: All Open Access, Gold, Green

Crea, F., de Stefano, C., Irto, A., Lando, G., Materazzi, S., Milea, D., Pettignano, A., Sammartano, S.
Understanding the solution behavior of epinephrine in the presence of toxic cations: A thermodynamic investigation in different experimental conditions
(2020) Molecules, 25 (3), art. no. 511, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078688341&doi=10.3390%2Fmolecules25030511&partnerID=40&md5=f707d6e8aab7781241c95b0fa64785b0>
DOI: 10.3390/molecules25030511
OPEN ACCESS: All Open Access, Gold, Green

Crea, F., Pettignano, A.

Special issue “chemical speciation of organic and inorganic components of environmental and biological interest in natural fluids: Behaviour, interaction and sequestration”

(2020) *Molecules*, 25 (4), art. no. 826, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079656636&doi=10.3390%2fmolecules25040826&partnerID=40&md5=9fb78a2b1666995b8308ebb555423b66)

[85079656636&doi=10.3390%2fmolecules25040826&partnerID=40&md5=9fb78a2b1666995b8308ebb555423b66](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079656636&doi=10.3390%2fmolecules25040826&partnerID=40&md5=9fb78a2b1666995b8308ebb555423b66)

DOI: 10.3390/molecules25040826

OPEN ACCESS: All Open Access, Gold, Green

Cigala, R.M., Crea, F., De Stefano, C., Irto, A., Milea, D., Sammartano, S.

Thermodynamic Behavior of Polyalcohols and Speciation Studies in the Presence of Divalent Metal Cations

(2020) *Journal of Chemical and Engineering Data*, 65 (5), pp. 2805-2812.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087981067&doi=10.1021%2facsc.jced.0c00120&partnerID=40&md5=170fc86b951ff7a06b84c505f82a69ca)

[85087981067&doi=10.1021%2facsc.jced.0c00120&partnerID=40&md5=170fc86b951ff7a06b84c505f82a69ca](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087981067&doi=10.1021%2facsc.jced.0c00120&partnerID=40&md5=170fc86b951ff7a06b84c505f82a69ca)

DOI: 10.1021/acs.jced.0c00120

OPEN ACCESS: All Open Access, Hybrid Gold

Arena, K., Brancato, G., Cacciola, F., Crea, F., Cataldo, S., De Stefano, C., Gama, S., Lando, G., Milea, D., Mondello, L., Pettignano, A., Plass, W., Sammartano, S.

8-hydroxyquinoline-2-carboxylic acid as possible molybdophore: A multi-technique approach to define its chemical speciation, coordination and sequestering ability in aqueous solution

(2020) *Biomolecules*, 10 (6), art. no. 930, pp. 1-21.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086646090&doi=10.3390%2fbiom10060930&partnerID=40&md5=90370535f92f0496b851d80725566125)

[85086646090&doi=10.3390%2fbiom10060930&partnerID=40&md5=90370535f92f0496b851d80725566125](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086646090&doi=10.3390%2fbiom10060930&partnerID=40&md5=90370535f92f0496b851d80725566125)

DOI: 10.3390/biom10060930

OPEN ACCESS: All Open Access, Gold, Green

Cernaro, V., Loddo, S., Macaione, V., Ferlazzo, V.T., Cigala, R.M., Crea, F., De Stefano, C.,

Genovese, A.R.R., Gembillo, G., Bolignano, D., Santoro, D., Vita, R., Buemi, M., Benvenga, S.

RAS inhibition modulates kynurenine levels in a CKD population with and without type 2 diabetes mellitus

(2020) *International Urology and Nephrology*, 52 (6), pp. 1125-1133.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083671312&doi=10.1007%2fs11255-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083671312&doi=10.1007%2fs11255-020-02469-z&partnerID=40&md5=6e41be641910912a80ca2a3fd83a8af8)

[020-02469-z&partnerID=40&md5=6e41be641910912a80ca2a3fd83a8af8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083671312&doi=10.1007%2fs11255-020-02469-z&partnerID=40&md5=6e41be641910912a80ca2a3fd83a8af8)

DOI: 10.1007/s11255-020-02469-z

Cigala, R.M., Crea, F., De Stefano, C., Irto, A., Sammartano, S.

Nature as Resource. Thermodynamic characterization of natural and synthetic polymers and their sequestering ability towards some bivalent metal cations

(2020) *Journal of Chemical Thermodynamics*, 150, art. no. 106205, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086719859&doi=10.1016%2fj.jct.2020.106205&partnerID=40&md5=36b4fdf54fcc32bf77ad64c0649c636b)

[85086719859&doi=10.1016%2fj.jct.2020.106205&partnerID=40&md5=36b4fdf54fcc32bf77ad64c0649c636b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086719859&doi=10.1016%2fj.jct.2020.106205&partnerID=40&md5=36b4fdf54fcc32bf77ad64c0649c636b)

DOI: 10.1016/j.jct.2020.106205

Irto, A., Cardiano, P., Chand, K., Cigala, R.M., Crea, F., De Stefano, C., Gattuso, G., Sammartano, S., Santos, M.A.

Complexation of environmentally and biologically relevant metals with bifunctional 3-hydroxy-4-pyridinones

(2020) Journal of Molecular Liquids, 319, art. no. 114349, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091674594&doi=10.1016%2fj.molliq.2020.114349&partnerID=40&md5=9a85e4e8fc542f01a3100d5a78257082)

[85091674594&doi=10.1016%2fj.molliq.2020.114349&partnerID=40&md5=9a85e4e8fc542f01a3100d5a78257082](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091674594&doi=10.1016%2fj.molliq.2020.114349&partnerID=40&md5=9a85e4e8fc542f01a3100d5a78257082)

DOI: 10.1016/j.molliq.2020.114349

Cataldo, S., Crea, F., Massaro, M., Milea, D., Pettignano, A., Riela, S.

Functionalized Halloysite Nanotubes For Enhanced Removal Of Hg²⁺ Ions From Aqueous Solutions

(2021) Clays and Clay Minerals, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105336483&doi=10.1007%2fs42860-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105336483&doi=10.1007%2fs42860-021-00112-1&partnerID=40&md5=9460312619494551750e852213604eba)

[021-00112-1&partnerID=40&md5=9460312619494551750e852213604eba](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105336483&doi=10.1007%2fs42860-021-00112-1&partnerID=40&md5=9460312619494551750e852213604eba)

DOI: 10.1007/s42860-021-00112-1

OPEN ACCESS: All Open Access, Hybrid Gold

Spoto S.E., Somma R. And Crea F.

Using A Forensic - Based Learning Approach To Teach Geochemistry.

(2021) Aapp | Atti Della Accademia Peloritana Dei Pericolanti. Classe Di Scienze Fisiche, Matematiche E Naturali

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