

CURRICULUM VITAE ET STUDIORUM: Prof. Lorenzo TASSI



Personal data: Born in Mirandola (MO), December 22, 1955

Present Position: Associate Professor in Analytical Chemistry

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EDUCATION

- **March 13, 1980** - Degree in Chemistry (summa cum laude) at the University of Modena, with a thesis entitled 'Titolazioni Conduttometriche di Acidi Deboli in Solventi Non-acquosi', under the supervision of Proff. Carlo Preti and Giuseppe Tosi.
- **Jun. 1, 1983** – Assistant Professor in General and Inorganic Chemistry at MM.FF.NN. Sciences Faculty - University of Modena.
- **Nov. 1, 1998** – Associate Professor in Analytical Chemistry at Department of Chemistry, now DSCG – University of Modena and Reggio Emilia

BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY

The scientific activity of Prof. Tassi has been profitably spent on some research areas and the results are contained in 129 international publications (138 articles printed in journals and magazines, 10 chapters of collective books, 1 presentation of collective scientific volume), 4 applications for national patents, and 141 reports at national and international conferences. The scientific skills acquired, refer to spectroscopic techniques, such as Atomic Absorption (FAAS, GFAAS) and Atomic Emission (ICP-OES), Molecular Spectroscopy (IR, Raman, UV-Vis), Electron Microscopy (SEM-EDS) techniques, diffractometric techniques (XRD), thermal analysis (TG, DTA, DSC, TG-MS-EGA), ¹H-NMR spectrometry, Mass Spectrometry, electroanalytical techniques (conductivity, potentiometry), as well as standard methodologies for measurements and applications in the liquid state (density, viscosity, dielectric constant, refractive index and related thermodynamic properties), the sampling with solid phase microextraction (SPME) and chromatographic techniques (GC, GC-MS, HPLC, HPLC-MS). Furthermore, specific skills have also been acquired in the field of numerical processing, for the analysis and modeling of databases through the application of common statistical software (SPSS, XLS).

Thematic areas where the scientific activity of Prof. Tassi is well documented, can be summarized as follows:

- ✓ feasibility studies of acid-base conductivity titrations in pure non-aqueous solvents, their mixtures, and water mixtures;
- ✓ synthesis and structural characterization in solid state of acid-base adducts;
- ✓ studies of acid-base equilibrium and electrolytic dissociation in non-aqueous solvents and their mixtures by applying electroanalytical techniques;
- ✓ characterization studies of multicomponent solvent systems by measures of thermophysical properties such as density, viscosity, dielectric constant, refractive index, and thermodynamic properties related to them;

- ✓ development of correlation models belonging to the QSPR class, with classification capacity and predictive capacity, for the study of some properties of liquid systems under ordinary conditions;
- ✓ study of the behavior of benzene-phenyl compounds and dithiocarbamic derivatives by mass spectrometry;
- ✓ synthesis, characterization and reactivity of coordination compounds with elements of the 'd' and 'f' blocks with binders (containing N,O, S, Se as donor atoms) of the 1,4-benzodiazepine type, dithiocarbamic acids, benzenseleninic acids;
- ✓ development and standardization of innovative analytical methods for characterization and classification of food matrices, by applying spectroscopic techniques (AAS, IC-OES, ICP-MS), through the use of dedicated algorithms for the analysis of spectroscopic signals (MIR, NIR) and chromatographic reports (GC, GC-MS, HPLC, HPLC-MS); thermal methods (TG, DSC, TG-MS-EGA), among others;
- ✓ characterization and classification of natural matrices based on amidaceous, tannic, and derived products with biopharmacological activity;
- ✓ implementation of technology transfer processes for the total valorization of biomasses and waste materials;
- ✓ characterization and classification of pigment materials, metallic materials, binder materials, and other materials relevant for Cultural Heritage researches;
- ✓ synthesis, preparation and characterization of new industrial materials and new processes for REACH-compliance;
- ✓ forensic sciences.

MAJOR COLLABORATIONS

- researchers of DSCG and DSV – UniMORE; and others

MAJOR COLLABORATIONS for APPLIED RESEARCHES

- Litokol spa (Rubiera - RE); MCP srl (MO); Renner Italia spa (Minerbio - BO); Italbox Imballaggi spa (Rolo - RE); Ecobloks spa (Finale Emilia - MO); Eurotarget srl (Novellara – RE); Carlo Riccò & F.lli (RE); Pietro Galliani Brazing spa (Vergato – BO); others

FUNDING AND PROJECTS

- **2020** – POR-FSE RER 2014-2020; Azione 1.1.4 - progetti di Ricerca e Innovazione per lo sviluppo di soluzioni finalizzate al contrasto dell'epidemia da COVID-19; Progetto “**Sistema di sanificazione universale dei dispositivi di protezione individuale (SSUDPI)**”; responsabile di UO del DSCG e BIOGEST-Siteia; **23 K€**
- **2020** – POR-FSE RER 2014-2020; Azione 1.1.2 – Progetti di innovazione e diversificazione di prodotto o servizio per le PMI – 2019 - DGR1266/2019. Progetto “**BIOLEGANTI IBRIDI**”; responsabile di UO del DSCG e BIOGEST-Siteia ; **80 K€**
- 2019 - POR-FSE RER – Programma di sviluppo delle PMI . Progetto ‘**Sviluppo viti ad altissima resistenza per applicazione su motori endotermici altamente performanti e settore aerospace**’ ; responsabile di UO del DSCG; **35 K€**
- **2019** - POR-FSE RER - Progetto di Formazione per le Alte Competenze per la Ricerca “**NUMAPOS – NUovi MATERIALI POLimerici Sostenibili**”; assegno di ricerca = **30 K€**
- **2018** – POR-FSE RER – Progetto di Formazione per le Alte Competenze per la Ricerca, il Trasferimento Tecnologico e l'Imprenditorialità “**Valorizzazione di scarti agroindustriali per il**

recupero energetico, la produzione di fibre – grassi vegetali – tannini – principi biofarmacologicamente attivi di uso nutraceutico e cosmeceutico”; borsa di dottorato = **87 K€**

- **2016-2018** : POR-FESR RER “**ZERO - Zero Environmental Risks in Our buildings**”; responsabile UO del DSCG; al DSCG = **340 K€**
- **2015-2016** : Bando MISE; Progetto di Innovazione Industriale **Industria 2015 – Made in Italy** – responsabile UO del DSCG; al DSCG = **65 K€**
- **2014** : Bando PRRIITT RER - Progetto di Ricerca Industriale “**MALTE-LITOKOL**”, responsabile UO del DSCG; al DSCG = **30 K€**
- **2011** : 3 borse SPINNER 2013 – Progetto MOREach (**42 K€**)
- **2010** : 2 borse SPINNER 2013 – Progetto AQTAN (**46 K€**)

TEACHING ACTIVITIES

- Teacher of the course: **Chimica Analitica I** for science degree in **Chimica** (L27), University of Modena and Reggio Emilia (from the academic year 2017/18 until to date)
- Teacher of the course: **Chimica Analitica II** for science degree in **Chimica** (L27), University of Modena and Reggio Emilia (from the academic years 2004/05 until 2016/17)
- Teacher of the course: **Chimica Analitica Strumentale** for science degree in **Chimica** (L27), University of Modena and Reggio Emilia (from the academic years 2004/05 until 2012/13)
- Teacher of the course: **Chimica Analitica** for science degree in **Scienze Naturali** (L32), University of Modena and Reggio Emilia (from the academic years 2015/16 to 2018/19)
- Teacher of the course: **Chimica Analitica dei Processi Ambientali** at the master of science in **Didattica e Comunicazione delle Scienze** (LM60), University of Modena and Reggio Emilia (from the academic years 2019/20)
- Since the 2011/2012 academic year he has been engaged as teacher at the **II level Master Course** “**Gestione delle Sostanze Chimiche: REACH e CLP**”, University of Modena and Reggio Emilia

THESIS SUPERVISOR OF DEGREE AND MASTER DEGREE OF STUDENTS

He is supervisor with didactic and scientific responsibility for the preparation of dissertation Thesis for Chemistry students [101 V.O. (students of the old system); 196 students of the Bachelor’s Degree; 45 students of the Master’s Degree], Biological Sciences (3) and Natural Sciences (12).

SUPERVISOR OF PhD STUDENTS AND POSTDOCTORAL FELLOWS

- **1999-2002** Supervisor of one Ph.D. Student, Dr. Moris VIGNALI, working on a thesis entitled ‘*Sviluppo e messa a punto di metodi analitici per la classificazione di varietà in matrici enologiche*’ – Dottorato di Ricerca in Chimica - UNIMORE
- **2019-2021** Supervisor of one Ph.D. Student, Dr.ssa Laura MALETTI, working on a thesis entitled ‘*Valorization of Biomasses by Applying Biorefinery Strategies*’ – M3ES school - UNIMORE
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- **2016-2018**. Supervisor of 2 year post-Doc Research Fellow, Dr. Carlo BASCHIERI, working on a project entitled “ZERO - Zero Environmental Risks in Our buildings”
- **2016-2018**. Supervisor of 2 year post-Doc Research Fellow, Dr.ssa Lucia BERTACCHINI, working on a project entitled “ZERO - Zero Environmental Risks in Our buildings”
- **2016-2018**. Supervisor of 19 months post-Doc Research Fellow, Dr.ssa Valentina NICOLINI, working on a project entitled “ZERO - Zero Environmental Risks in Our buildings”

- **2016-2018.** Supervisor of 6 months post-Doc Research Fellow, Dr. Michele SILVESTRI, working on a project entitled “ZERO - Zero Environmental Risks in Our buildings”
- **2016-2019.** Supervisor of 3 year Research Fellow, Dr. Elia ANSALONI, working on a project entitled “ZERO - Zero Environmental Risks in Our buildings”
- **2018-2019.** Supervisor of 6 months post-Doc Research Fellow, Dr. Marcello PIGNATARO, working on a project entitled “ZERO - Zero Environmental Risks in Our buildings”
- **2018-2019.** Supervisor of 1 year Research Fellow, Dr. Diego LEONI, working on a project entitled “ZERO - Zero Environmental Risks in Our buildings”
- **2019-2020,** Supervisor of 1 year Research Fellow, Dr. Diego LEONI, working on a project entitled “Sviluppo viti ad altissima resistenza per applicazione su motori endotermici altamente performanti e settore aerospaziale”
- **2019-2020,** Supervisor of 1 year Research Fellow, Dr. Lidia LANCELLOTTI, working on a project entitled “NUMAPOS - NUovi MAteriali POLimerici Sostenibili”

ACADEMIC DUTIES

- **2012-2015** President of the Degree Course Council in Chemistry (L-27) and the Master's Degree in Chemical Sciences (LM-54)
- **2009-2010** Coordinator of Doctorate School in Chemical Sciences at UNIMORE

MEMBERSHIPS AND APPOINTMENTS

- Member of the Division of Analytical Chemistry of the Italian Chemical Society (from 1983)
- Member of the Teaching Committee of the ‘M3ES’ Doctorate of the UNIMORE

ACTIVITIES IN REFERRED SCIENTIFIC JOURNALS

- Regular review activity for *Australian Journal of Chemistry*, *Journal of Solution Chemistry*, *Fluid Phase Equilibria*, *Journal of Molecular Liquids*, *Journal of Chemical Thermodynamics*, *Trends in Analytical Chemistry*, *Journal of Chemical and Engineering Data*, *Industrial and Engineering Chemistry Research*, *Journal of Physical Chemistry*, *Journal of Structural Chemistry*, *Journal of Thermal Analysis and Calorimetry*, *Physics and Chemistry of Liquids*, *Physical and Chemical Research*, *International Journal of Thermophysics*, *Molecules*, *Fermentation*, *Food Hydrocolloids*, *Beverages*, *Life*, *Applied Chemistry*, *Waste*, *Current Research in Food Science*, *Agronomy*, ...
- He collaborated with the Publishing House “Research Signpost” (Trivandrum), as Major Editor for the realization of the collective volume **NEW TRENDS IN ANALYTICAL, ENVIRONMENTAL AND CULTURAL HERITAGE CHEMISTRY** (2008)

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OTHER INFORMATION

BIBLIOMETRIC INDICATORS (Source: Google Scholar) AND SCIENTIFIC PRODUCTION

Total number of publications in scientific journals: **141**

Total number of book chapters: **11**

Total number of other publications: **21** selected (out of about 120 in total)

Total number of citations: **2369**

h-index: **26**

Average number of citations per publication: **16.9**

Average number of citations per year: **59.2**

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TECHNOLOGICAL TRANSFER (IPR – Intellectual Property Rights)

1) A. Martinelli, L. Tassi, M. Vignali

Produzione di Tannini di Alta Qualità, e polifenoli associati, estratti da essenze di noce destinati ad applicazioni speciali (in campo agroalimentare, nutraceutico, cosmetico-farmacologico) e tradizionali (settore tintorio, tessile, conciario, edilizio).

Cod. WIPO: 10MO2009A000238; concessione n. 0001399378 del 16 aprile 2013.

Brevetto per Invenzione Industriale

2) A. Martinelli, L. Tassi, M. Vignali

Recupero di principi bioattivi da prodotti secondari di lavorazioni agro-alimentari

codice WIPO: 10MI2012A000777; concessione n. 0001411493 del 23 ottobre 2014.

Brevetto per Invenzione Industriale

3) G. Foca, D. Leoni, G. Lusvardi, A. Marchetti, F. Roncaglia, L. Tassi

Indurenti non migratori per materiali proteici

Brevetto per Invenzione Industriale : 102019000000532 del 11/01/2019

4) L.C. Cerrito, S. Deisvaldi, L. Tassi

PROGEAS - Sistema costruttivo per la realizzazione di edifici sismicamente ed ambientalmente sicuri e energeticamente autosufficienti.

Domanda di *Brevetto di Utilità Industriale*, depositato il 23.3.23

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PROMOTION ACTIVITIES OF THE TERRITORY

- **2010** : co-founder and scientific referent of the start-up AQTAN s.r.l., now a consolidated company that produces industrial tannins

PUBLIC ENGAGEMENT

He carries out intense consultancy activities in the chemical – analytical field, acting as an expert on behalf of the Public Prosecutor at the Court of Modena (and other offices), holding the position of CTU of the Judge for preliminary investigations. All the cases dealt with were successfully completed with respect to the questions and objectives set by the investigating judge. In addition, on several occasions he was co-opted by companies and private institutions as an Expert Chemist, appointed consultant of the party (CTP) in the preliminary investigation phase, to identify any cause-and-effect relationships in a preventive form, even solving complex problems to the origin of the dispute between the adverse parties.

By way of example, some court and extrajudicial procedures representative of various thematic contexts, subject to consultant intervention.

- **1998 – 2006** : CTP – 3 cases of attempts at food fraud against and damaging the Consortium for the protection of Traditional Balsamic Vinegar of Modena have been resolved.
- **2001 – 2018** : CTU – In the reference period, 7 cases relating to civil and industrial construction sites were addressed, with construction safety issues (failure to comply with construction

protocols). All cases were resolved during the preliminary investigation phase and out of court, with agreements between the interested parties.

- **2008** : CTU for the Stepney – Ferrari case, brilliantly resolved (the case of the “powder” in petrol for the Formula 1 Grand Prix of Montecarlo); the charges were industrial espionage, sabotage, and other crimes.
- **2010** : CTU – evaluation of the malicious nature of fire in an apartment, problematic case due to the presence of a female dead person.
- **2015 – 2017** : CTP – consultant for the circuit of automotive production companies, to solve problems relating painting cycles with serious repercussions on vehicle safety. Once the causes were identified, the case ended with agreements and bargaining between the interested parties.
- **2017** : CTP – international industrial problem (Italy – Czechoslovakia – England) relating to the production of special multilayer papers for holographic stickers. Case brilliantly resolved on behalf of the Italian manufacturer.
- **2018** : CTU – domestic accident due to the explosion of a spray paint can and permanent damage to the user’s hand.
- **2018** : CTU – evaluation of the culpable nature for the installation of a fireplace in an apartment, a problematic case due to the presence of a dead child.
- **2018 – 2023** : CTP – problems relating to the city methane gas distribution network.

LIST OF SCIENTIFIC PUBLICATIONS ON INTERNATIONAL JOURNALS WITH IF

- 1) C. Preti, L. Tassi, G. Tosi
Resolution of Mixtures of Organic Acids by Conductometric Titrations in 2-Methoxyethanol
Anal. Chem., **54**, 796-799 (1982).
- 2) A. Benedetti, C. Preti, L. Tassi, G. Tosi
Mass Spectral Investigations on Selenium Compounds. The Behaviour of *meta*- and *para*-Substituted Benzene-seleninic Acids and of *meta*-Nitrophenyl Selenocyanate Under Electron Impact
Aust. J. Chem., **35**, 1365-1372 (1982).
- 3) C. Preti, L. Tassi, G. Tosi, P. Zannini, A.F. Zanolì
Cycloserine Derivatives as Ligands. The Coordinating Ability of 4,4'-[1,4-Phenylenebis-(methylidynenitrilo)]-bis(isoxazolidin-3-one) towards Chromium(III), Ruthenium(III) and Rhodium(III) Halides
Aust. J. Chem., **35**, 1829-1840 (1982).
- 4) A.C. Fabretti, M. Ferrari, G.C. Franchini, C. Preti, L. Tassi, G. Tosi
The First Example of a Copper(II) Chloride Complex with 1,3-Thiazolidine-2-Thione
Trans. Met. Chem., **7**, 279-281 (1982).
- 5) C. Preti, L. Tassi, G. Tosi, P. Zannini, A.F. Zanolì
Coordination Chemistry of Cycloserine Derivatives. Complexes of Iron(II), Iron(III), Manganese(II) and Palladium(II) with N⁴-N⁴'-Tereftal-bis(Cycloserine)
J. Coord. Chem., **12**, 177-186 (1983).
- 6) C. Preti, L. Tassi, G. Tosi
Synthesis and characterization of ruthenium(III) complexes with *para*- and *meta*-substituted benzene-seleninic acids as ligands
Spectrochim. Acta, **39A**, 1-6 (1983).
- 7) E. Neviani Giliberti, C. Preti, L. Tassi, G. Tosi
Conductometric titrations of phenols and carboxylic acid mixtures in 2-methoxyethanol
Ann. Chim. (Rome), **73**, 527-532 (1983).
- 8) A. Benedetti, C. Preti, L. Tassi, G. Tosi, P. Zannini

A mass spectral investigation on 4-phenylpiperidine- and N-phenylpiperazinecarbodithioato sodium salts and on their cobalt(II), nickel(II) and copper(II) complexes.
J. Mol. Struct., **129**, 107-114 (1985).

- 9) C. Preti, L. Tassi, G. Tosi
The conductometric titration of cholic acids in non-aqueous solvents
Ann. Chim. (Rome), **75**, 201-206 (1985).
- 10) G.C. Franchini, A. Giusti, C. Preti, L. Tassi, P. Zannini
Coordinating ability of methylpiperidine dithiocarbamates towards platinum group metals
Polyhedron, **4**, 1553-1558 (1985).
- 11) A.C. Fabretti, A. Giusti, C. Preti, L. Tassi, P. Zannini
Silver and gold complexes with cyclic carbodithioates as ligands
J. Coord. Chem., **14**, 163-168 (1985).
- 12) A.C. Fabretti, C. Preti, L. Tassi, G. Tosi, P. Zannini
Magnetic and spectroscopic studies on copper(II) and chromium(III) complexes with sulfur chelating ligands
Aust. J. Chem., **39**, 605-612 (1986).
- 13) G.C. Franchini, E. Ori, C. Preti, L. Tassi, G. Tosi
A conductometric study of dissociation of picric acid in 2-methoxyethanol and 1,2-ethanediol from -10 to 80 °C
Can. J. Chem., **65**, 722-726 (1987).
- 14) G.C. Franchini, L. Tassi, G.Tosi
The Ethane-1,2-diol - 2-Methoxyethanol Solvent System. The Dependence of the Dissociation Constant of Picric Acid on the Temperature and Composition of the Solvent Mixture
J. Chem. Soc. Faraday Trans. 1, **83**, 3129-3138 (1987).
- 15) A.C. Fabretti, C. Preti, L. Tassi, G. Tosi, P. Zannini
Dithiocarbamate Complexes of Rhodium(III), Iridium(III), Palladium(II) and Platinum(II)
Inorg. Chim. Acta, **137**, 73-74 (1987).
- 16) F. Forghieri, C. Preti, L. Tassi, G. Tosi
Preparation, properties and reactivity of gold complexes with some heterocyclic dithiocarbamates as ligands
Polyhedron, **7**, 1231-1237 (1988).
- 17) G.C. Franchini, C. Preti, L. Tassi, G. Tosi
Effects of Temperature and Solvent Composition on Conductometric Titrations in Nonaqueous Mixed Solvents
Anal. Chem., **60**, 2358-2364 (1988).
- 18) G.C. Franchini, A. Marchetti, L. Tassi, G.Tosi
The Ethane-1,2-diol - Water Solvent System. The Dependence of the Dissociation Constant of Picric Acid on the Temperature and Composition of the Solvent Mixture
J. Chem. Soc. Faraday Trans. 1, **84**, 4427-4438 (1988).
- 19) G.C. Franchini, A. Marchetti, C. Preti, L. Tassi, G. Tosi
Conductometric Titrations of Polyprotic Acids in Nonaqueous Mixed Solvents. Effects of Temperature and Composition of the Solvent Mixture
Anal. Chem., **61**, 177-184 (1989).
- 20) G.C. Franchini, A. Marchetti, C. Preti, L. Tassi, G.Tosi
An Approach to the Problem of the Dependence of the Dissociation Constant of Weak Electrolytes on the Temperature and on the Solvent Composition in the Ethane-1,2-diol - 2-Methoxyethanol Solvent System
J. Chem. Soc. Faraday Trans. 1, **85**, 1697-1707 (1989).
- 21) A. Marchetti, E. Picchioni, L. Tassi, G.Tosi
Ionic Equilibria of Picric Acid in Mixed Amphiprotic Solvents. The 2-Methoxyethanol / Water Solvent System
Anal. Chem., **61**, 1971-1977 (1989).
- 22) G.C. Franchini, A. Marchetti, L. Tassi, G.Tosi

Ionization and Dissociation of Weak Electrolytes. An Initial Approach to K_i and K_d Evaluation
Anal. Chem., **62**, 1004-1010 (1990).

- 23) A. Marchetti, C. Preti, M. Tagliacruzchi, L. Tassi, G. Tosi
 Dissociation equilibria of picric acid in the binary N,N-dimethylformamide / 2-methoxyethanol solvent system
Can. J. Chem., **69**, 509-517 (1991).
- 24) G.C. Franchini, A. Marchetti, M. Tagliacruzchi, L. Tassi, G.Tosi
 Ethane-1,2-diol-2-Methoxyethanol Solvent System. Dependence of the Relative Permittivity and Refractive Index on the Temperature and Composition of the Binary Mixture
J. Chem. Soc. Faraday Trans., **87**, 2583-2588 (1991).
- 25) A. Marchetti, C. Preti, M. Tagliacruzchi, L. Tassi, G.Tosi
 The N,N-Dimethylformamide/Ethane-1,2-Diol Solvent System. Density, Viscosity and Excess Molar Volume at Various Temperatures
J. Chem. Eng. Data, **36**, 360-365 (1991).
- 26) A. Marchetti, C. Preti, M. Tagliacruzchi, L. Tassi, G.Tosi
 The N,N-Dimethylformamide + Ethane-1,2-Diol Solvent System. Dielectric Constant, Refractive Index, and Related Properties at Various Temperatures
J. Chem. Eng. Data, **36**, 365-368 (1991).
- 27) A. Marchetti, M. Tagliacruzchi, L. Tassi, G.Tosi
 Densities and Excess Molar Volumes of the 1,2-Ethandiol + 2-Methoxyethanol Solvent System at Various Temperatures
J. Chem. Eng. Data, **36**, 368-371 (1991).
- 28) L. Antolini, A. Marchetti, C. Preti, M. Tagliacruzchi, L. Tassi, G.Tosi
 Crystal Structure of N,N'-Diphenylguanidinium-m-Chloro-Benzenseleninate
Aust. J. Chem., **44**, 1761-1769 (1991).
- 29) F. Corradini, L. Marcheselli, A. Marchetti, M. Tagliacruzchi, L. Tassi, G.Tosi
 Viscosities and Activation Energies of Viscous Flow of the 1,2-Ethandiol / N,N-Dimethylformamide Binary Solvent System
Bull. Chem. Soc. Jpn., **65**, 503-511 (1992).
- 30) G. Graziosi, A. Marchetti, C. Preti, M. Tagliacruzchi, L. Tassi, G.Tosi
 Synthesis and Characterization of Lanthanide Complexes. Lanthanum(III), Cerium(III) and Europium(III) Derivatives with para- and meta-Substituted Benzene-seleninic Acids
J. Coord. Chem., **25**, 155-163 (1992).
- 31) F. Corradini, A. Marchetti, M. Tagliacruzchi, L. Tassi, G.Tosi
 Dissociation Constants of Picric Acid in Mixtures of N,N-Dimethylformamide + Ethane-1,2-diol
J. Chem. Eng. Data, **37**, 191-194 (1992).
- 32) G.Goldoni, E. Maffei, L. Marcheselli, L. Tassi
 Relative Permittivity of 1,2-Ethandiol + 1,2-Dimethoxyethane from -10 to +30 °C
J. Chem. Eng. Data, **37**, 262-264 (1992).
- 33) S. Fanali, G. Goldoni, L. Marcheselli, G. Pistoni, L. Tassi
 Dielectric Behaviour of the 2-Methoxyethanol - 1,2-Dimethoxyethane Solvent System
J. Chem. Soc. Faraday Trans., **88**, 2003-2006 (1992).
- 34) F. Corradini, G.C. Franchini, L. Marcheselli, L. Tassi, G. Tosi
 Densities and Excess Molar Volumes of 2-Methoxyethanol / Water Binary Mixtures
Aust. J. Chem., **45**, 1109-1117 (1992).
- 35) F. Corradini, L. Marcheselli, L. Tassi, G. Tosi
 Static dielectric constant of N,N-dimethylformamide / 2-methoxyethanol solvent system at various temperatures
Can. J. Chem., **70**, 2895-2899 (1992).

- 36) G. Goldoni, L. Marcheselli, A. Marchetti, L. Tassi, G. Tosi
The Relative Permittivity of 1,2-Dimethoxyethane and N,N-Dimethylformamide Mixtures from -10 to 40 °C
J. Solution Chem., **21**, 953-962 (1992).
- 37) L. Marcheselli, A. Marchetti, M. Tagliazucchi, L. Tassi, G. Tosi
N,N-Dimethylformamide - 2-Methoxyethanol Solvent System. Densities and Excess Molar Volumes at Various Temperatures
J. Chem. Soc. Faraday Trans., **88**, 3159-3163 (1992).
- 38) G. C. Franchini, A. Marchetti, M. Tagliazucchi, L. Tassi, G. Tosi
Titrimetric Behaviour of Picric Acid in the Mixed 2-Methoxyethanol / Water Solvent System
Ann. Chim. (Rome), **82**, 489-502 (1992).
- 39) F. Corradini, L. Marcheselli, L. Tassi, G. Tosi
Ethane-1,2-diol - Water Solvent System : Relative Permittivity as a Function of Temperature and Binary Composition
J. Chem. Soc. Faraday Trans., **89**, 123-127 (1993).
- 40) L. Tassi
Ionic Association of Alkali-metal Bromides in 2-Methoxyethanol
J. Chem. Soc. Faraday Trans., **89**, 733-738 (1993).
- 41) F. Corradini, A. Marchetti, M. Tagliazucchi, L. Tassi, G. Tosi
Kinematic Viscosity Studies of the Binary Ethane-1,2-diol / N,N-Dimethylformamide Solvent System at Various Temperatures
Can. J. Chem. Eng., **71**, 124-129 (1993).
- 42) F. Corradini, G.C. Franchini, L. Marcheselli, L. Tassi, G. Tosi
The Ethane-1,2-diol / Water Solvent System : Densities and Excess Molar Volumes at Various Temperatures
Aust. J. Chem., **46**, 243-251 (1993).
- 43) L. Marcheselli, G. Pistoni, M. Tagliazucchi, L. Tassi, G. Tosi
N,N-Dimethylformamide + 1,2-Dimethoxyethane Binary Mixtures. The Static Dielectric Constant from 40 to 80 °C.
J. Chem. Eng. Data, **38**, 204-206 (1993).
- 44) F. Corradini, A. Marchetti, M. Tagliazucchi, L. Tassi, G. Tosi
Conductances of Sodium Tetraphenylborate in 2-Methoxyethanol - Water Binary Solvent Mixtures
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