

INFORMAZIONI PERSONALI

Paolo Pastore

POSIZIONE RICOPERTA

Professore Ordinario (SSD CHIM01 Chimica Analitica) presso il Dipartimento di Scienze Chimiche (DISC) dell'Università di Padova

ESPERIENZA
PROFESSIONALE

Gennaio 2004 - oggi

Professore Ordinario (SSD CHIM01 Chimica Analitica) presso il Dipartimento di Scienze Chimiche

Università degli studi di Padova, via VIII febbraio, 35100 Padova

- Attività di Ricerca
- Attività Didattica
- Attività Istituzionale: presidenza del Consiglio di Corso di Laurea in Scienze e tecnologie per l'Ambiente dal 2004 al 2013; Direzione della Biblioteca del Dipartimento di Scienze Chimiche dal 2009 al 2013; Membro della Commissione Biblioteche di Ateneo. Membro della Commissione attrezzature di Ateneo nel 2012. Membro della Commissione risorse del Dip. Di Scienze Chimiche dal 2012 ad oggi. Direttore del Centro di Analisi e Servizi per la Certificazione dell'Università di Padova dal 2018 ad oggi. Vicedirettore del Dipartimento di Scienze Chimiche da ottobre 2019 a Novembre 2020.

Attività o settore SSD CHIM01 Chimica Analitica

Gennaio 1998 - 2004

Professore Associato (SSD CHIM01 Chimica Analitica) presso il Dipartimento di Scienze Chimiche

Università degli studi di Padova, via VIII febbraio, 35100 Padova

- Attività di Ricerca
- Attività Didattica
- Attività Istituzionale: Responsabile degli orari delle lezioni del DISC. Membro della Commissione spazi didattici di Ateneo dal 1998 al 2004

Attività o settore SSD CHIM01 Chimica Analitica

Gennaio 1990 - 1998

Ricercatore Universitario (SSD CHIM01 Chimica Analitica) presso il Dipartimento di Scienze Chimiche

Università degli studi di Padova, via VIII febbraio, 35100 Padova

- Attività di Ricerca:
- Attività Didattica
-

Vincitore di borsa di studio CNR svolge nel 1993 un periodo di addestramento scientifico presso il gruppo di ricerca del prof. R.M. Wightman dell'Università del North Carolina a Chapel Hill, USA, dove studia i fenomeni di elettrochemiluminescenza.

Attività o settore SSD CHIM01 Chimica Analitica

ISTRUZIONE E FORMAZIONE

1987 - 1989

Dottorato di Ricerca in Scienze Chimiche

Sostituire con il livello
QEQ o altro, se
conosciuto

Università degli Studi di Padova, via VIII Febbraio, 35100 Padova

Formazione alla ricerca in Chimica Analitica

Effettua uno stage nel 1989 presso l'Ecole Normale Supérieure di Parigi per affinare la conoscenza delle tecniche di simulazione digitale di processi elettrochimici

1987

Abilitazione alla professione di Chimico

Sostituire con il livello
QEQ o altro, se
conosciuto

Ministero dell'Istruzione

Abilitazione professionale

1979 - 1985

Laurea in Chimica (110/110 e lode)

Sostituire con il livello
QEQ o altro, se
conosciuto

Università degli Studi di Padova, via VIII Febbraio, 35100 Padova

COMPETENZE PERSONALI

Lingua madre

Italiano

Altre lingue

Inglese

COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
Ascolto	Lettura	Interazione	Produzione orale	
C	C	C	C	C
Sostituire con il nome del certificato di lingua acquisito. Inserire il livello, se conosciuto				

Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato
Quadro Comune Europeo di Riferimento delle Lingue

Competenze comunicative

▪ Docente alla Scuola di Elettroanalitica, Numana (AN), 2001.

Didattica Universitaria presso l'Università di Padova

A.A.	Corso	CCS
*1994-95	Chimica Analitica	Biotechnol.
*1995-96	Esercitaz. di Analisi Chim. Quantit.	Chimica
*1996-97	Esercitaz. di Analisi Chim. Quantit.	Chimica
*1997-98	Esercitaz. di Analisi Chim. Quantit.	Chim. Ind.
1998-99	Lab. di Chimica Analitica II Lab. di Chimica Industriale Analisi Merceologica mod. C	Chimica Ing. Chim. ^b Chimica
1999-00	Lab. di Chimica Analitica	Chim. Ind.

	Strumentale Lab. di Chimica Industriale Analisi Merceologica mod. B	Ing. Chim. ^b Chimica
2000-01	Chimica Analitica Strumentale Chimica Analitica Strumentale Analisi Merceologica mod. B Chimica Elettroanalitica II	Chim. Ind. Biotecnol. Chimica SSMCCA ^c
2001-02	Chimica Analitica Strumentale Chimica Analitica Strumentale Analisi Merceologica mod. B Chimica Elettroanalitica II	Chim. Ind. Biotecnol. Chim. SSMCCA ^c
2002-03	Chimica Analitica Strumentale Chimica Analitica Strumentale Analisi Merceologica mod. B Chimica Elettroanalitica II	Chim. Ind. Biotecnol. Chimica SSMCCA ^c
2003-2004	Chimica Analitica Strumentale Chimica Analitica Strumentale Chimica Analitica Chimica Elettroanalitica II	Chim. Ind. Biotecnol. Biol. Molec. SSMCCA ^c
2004-2005	Chimica Analitica Chimica Analitica Strumentale Analisi Chimica Ambientale Chimica Elettroanalitica II	S.Tecn.Amb. Biotec. Biotec. (sp.) SSMCCA ^c
2005-2006	Chimica Analitica Tecnologie Analitiche Avanzate Chimica Analitica Strumentale Chimica Elettroanalitica II	STAM. Ch. (Ls) STBC SSMCCA ^c
2006-2007	Chimica Analitica Tecnologie Analitiche Avanzate Chimica Analitica Strumentale Chimica Elettroanalitica II	STAM. Ch. (Ls) STBC SSMCCA ^c
2007-2008	Chimica Analitica Tecnologie Analitiche Avanzate Chimica Analitica Strumentale Chimica Elettroanalitica II	STAM. Ch. (Ls) STBC SSMCCA ^c
2008-2009	Chimica Analitica I Metodologie Analitiche	Ch. LT STAMT
2009-2010	Chimica Analitica Chimica Analitica con elementi di Statistica	STAM FARMACIA
2010-2011	Chimica Analitica Chimica Analitica I mod. A	STAM CI e CH
2011-2012	Chimica Analitica Chimica Analitica I mod. A	STAM CI e CH
2012-2013	Chimica Analitica Chimica Analitica I mod. A TFA	STAM CI e CH
2013-2014	Chimica Analitica Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti PAS	STAM CI e CH CI e CH
2014-2015	Chimica Analitica Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti PAS TFA Scuola REACH	STAM CI e CH CI e CH
2015-2016	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti PAS TFA Scuola REACH	CI e CH CI e CH
2016-2017	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti Scuola REACH	CI e CH CI e CH
2017-2018	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti Scuola REACH	CI e CH CI e CH

2018-2019	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti Scuola REACH Didattica della Chimica (mod. Ch. Analitica)	CI e CH CI e CH
2019-2020	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti Scuola REACH Didattica della Chimica (mod. Ch. Analitica)	CI e CH CI e CH
2020-2021	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti Didattica della Chimica (mod. Ch. Analitica)	CI e CH CI e CH
2021-2022	Laboratorio 1 Chimica analitica 2 mod. A Chimica degli alimenti Didattica della Chimica (mod. Ch. Analitica)	CI e CH CI e CH
2022-2023	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti Didattica della Chimica (mod. Ch. Analitica)	CI e CH CI e CH
2023-2024	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti Didattica della Chimica (mod. Ch. Analitica)	CI e CH CH
2024-2025	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti Didattica della Chimica (mod. Ch. Analitica) Laboratorio 2	CI e CH CI
2025-2026	Chimica Analitica 1 mod. A Chimica analitica 2 mod. A Chimica degli alimenti Didattica della Chimica (mod. Ch. Analitica) Laboratorio 2	CI e CH CI

Competenze organizzative e gestionali

- Coordinatore del Gruppo di Chimica Analitica del Dipartimento di Scienze Chimiche dell'Università di Padova. Ha ottenuto finanziamenti Nazionali ed internazionali e da aziende.

Competenze professionali

Lavoro di ricerca è collocabile in tre categorie a loro volta articolate in più linee.

1. Ricerca di base nell'ambito della chimica elettroanalitica
 - a- Applicazione di metodi matematici non convenzionali per l'ottenimento di informazioni da dati analitici provenienti da curve di titolazione o responsi voltammetrici.
 - b- Studio di ultramicroelettrodi: aspetti teorici, sperimentali e tecnologici.
 - c- Messa a punto di metodiche amperometriche di rivelazione per sistemi in flusso.
 - d- Studio dei processi di elettrochemiluminescenza (ECL): aspetti teorici, applicazioni analitiche, costruzione di sensori per ECL.

2. Chimica Analitica applicata alla quantificazione di prodotti di interesse industriale, alimentare ed ambientale utilizzando principalmente le tecniche gas-cromatografica e HPLC con diverse modalità di rivelazione. Specifiche competenze nell'analisi delle acque e nella loro certificazione.

Nell'ambito della elettrochemiluminescenza ha una continuativa collaborazione con il gruppo di ricerca del prof. R.M. Wightman della Università del North Carolina a Chapel Hill.

- 3. Studio e progettazione di sensori ottici per la determinazione di ossigeno molecolare.
- Studio e progettazione di sensori colorimetrici per la determinazione del pH.

Competenza digitale

AUTOVALUTAZIONE				
Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi
Inserire il livello	Inserire il livello	Inserire il livello	Inserire il livello	Inserire il livello

Livelli: Utente base - Utente intermedio - Utente avanzato
 Competenze digitali - Scheda per l'autovalutazione

Sostituire con il nome del(i) certificato(i) TIC

Altre competenze

Patente di guida B

ULTERIORI INFORMAZIONI

Dati bibliometrici 3 brevetti, 196 pubblicazioni, 1 libro, 2 capitoli di libro, H-index 35.

Pubblicazioni

196. Polycarpa aurata as biomonitor to assess mercury contamination across the Coral Triangle

Eva Turicchia, Riccardo Ercadi, Marco Tamburini, Denis Badocco, Greta Zampa, Fabio Gasparini, Lorian Ballarin, Roberta Guerra, Markus T. Lasut, Daisy M. Makapedua, Jane Mamuja, Joshian N.W. Schadu, Reiny A. Tumbol, Paolo Pastore, Massimo Ponti, Coral Reefs, ??(2025)??.

DOI: <https://doi.org/10.1007/s00338-025-02710-0>

195. Singling Out the Electrochemiluminescence Profile in Microelectrode arrays

Chiara Mariani, Alessandro Fracassa, Paolo Pastore, Sara Bogianni, Francesco Paolucci, Giovanni Valenti, Alessandra Zanut, Chem.Biomed. Imaging 3(2025)462-469

DOI: <https://doi.org/10.1021/cbmi.5c00022>

194. "Ionized Jet Deposition of MoS2 on gas diffusion layer electrodes for next generation alkaline electrolyzers"

Elisabetta Campedelli, Marco Mazzucato, Mattia Parnigotto, Andrea Pedrielli, Christos Gatsios, Denis Badocco, Paolo Pastore, Melanie Timpel, Marco Vittorio Nardi, Christian Durante, Advanced Sustainable Systems (2025) 2400979

DOI: [10.1002/adsu.202400979](https://doi.org/10.1002/adsu.202400979)

193. Iron speciation in urban atmospheric aerosols: comparison between thermodynamic modelling and direct measurements

Giorio, Chiara; Borca, Camelia; Zherebker, Alexander; D'Aronco, Sara; Saidikova, Mushtari; Sheikh, Hassan; Harrison, Richard; Badocco, Denis; Solda, Lidia; Pastore, Paolo; Ammann, Markus; Huthwelker, Thomas

ACS Earth Space Chemistry 9(2025)649-661

DOI: [10.1021/acsearthspacechem.4c00359](https://doi.org/10.1021/acsearthspacechem.4c00359)

192. Importance of Attachment Efficiency in Determining the Fate of PS and PVC Nanoplastic Heteroaggregation with Natural Colloids Using a Multimedia Model

Abdolahpur Monikh, Fazel; Quik, Joris; Wiesner, Mark; Tapparo, Andrea; Pastore, Paolo; Grossart, Hans-Peter; Akkanen, Jarkko; Kortet, Raine; Kukkonen, Jussi, Environmental Science & Technology, 59(2025)4674-4683

DOI: [10.1021/acs.est.4c10918](https://doi.org/10.1021/acs.est.4c10918)

191. The Topology of Poly(2-methyl-2-oxazine) Shells on Nanoparticles Determines Their Interaction with Serum and Uptake by Immune Cells

Maria Morbidelli, Matteo Romio, Yashoda Chandorkar, Alexander Gogos, Cordula Hirsch, Barbora Kolrosova, Lucca Trachsel, Francesca Lorandi, Denis Badocco, Paolo Pastore,

Giorgio Arrigoni, Cinzia Franchin, Regina Tavano, Richard Hoogenboom,* Emanuele Papini,* and Edmondo M. Benetti, *Biomacromolecules*, 2025, 26(1)556–566
DOI: 10.1021/acs.biomac.4c01340

190. A Perspective on the Potential Impact of Micro and Nanoplastics on the Human Central Nervous System

Kimia Moiniafshari, Alessandra Zanut, Andrea Tapparo, Paolo Pastore, Sara Bogialli, Fazel Abdolapur Monikh, *Environmental Science-Nano* 12(2025)1809-1820

DOI: 10.1039/d4en01017e (REVIEW)

189. Metal speciation of volcanic aerosol from Mt. Etna under varying aerosol water content and pH obtained by different thermodynamic models
Environ. Sci.: Atmos., 5(2025)8–24.

188. Zuccagnia-type propolis: assessment of the antioxidant activity by LC-HRMS analysis of bioanalytical-guided fractions and computational investigation

Eliana Rita Solorzano, Marco Roverso, Sara Bogialli, Marco Bortoli, Laura Orian, Denis Badocco, Silvia Pettenuzzo, Gabriella Favaro and Paolo Pastore

FOOD CHEMISTRY Food Chemistry 461 (2024) 140827.

DOI: doi.org/10.1016/j.foodchem.2024.140827

187. Analytical Methods for Quantifying PS and PVC Nanoplastic Attachment to Activated Sludge Bacteria and Their Impact on Community Structure

Fazel Abdolapur Monikh, Nhung H.A. Nguyen, Mandar Bandekar, Jakub Riha, Sara Bogalli2 Paolo Pastore, Hans-Peter Grossart, Alena Sevcu, *NanoImpact* 35 (2024) 100514.

DOI: <https://doi.org/10.1016/j.impact.2024.100514>

186. Enhancing Electrochemiluminescence Intensity Through Emission layer control

Chiara Mariani, Sara Bogialli, Francesco Paolucci, Paolo Pastore, Alessandra Zanut, Giovanni Valenti, *Electrochimica Acta* 489 (2024) 144256.

DOI: <https://doi.org/10.1016/j.electacta.2024.144256>

185. Eu(III)-doped calcium molybdate nano- and microstructures: microfluidic synthesis and morphology tuning via solvent dielectric constant and viscosity control.

Pietro Ostellaria, Francesca Tajolia, Ilaria Fortunatia, Tommaso Carofiglio, Denis Badocco, Paolo Pastore, Silvia Gross, *ACCEPTED*.

DOI: 10.1039/D4CE00549J

184. Real-time monitoring of the pH of white Wine and Beer with Colorimetric Sensor Arrays (CSAs)

Andrea Pastore, Denis Badocco, Luca Cappellin, Mauro Tubiana, Paolo Pastore

Food Chemistry 452 (2024) 139513.

183. Laser-optimized Pt-Y alloy nanoparticles embedded in Pt-Y oxide matrix for high stability and ORR electrocatalytic activity.

Riccardo Brandiele, Andrea Guadagnini, Mattia Parnigotto, Federico Pini, Vito Coviello, Denis Badocco, Paolo Pastore , Gian Andrea Rizzi, Andrea Vittadini, Daniel Forrer, Vincenzo Amendola , Christian Durante , *Journal of Energy Chemistry*, 92(2024)508-520.

182. Accurate prediction of the optical properties of nanoalloys with both plasmonic and magnetic elements.

Vito Coviello, Denis Badocco, Paolo Pastore, Martina Fracchia, Paolo Ghigna, Alessandro Martucci, Daniel Forrer, Vincenzo Amendola, *Nature Communications* | (2024)1 5:834.

DOI: <https://doi.org/10.1038/s41467-024-45137-x> .

181. Accurate pH monitoring of highly concentrated saline aqueous solutions (Seawater) with a pH Colorimetric Sensor Array.

Andrea Pastore, Denis Badocco, Luca Cappellin, Mauro Tubiana, Alessandra Zanut, Sara Bogialli, Paolo Pastore, *ACS SENSORS*, (2024)

DOI: <https://doi.org/10.1021/acssensors.3c02585ACS>

180. Positively charged organosilanes covalently linked to the silica network as modulating tools for the salinity correction of pH values obtained with Colorimetric Sensor Arrays (CSAs)

Andrea Pastore, Denis Badocco, Luca Cappellin, Mauro Tubiana, Paolo Pastore, *SENSORS* 24(2024)417

DOI: <https://doi.org/10.3390/s24020417>

179. Corrosion of 316L exposed to highly concentrated borated water used as shield in nuclear fusion experimental reactors cooling circuits

Claudia Gasparrini, James Douglas, Arshad Yazdanpanah, Ryan Stroud, Giorgio Divitini, Manuele Dabala, Giuseppe Scatigno, Stella Pedrazzini, Mark Wenman, Denis Badocco, Paolo Pastore, Nicholas Terranova, Giovanni Mariano, Frederic Dacquait, Mauro Dalla Palma, Rosaria Villari, Piergiorgio Sonato, *Corrosion Sciences* 230(2024)111902

DOI: <https://doi.org/10.1016/j.corsci.2024.111902>

178. Pterodon emarginatus seed: Preparations, Antiradical Activity, Chemical Characterization, and in Silico ADMET Parameters of β -caryophyllene and farnesol

Guglielmina Froidi, Francesco Benetti, Andrea Mondin, Marco Roverso, Elisa Pangrazzi, Francine Medjiofack Djeu, Paolo Pastore, *Molecules* (2023) in press.

177. In vitro evaluation of 3D sphene scaffolds and bovine bone grafts: chemical, biological, and microbiological assays.

Sivolella S, Brunello G, Nika E, Badocco D, Pastore P, Carturan SM, Bernardo E, Elsayed H, Biasetto L, Brun P, *Journal of Materials Chemistry B*, 11(2023)8775-8787.

176. Tuning the Framework of Thioether-Functionalized Polyazamacrocycles: Searching for a Chelator for Theranostic Silver Radioisotopes

Tosato, Marianna; Franchi, Sara; Dalla Tiezza, Marco; Orian, Laura; Gyr, Thomas; Alker, Andre; Zanon, Giordano; Pastore, Paolo; Andrichetto, Alberto; Koester, Ulli; Jensen, Mikael; Maecke, Helmut; Asti, Mattia; Di Marco, Valerio, *Inorganic Chemistry* ??(2923)??

175. Metallic functionalization of magnetic nanoparticles facilitates a selective removal of Glyphosate from surface water

Raghav Dogra, Marco Roverso, Giuseppe di Bernardo, Alessandra Zanut, Fazel A. Monikh, Paolo Pastore and Sara Bogialli, *ACS-NANO*, 10(2023)2399-2411

174. Status of SPIDER beam source after the first 3.5 years of operation

M. Pavei, C. Gasparrini, G. Berton, M. Agostini, V. Candela, V. Candeloro, C. Cavallini, M. Dan, S. Denizeau, M. Fadone, B. Pouradier Duteil, A. La Rosa, N. Marconato, B. Segalini, M. Spolaore, S.M. Deambrosis, E. Miorin, F. Montagner, D. Badocco, P. Pastore, R. Nocentini, S. Dal Bello, L. Grando, M. Boldrin, D. Marcuzzi, A. Rizzolo, E. Sartori, P. Sonato, G. Serianni, *Fusion Engineering and Design*, 192(2023)113831.

173. A Laser Synthesis Route to Boron-Doped Gold Nanoparticles Designed for X-Ray Radiotherapy and Boron Neutron Capture Therapy Assisted by CT Imaging

Scaramuzza Stefano, de Faria Clara M.G., Coviello, Vito, Forrer Daniel, Artiglia Luca, Badocco Denis, Pastore Paolo, Ghigna Paolo, Postuma Ian, Cansolino Laura, Ferrari Cinzia, Bortolussi Silva, Vago Riccardo, Spinelli Antonello E., Bekić Marina, Čolić Miodrag, Amendola Vincenzo, *Advanced Functional Materials*, (2023).

172. From Nanothermometry to Bioimaging: Lanthanide Activated KY3F10 Nanostructures as Biocompatible Multifunctional Tools for Nanomedicine

Cressoni, Chiara; Vurro, Federica; Milan, Emil; Mucilli, Matilde; Mazzer, Francesco; Gerosa, Marco; Boschi, Federico; Spinelli, Antonello; Badocco, Denis; Pastore, Paolo; Fernandez Delgado, Natalia; Herrera-Collado, Miriam; Marzola, Pasquina; Speghini, Adolfo, *Applied Materials & Interfaces*, 15(2023)12171-12188.

171. Mass spectrometry-based “omics” technologies for the study of gestational diabetes and the discovery of new biomarkers

Marco Roverso, Raghav Dogra, Silvia Visentin, Silvia Pettenuzzo, Luca Cappellin, Paolo Pastore, Sara Bogialli, *Mass Spectrometry Reviews*, 42(2023)1424–1461.

170. South American Medicinal Plants for the Symptomatic Treatment of Benign Prostatic Hyperplasia: A Systematic Review.

Eliana Rita Solorzano, Paolo Pastore, Davide Grisafi, *Journal of Medicinal Herbs* 13:3(2022)1-10.

169. Exploring volatile organic compound emission from thermally modified wood by PTR-ToF-MS

Romano, Andrea; Cappellin, Luca; Cuccui, Ignazia; Bogialli, Sara; Khomenko, Iuliia; Tonezzer, Matteo; Biasioli, Franco; Pastore, Paolo; Allegretti, Ottaviano, *Analyst* 147(2022)5138-5148.

168. Corrosion and metal release of Copper and Stainless Steel exposed to Ultrapure Water.

C. Gasparini, N. Terranova, L. Di Pace, D. Badocco, P. Pastore, F. Montagner, L. Mattarozzi, R. Villari, E. Martelli, S. Roccella, G.G. Scatigno, R. Rizzieri, S. Pedrazzini, M. Dalla Palma, P. Sonato, *IEEE Transactions on Plasma Science* (2022) in press.
OPEN ACCESS

167. Monitoring in vitro and in vivo aroma release of espresso coffees with Proton-Transfer-Reaction Time-of-Flight Mass Spectrometry
Andrea Romano, Luca Cappellin, Sara Bogialli, Paolo Pastore, Luciano Navarini, Franco Biasioli, *Applied Sciences*, (2022) in press.
OPEN ACCESS

166. Water chemistry in fusion cooling systems: concentrated borated water for DTT vacuum vessel
C. Gasparini, N. Terranova, L. Di Pace, D. Badocco, P. Pastore, F. Montagner, L. Mattarozzi, R. Villari, E. Martelli, S. Roccella, G.G. Scatigno, R. Rizzieri, S. Pedrazzini, M. Dalla Palma, P. Sonato, *IEEE Transactions On Plasma Science*, 2022 in press.

165. 2,4,6-Trichloroanisole off-flavor screening in green Coffea arabica by a novel Vocus NO+ CI-MS method: a study on green coffee from different geographical origins
Romano, Andrea; Navarini, Luciano; Lonzarich, Valentina; bogialli, sara; Pastore, Paolo; Cappellin, Luca, *Journal of Agricultural and Food Chemistry* 70(2022)11412-11418.

164. Importance of R-CH₃O tetrel bonding and vinylaryl stacking interactions in stabilizing the crystal packing of 2',4'-dihydroxy-3'-methoxychalcone: Exploration of antileishmanial activity and molecular docking studies
Eliana Rita Solórzano, Paolo Pastore, Alessandro Dolmella, Silvia Cazorlac, María Lucrecia Arias Cassará, Sankaran Venkatachalam Sankarane, Subbiah Thamotharane, Diego M. Gilf, *Journal of Molecular Structure* 1265(2022)133357.

163. Intestinal Absorption study of a granular form of Ferric Pyrophosphate
Marta Micheletto, Elisa Gaio, Erik Tedesco, Giovanni Di Maira, Etienne Mantovan, Michela Zanella, Paolo Pastore, Marco Roverso, Gabriella Favaro and Federico Benetti, *Metabolites*, 12(2022)463.

162. Emerging investigator series: aqueous-phase processing of atmospheric aerosol influences dissolution kinetics of metal ions in an urban background site in the Po Valley
Chiara Giorio, Sara D'Aronco, Valerio Di Marco, Denis Badocco, Francesco Battaglia, Lidia Soldà, Paolo Pastore, Andrea Tapparo, *Environmental Science Processes & Impacts*, 24(2022)884-897.

161. Bioaccumulation of mercury and other trace elements in the edible holothurian Holothuria (Halodeima) atra in relation to gold mining activities in North Sulawesi, Indonesia
Marco Tamburini, Denis Badocco, Riccardo Ercadi, Eva Turicchia, Greta Zampa, Fabio Gasparini, Lorian Ballarin, Roberta Guerra, Markus T. Lasut, Daisy M. Makapedua, Jane Mamujaja, Paolo Pastore, Massimo Ponti, *Frontiers in Marine Science*, 9(2022)863629.

160. Mitochondrial cytochrome c oxidase defects alter cellular homeostasis of transition metals
Michele Brischigliaro, Denis Badocco, Rodolfo Costa, Carlo Viscomi, Massimo Zeviani, Paolo Pastore, Erika Fernández-Vizarra, *Frontiers in Cellular and Developmental Biology*, 10(2022)892069

159. Single-walled carbon nanohorns as boosting surface for the analysis of low-molecular weight compounds by SALDI-MS
Marco Roverso, Roberta Seraglia, Raghav Dogra, Denis Badocco, Silvia Pettenuzzo, Luca Cappellin, Paolo Pastore, Sara Bogialli, *International Journal of Molecular Sciences*, 23(2022)5027.

158. Mass spectrometry-based “omics” technologies for the study of gestational diabetes and the discovery of new biomarkers
Marco Roverso, Raghav Dogra, Silvia Visentin, Silvia Pettenuzzo, Luca Cappellin, Paolo Pastore, Sara Bogialli, *Mass Spectrometry Reviews*, (2022)1–38.

157. Derivatization, an Applicable Asset for Conventional HPLC Systems without MS Detection in Food and Miscellaneous Analysis
Raghav Dogra, Mohit Kumar, Arvind Kumar, Marco Roverso, Sara Bogialli, Paolo Pastore & Uttam Kumar Mandal, *Critical Reviews in Analytical Chemistry*, 2022 – in press.

156. When Ring Makes the Difference: Coordination Properties of Cu²⁺/Cu⁺ Complexes with Sulphur-Pendant Polyazamacrocycles for Radiopharmaceutical Applications

Valerio Di Marco, Marianna Tosato, Matteo Pelosato, Sara Franchi, Abdirisak Ahmed Isse, May Nora, Giordano Zaroni, Fabrizio Mancin, Paolo Pastore, Denis Badocco, Mattia Asti, *New Journal of Chemistry*, 46(2022)10012-10025.

155. Modeling the Dichromatic Behaviour of Bromophenol Blue to Enhance the Analytical Performance of pH Colorimetric Sensor Arrays

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Autore del capitolo dal titolo “Tecniche di rivelazione amperometriche ad impulsi: principi ed impiego in alcune analisi alimentari” presentato nel volume “La cromatografia ionica nell’analisi alimentare” edito dalla Nuova Poligrafica Milanese nel Novembre 2001, pag 181-214.

Autore del capitolo dal titolo “Alternative alla rivelazione conduttimetrica in IC” presente nel volume “IC: attualità, evoluzione, prospettive” edito dalla Morgan Edizioni Tecniche (Milano) nell’ottobre del 2004, pag 121-146.

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Solorzano Eliana Rita, Dal Maso Elisa, Pastore Paolo, Montecchio Lucio, Frasconi Marco, Bogialli Sara, 2017.

PRIN: Nuovi sensori elettrochimici per misure in condizioni stazionarie e in flusso

PRIN: Sensori elettrochimici: aspetti tecnologici, termodinamici, cinetici

PRIN: Nuovi materiali, nanotubi di carbonio, e nuovi processi generanti elettrochemiluminescenza per la realizzazione di sensori elettrochimici

PRIN: Uso di complessi di metalli di transizione inglobati in strati sottili polimerici organici, inorganici o ibridi, per la preparazione di sensori luminescenti ed elettrochemiluminescenti.

PRIN: Sensori chimici e tecniche strumentali accoppiate in spettrometria di massa per il controllo della sicurezza alimentare

PROGETTO Europeo con il gruppo di Fisici di Padova: TAp WAtER RAdioactivity Real Time Monitor” funded by the EU FP7 Security Programme under grant agreement no. 312713.

Progetto Regionale FSE dal titolo: veicolazione di principi attivi con sistemi nanotecnologici per la cura endoterapica delle malattie degli alberi (2015-135-2121-2015)

Ha ottenuto finanziamenti dall’industria per la progettazione di sensori ottici per ossigeno e per numerosi altri progetti riguardanti l’analisi chimica applicata a matrici ambientali ed industriali e per lo sviluppo di formulazioni in endoterapia vegetale.

Invitato a tenere seminari sui processi di elettrochemiluminescenza e sulle tecniche amperometriche di analisi presso diversi Istituti Nazionali.

Invitato come docente e relatore su diversi aspetti della rivelazione in cromatografia ionica alla I, II, IV, V Scuola di Cromatografia Ionica organizzata dall’Università di Torino e dalla Dionex corp. negli anni 1995, 1996, 2000, 2002.

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali.

DATI PERSONALI

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000)

Il sottoscritto Paolo Pastore consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel seguente curriculum vitae, redatto in formato europeo, corrispondono a verità.

Data __10/09/2025__

Firma