

Curriculum vitae

PERSONAL INFORMATION Enrico Bodo

📍 Chemistry Department, University of Rome "La Sapienza". P. A. Moro 5, 00185 Rome, Italy

✉ enrico.bodo@uniroma1.it

🌐 <https://sites.google.com/uniroma1.it/enricobodo/home>

🆔 [ORCID 0000-0001-8449-4711](https://orcid.org/0000-0001-8449-4711)

📅 **Date of birth** 13 August 1972 | **Nationality** Italian

PERSONAL SKILLS

Mother tongue Italian
Other languages English, fluent

DIGITAL SKILLS

Operating systems Unix/Linux (advanced), MacOSX, Windows
Programming Fortran (advanced), Bash scripting

ACADEMIC APPOINTMENTS

Dec 2023—today Full Professor in [Physical Chemistry](#) at the University of Rome La Sapienza in the Chemistry Department.
2015—2023 Associate Professor in [Physical Chemistry](#) at the University of Rome La Sapienza in the Chemistry Department.
2004—2015 "Researcher" (Assistant Professor) at the University of Rome La Sapienza in the Chemistry Department.
2002 April—2003 December PostDoc in the theoretical chemistry group of Prof. Gianturco at the University of Rome La Sapienza in the Chemistry Department. Research project: [Dynamical studies of the energetic processes in molecular gases at ultra-low temperatures](#)

Invited Professor

2017 November Institut de Chimie Physique, CLIO, Université Paris Saclay, Orsay, France.
2015 June Institut de Chimie Physique, CLIO, Université Paris-Sud, Orsay, France.

Qualification

2016 and 2023 Qualification for Full Professor in [Physical Chemistry](#).
2013 Qualification for Associate Professor in [Inorganic Chemistry](#) and in [Physical Chemistry](#).

Visits

2013—2014 Collaborator and recurring short-term visitor at [LAMBE](#) (Laboratoire Analyse et Modélisation pour la Biologie et l'Environnement) Evry, Cedex, France.
2004—10 Collaborator and recurring short-term visitor at [ITAMP](#) (Harvard Smithsonian Center for Astrophysics) Cambridge Massachusetts, USA.
2001 Visiting fellow of the [ITAMP](#) institute under the supervision of Prof. A. Dalgarno, Harvard Smithsonian Center for Astrophysics, Cambridge, Massachusetts, USA.

EDUCATION

1999—2001 PhD in Chemistry, Department of Chemistry, University of Rome La Sapienza. Supervisor: Prof. F. A. Gianturco. Dissertation title: [The Lithium chemistry in the early Universe: quantum treatment of interactions and dynamics](#).

21-May-1998 *Laurea* (equivalent to a Master's Degree) in Chemistry at the University of Rome La Sapienza ([magna cum laude](#)).

ACADEMIC COORDINATION AND ORGANIZATION

- 12/2022—present Elected member of the [Board of the Theoretical and Computational Chemistry Division](#) of the Italian Chemical Society
- 12/2020—12/2022 Elected member of the [Board of the Faculty of Science](#) of the University of Rome La Sapienza
- 2019—present Member of the [Research and outreach committee](#) of the Chemistry Department of the University of Rome La Sapienza
- 2012—2020 Member of the committee for [Quality Assurance of the Faculty of Science](#) of the University of Rome La Sapienza
- 2011—present Member of the [graduate studies \(PhD\) committee of the Chemistry Department](#) of the University of Rome La Sapienza

TEACHING ACTIVITIES

- 2021/22—present Course for the Bachelor Degree in Chemical Sciences at the University of Rome La Sapienza: [Chemical Physics II](#) (9 credits).
- 2020 Teaching excellence award conferred by the Faculty of Sciences for the course of Physical Chemistry II. The award is based on the results of the student questionnaires.
- 2018 Teaching excellence award conferred by the Faculty of Sciences for the course of Physical Chemistry II. The award is based on the results of the OPIS questionnaires.
- 2017/18—2020/2021 Course for the Bachelor Degree in Chemistry at the University of Rome La Sapienza: [Chemical Physics II](#) (9 credits).
- AA 2015/16—2016/17 Course for the Bachelor Degree in Chemistry at the University of Rome La Sapienza: [Chemical Physics III](#) (3 credits).
- 2015 Course for the Chemical Science PhD school: "*Density Functional Theory: a guide for the study of complex materials*" (3 credits).
- 2010/11—present Course for the Master's Degree in Chemistry at the University of Rome La Sapienza: [Laboratory of Quantum Mechanics and Molecular Dynamics](#) (9 credits).
- 2006/07—2008/09 Course for the Master's Degree in Chemistry at the University of Rome La Sapienza: [Quantum Mechanics](#) (50 hours).
- 2006/07—2008/09 Course for the Master's Degree in Chemistry at the University of Rome La Sapienza: [Computer Science Technologies for Chemistry](#) (50 hours).
- 2004/05—2009/10 Course for the Master's Degree in Chemistry at the University of Rome La Sapienza: [Application of Quantum Mechanics](#) (40 hours).

Outreach and Third Mission Activities

- 19-Set-2023 Speaker for the *Research Nights* with a lecture entitled [The origin of the periodic table elements](#), Department of Chemistry of La Sapienza. This was an educational event for high school students.
- 21-Dic-2022 Speaker at the *Christmas Seminars* held at the Chemistry Department of La Sapienza, with a lecture entitled [The voyage of a proton in the universe](#). This was an educational event for high school students.
- 19-Set-2022 Speaker for the *Research Nights* with a lecture entitled [The elements of the periodic table](#), Department of Mathematics of La Sapienza. This was an educational event for high school students.
- 5-May-2022 Invited speaker to the *Space, last frontier*, a series of conferences, organized by Discovery Link, with a lecture on astrochemistry held at the Chemistry Department of La Sapienza
- 30-Nov-2021 Speaker at *Lezioni a Palazzo* for the project "Tre Stazioni per Arte-Scienza", Palaexpo, Rome. Educational event held inside the Palaexpo museum for a general public.
- 11-Nov-2019 Speaker at the *Giornata per i 150 anni della Tavola Periodica degli Elementi*, Rome 1 Research Area, CNR, Montelibretti. This was an educational event for high school students.

2-Dec-2019 Speaker at the *Christmas Seminars* held at the Chemistry Department of La Sapienza, with a lecture entitled [The history of the atoms from the Big Bang to today](#). This was an educational event for high school students.

PhD Students and Postdoc

2023—2026 PhD: Alessandro Azzali
PhD: Francesca D'Ambrosio

2023—2025 Postdoc: Adriano Pierini

2022—2025 PhD: Matteo Farina (Prof. I. Daidone, co-supervisor)
PhD: Marcello Della Sala (Prof. P. D'Angelo, co-supervisor)

2021—2024 PhD: Vanessa Piacentini

2020—2023 PhD: Stefano Russo, Polarizable Force Field for amino acid based ionic liquids: An extension of AMOEBA force field

2020—2021 Postdoc: Andrea Le Donne

2019—2022 PhD: Adriano Pierini, Computational study of electron-transfers and singlet oxygen in aprotic metal-O₂ batteries.
PhD: Mohammed Salha, (Prof. G. Chass, co-supervisor), Constitution, Configuration and Conformation: Molecular engineering of tougher cement.

2018—2021 PhD: Henry Adenusi, Proton Transfer Mechanisms in Protic Ionic Liquids.

2017—2019 PhD: Andrea Le Donne, Study of Dry Proton Mobility Inside Liquids: the Particular Case of Amino Acid-Based Ionic Liquids.

2014-2015 Postdoc: Maria Montagna

Master's Students

2024 Eleonora Zucca

2023 Alessandro Azzali, Aurora Capitani, Francesca D'Ambrosio

2022 Leonardo Biancorosso, Simone Pistillo, Guido Giannetti

2021 Sara Marando, Gabriele Dilena, Vanessa Piacentini, Matteo Farina

2020 Federica Angiolari, Alice Latini, Simone Amatori, Stefano Onofri

2019 Adriano Pierini, Nicole Mancini, Martina Sebastianelli, Stefano Russo

2005—2018 Aurora Ponzi, Gabriele Lanaro, Luigi Tiburzi, Mara Chiricotto, Silvana Vasile, Marco Pezzella, Veronica Macaluso, Flavio Siro Brigiano, Andrea Le Donne, Giulia Bovolenta

EVALUATIONS ACTIVITIES AND MEMBERSHIPS

2023 Evaluator for the [Executive Agency for Higher Education, Research, Development and Innovation Funding](#) (UEFISCDI), Bucarest, Romania. Program: *PNRR-18-2022*.

2022 Evaluator for the [National Science Centre Poland](#), Poland, Program: *OPUS-23*, Panel ST8.

2021—present Evaluator for the [Executive Agency for Higher Education, Research, Development and Innovation Funding](#) (UEFISCDI) Bucarest, Romania. Programs: *Postdoctoral Research Projects (PD 2021)* and *Research Projects for Stimulating Young Independent Teams (TE 2021)*.

2021—present Member of the Selection Panel in the [STORIES](#) Project (Storage Research Infrastructure Ecosystem) Horizon 2020.

2020 Evaluator for the [Executive Agency for Higher Education, Research, Development and Innovation Funding](#) (UEFISCDI), Bucarest, Romania. Programs: *Postdoctoral Research Projects (PD 2019)* and *Research Projects for Stimulating Young Independent Teams (TE 2019)*.

2018 Referee for the German Research Foundation (DFG), (Bohn, Germany).

2016 Evaluator for the [Executive Agency for Higher Education, Research, Development and Innovation Funding](#) (UEFISCDI), Bucarest, Romania. Program *National Plan for Research, Development and Innovation for the period 2015 - 2020*.

- 2015 Referee for the [Materials Genome Initiative](#) of the US Department of Energy (Washington DC). Section "Computational Materials Sciences Program"
- 2012—present Referee for the Italian agency for research evaluation (ANVUR Italy).
- 2011—present Referee of the ISCRA, Italian SuperComputing Resource Allocation (CINECA, Bologna, Italy).
- 2009—present EB is a referee for many international journals, such as: *J. Phys. B*, *J. Comp. Chem.*, *Chem. Phys. Lett.*, *Eur. J. Inorg. Chem.*, *J. Chem. Phys.*, *J. Phys. Chem.*, *Phys. Chem. Chem. Phys.*, *J. Mol. Struct.*, *Surface Science*, *ChemPhysChem*, *Int. J. of Quant. Chem.*, *Symmetry*, *ACS Omega*, *J. Comp. Chem. Organic and Biomolec. Chem.*, *Electronic Structure*, *Appl. Materials and Interfaces*, *J. Mol. Liq.*, *J. Phys. Cond. Matter.*, *Symmetry*, *Molecules*.
- 2009—2019 Member of the American Chemical Society.
- 2006—present Member of the Italian Society of Chemistry.

EDITORIAL ACTIVITIES

- 2022 *Guest Editor* of the special issue [Ionic Liquids and Deep Eutectic Solvents: Greener Approaches for Sustainable Chemistry](#) in *Symmetry*.
- Nov. 2021—oggi *Editor in chief* of [Liquids](#).
- 2020—oggi Membro del comitato editoriale di [Molecules](#) (WOS IF 4.927, indicizzata Scopus).
- 2020—oggi Membro del comitato editoriale di [Symmetry](#) (WOS IF 2.940, indicizzata Scopus).
- 2020 *Guest Editor* of the special issue [Theoretical Computational Description of Ionic Liquids](#) in *Molecules*.

FUNDING INFORMATION

Research grants (received as the P.I.)

- 2023 Financial support of 50000 Euro for a PhD bursary from "CloudWise" company for the *Development of Machine Learning force fields for the characterization and the design of electrolytes for new generation solid-state batteries*.
- 2018 Research Grant from La Sapienza, University of Rome *Exploring Proton Transfer in Biocompatible Protic Ionic Liquids with Computational Methods*: 15000 Euro.
- 2018 Research Grant from La Sapienza, University of Rome *Multidisciplinary study of intrinsic properties of model chiral molecules*: 54,000 €
- 2019 Visiting scientist grant from the University of Rome Sapienza for prof. G. Chass, QMUL, London, UK.
- 2017 Research Grant from La Sapienza, University of Rome *Multidisciplinary study of intrinsic properties of chiral molecules*: 12,000 €
- 2015 Research Grant from La Sapienza, University of Rome *Characterising new generation ionic liquids by theory and experiments: the role of phosphate and bi-sulphide groups on proton transfer and conductivity*: 51,000 €
- 2014 Research Grant from La Sapienza, University of Rome *Aminoacid anions in organic compounds: exploring the boundary of room temperature ionic liquids*: 40,000 €
- 2011 Research Grant from La Sapienza, University of Rome *The structure of metal-containing compounds in protic ionic liquids: theoretical and experimental studies*: 80,000 €
- 2008 Research grant from the Faculty of Science, La Sapienza, University of Rome: *Elementary chemical reactions and molecular dynamics at low temperatures*: 4000 €
- 2009 Visiting scientist grant from the University of Rome Sapienza for prof. A. Belyaev, S. Peterburg Russia.
- 2007 Research grant from the Faculty of Science, La Sapienza, University of Rome: *Elementary chemical reactions at ultra-low temperatures*: 4000 €

Computational grants (received as the P.I. with peer-review)

- 2022 [HPC-access](#): Tier-0 grant of 6.400.000 corehours. *Polarizable Molecular Dynamics of Biocompatible Ionic Liquids*.

- 2021 [PRACE](#) (Partnership for advanced computing in Europe) Tier-0 Grant of 3,200,000 corehours. Project title: *Understanding the Role of Aluminium in Cements by Ab-initio Modelling*
- 2017 [PRACE](#) (Partnership for advanced computing in Europe) Tier-0 Grant of 30,000,000 corehours. Project title: *Exploring Proton Transfer in Ionic Liquids*
- 2014 [PRACE](#) (Partnership for advanced computing in Europe) Tier-0 Grant of 27,000,000 corehours. Project title: *Amino-acid anions in organic compounds: charting the boundary of room temperature ionic liquids*
- 2013 [PRACE](#) (Partnership for advanced computing in Europe) Tier-0 Grant of 18,000,000 corehours. Project title: *Ab initio molecular dynamics of lanthanides in protic ionic liquids*.
- 2007—today many different computational projects from CASPUR (Rome) and from Cineca (Bologna) for a total of about 4,000,000 core/hours on various architectures.

Participation to other grants

- 2022— National center 4, spoke 13, project: *Enabling technologies for sustainable mobility: electrochemical energy storage and electric traction*
- 2022— Extended network 2, spoke 9, project: *Energy-Sustainable Advanced Materials: from theoretical design to experimental synthesis and characterization*
- 2021 European project [SIGNE, Composite Silicon/Graphite Anodes with Ni-Rich Cathodes and Safe Ether based Electrolytes for High Capacity Li-ion Batteries](#) Horizon Europe Framework Programme
- 2017 National project [PRIN 2017: Cutting-edge X-ray methods and models for the understanding of surface site reactivity in heterogeneous catalysts and sensors](#)
- 2009 National project [PRIN 2009: Structural characterization of ionic liquids between -200 and 200 Celsius degrees temperatures](#)
- 2006 National project [PRIN 2006: Theoretical models and computational methods for the study of molecular processes at low and ultra-low temperature](#)
- 2006 National project [PRIN 2004: Theoretical models and computational methods of the quantum structures and dynamics in molecules and molecular aggregates in neutral and ionized forms](#)

SUMMARY OF SCIENTIFIC ACHIEVEMENTS

E. B. is coauthor of [150 publications](#) on international refereed journals and [5 book chapters](#). His *h-index* is [30](#) (source Scopus) and has collected a total of around [2865 citations](#) (source Scopus).

ORGANIZATION AND CHAIRS AT NATIONAL AND INTERNATIONAL CONFERENCES

- 2023 Scientific Committee for the VIII National Congress of Theoretical and Computational Chemistry Division, Pisa (September 20-22).
- 2022 Conference Chair of the First Symposium for YouNg Chemists: Innovation and Sustainability (SYNC2022), Chemistry Department, La Sapienza, Rome (June, 20-23).
- 2019 Organizing committee: XLVII National Congress of the Physical Chemistry Division of the Italian Chemical Society, La Sapienza, Rome, (July 1-3).
- 2015 Organizing committee of the III Congress of the Division of Theoretical and Computational Chemistry of the Italian Chemical Society, CNR, sede centrale, Rome (December 14-16).
- 2008 Organizing committee: Control Of Molecular Processes Induced by Electrons and Photons: Experiments and Interpretations A Congress in Honor of Prof. Hotop, Beniamino Segre Interdisciplinary Center Accademia Nazionale dei Lincei, Rome, (October 2-4).
- 2005 Organizing committee: EPIC-EIPAM 2005 Meeting, Joint conference for the EPIC and EIPAM EU networks, S. Martino al Cimino, Italy (June 25-30).
- 2003 Organizing committee: Theoretical concepts and recent experimental results on cold molecules, Volterra, Italy, (September 22-27).

LECTURES AND SEMINARS
(ONLY RECENT)

- 2023 Keynote Speaker: *Computational modeling of new generation batteries: a study of parasitic chemistries and of electrolytes properties.*, XLIX National Congress of Physical Chemistry Physical Chemistry: a fresh glimpse into the microscopic world, Torino (4-7 September 2023).
- 2023 Invited Lecture: *Investigating gas-phase reactive pathways toward polyatomic molecules in the interstellar medium*, Winter Modeling 2023 - New frontiers in astrochemistry and astrobiology, Naples (February 22-23, 2023)
- 2022 Invited lecture: *Computational approaches for biocompatible ionic liquids.*, VII Congress of the Division of Theoretical and Computational Chemistry of the Italian Chemical Society, Modena (September, 21-24, 2022)
- 2022 Invited lecture: *Computational studies of the reactive pathways leading to the parasitic release of singlet oxygen in metal-air batteries*, XLVIII National Conference of the Physical Chemistry Division of the Italian Chemistry Society., Genova (4-7 July 2022)
- 2022 Oral presentation: *Biocompatible and green ionic liquids: a computational description, challenges and perspectives*, XIII Convegno INSTM sulla Scienza e Tecnologia dei Materiali, Sestriere (TO) (23 al 26 January 2022)
- 2021 Invited Seminar: *Isomerization patterns and proton transfer in ionic liquids: crossing the boundary between the ionic and neutral phase.* Helmholtz Institute Ulm (HIU) Electrochemical Energy Storage Ulm, Germany. (November 3, 2021)
- 2020 Oral presentation: *Isomerization patterns and proton transfer in ionic liquids: toward new conducting media*, Workshop of the division of Physical Chemistry of the Italian Chemical Society (14-15 December 2020)
- 2018 Oral presentation: *Isomerization patterns and proton transfer in the molecular constituents of protic ionic liquids probed by ab-initio computations.* 6th International Conference on Ionic Liquids for Electrochemistry, Rome, Italy (ILED-6) (September 9-11, 2018).
Invited lecture: *New insights in protic ionic liquids from theoretical calculations.* International Workshop on Soft Matter and Biophysics Theories, Beijing, China (January 28-31, 2018).
- 2017 Oral presentation: *Proton Mobility in Protic Ionic Liquids: New Results from Theoretical Calculations* XXIX IUPAP Conference in Computational Physics (CCP2017), University Pierre et Marie Curie - Sorbonne, Paris, France (July 9-13, 2017)
- 2017 Oral presentation: *Proton mobility in protic Ionic Liquids.* III Congresso della Divisione di Chimica Teorica e Computazionale, Pisa, Italy (October 2-5, 2016).
- 2016 Oral presentation: *The structure of ionic liquids from molecular dynamics: recent results.* International Meeting on Ionic Liquids for Electrochemical Devices ILED, Rome, Italy (July 11-13 2016).
- 2015 Invited lecture: *The Structure of Ionic Liquids from Molecular Dynamics: Recent Results.* XVIII – Simposio Brasileiro de Quimica Teorica, Pirenopolis, Goias, Brasil (November 22-25 2015).
Oral presentation: *Ionic liquids from a molecular perspective.* CMAST Workshop: Computational Materials Science and Technology. CRESCOENEA, Italy, (April 13, 2015).
- 2014 Oral presentation: *Amino Acid Anions in Organic Ionic Compounds: Charting the Boundary of Room Temperature Ionic Liquids.* Winter Modeling, Modena, Italy (March 13-14, 2014).
- 2013 Oral presentation: *Ionic liquids from a molecular perspective.* XLI Congresso della Divisione di Chimica Fisica, Alessandria, Italy. (June 25-27, 2013).
Oral presentation: *Ionic liquids from a molecular perspective.* II Congresso della Divisione di Chimica Teorica e Computazionale, Padova, Italy (February 20-22, 2013).
- 2012 Invited Seminar: *The Structure of Ionic Liquids from a Molecular Perspective.* The Analysis and Modeling laboratory for Biology and Environment (LAMBE), Univ. of Évry-val-d'Essonne, Evry Cedex, France, (November 2012).
- 2011 Oral presentation: *The structure of ionic liquids based on geminal imidazolium: a theoretical study.* XXIV Congresso Nazionale della Società Chimica Italiana, Lecce, Italy (September 11-16, 2011).

Oral presentation: *Theoretical simulations of ionic liquids*. 110th Bunsentagung (Annual German Conference on Physical Chemistry), invitation in the special EuChemMS session, Freien Universität Berlin, Germany (June 2-4, 2011)

- 2010 Oral presentation: *Atomistic Simulation of Ionic Liquids: Dissecting Their Local Structure with Combined Experimental and Theoretical Determinations*. XXXIX Congresso Nazionale della Divisione di Chimica Fisica, Stresa, Italy (September 20-24, 2010).

Oral presentation: Atomistic simulations of imidazolium-based ionic liquids: current challenges for theoretical models. International conference on Ionic Liquids for Electrochemical Devices (ILED-2), CNR, Roma, Italy (2010).

Oral presentation: *The stereochemistry of sulphoxides: theoretical treatment of the inversion process*. 8th workshop on Molecular Theories and simulations, Gaeta, Italy (May 24-26 2010).

PUBLICATION LIST

151. A. Petrongari, V. Piacentini, A. Pierini, P. Fattibene, C. De Angelis, E. Bodo, and S. Brutti, *Insights into the Li Redox Mediation in Aprotic Li–O₂ Batteries: Solvation Effects and Singlet Oxygen Evolution*, ACS Appl. Mater. Interfaces, (2023)
<https://doi.org/10.1021/acsami.3c12330>
150. A. Pierini, A. Petrongari, V. Piacentini, S. Brutti, E. Bodo* *A Computational Study on Halogen/Halide Redox Mediators and Their Role in ¹O₂ Release in Aprotic Li–O₂ Batteries*, J. Phys. Chem. A, **127**, 9229–9235, (2023)
<https://doi.org/10.1021/acs.jpca.3c05246>
149. M. Salha, H. Adenusi, J. H. Dupuis, E. Bodo, B. Botta, I. McKenzie, R. Y. Yada, D. H. Farrar, J. Magolan, K. V. Tian, G. A. Chass, *Bioactivity of the cannabigerol cannabinoid and its analogues – the role of 3-dimensional conformation*, Org. Biomol. Chem., **21**, 4683–4693, (2023)
<https://doi.org/10.1039/D3OB00383C>
148. G. Dilena, S. Pistillo and E. Bodo*, *About the Formation of NH₂OH⁺ from Gas Phase Reactions under Astrochemical Conditions*, Molecules, **28**, 2932, (2023)
<https://doi.org/10.3390/molecules28072932>
147. M. S. Salha, R. Y. Yada, D. H. Farrar, G. A. Chass, K. V. Tian and E. Bodo, *Aluminium catalysed oligomerisation in cement-forming silicate systems*, Phys. Chem. Chem. Phys., **25**, 455–461 (2023)
<https://doi.org/10.1039/d2cp03918d>
-
146. Y. Jiang, S. Indrajith, A. F. P. Mellor, T. Bürgi, M. Lecouvey, C. Clavaguéra, E. Bodo, C. Houée-Levin, E. Loire, G. Berden, J. Oomens, and D. Scuderi, *Final Products of One-Electron Oxidation of Cyclic Dipeptides Containing Methionine Investigated by IRMPD Spectroscopy: Does the Free Radical Choose the Final Compound?*, J. Phys. Chem. B, **126**, 10055–10068 (2022)
<https://doi.org/10.1021/acs.jpcc.2c06541>
145. A. Di Sabato, F. D'Acunzo, D. Filippini, F. Vetica, A. Brasiello, D. Corinti, E. Bodo, C. Michenzi, E. Panzetta, and P. Gentili, *Unusually Chemoselective Photocyclization of 2-(Hydroxyimino)aldehydes to Cyclobutanol Oximes: Synthetic, Stereochemical, and Mechanistic Aspects*, J. Org. Chem. (2022), **87**, 13803–13818
<https://doi.org/10.1021/acs.joc.2c01503>
144. M. Fuse, G. Longhi, G. Mazzeo, S. Stranges, F. Leonelli, G. Aquila, E. Bodo, B. Brunetti, C. Bicchi, C. Cagliero, J. Bloino, and S. Abbate *Anharmonic Aspects in Vibrational Circular Dichroism Spectra from 900 to 9000 cm⁻¹ for Methyloxirane and Methylthiirane*, J. Phys. Chem. A, **126**, 6719–6733, (2022)
<https://doi.org/10.1021/acs.jpca.2c05332>
143. S. Russo, E. Bodo*, *A polarisable force field for bio-compatible ionic liquids based on amino acids anions*, Mol. Simul., **48**, 1650–1659 (2022)
<https://doi.org/10.1080/08927022.2022.2113810>
142. V. Piacentini, A. Le Donne, S. Russo and E. Bodo*, *A Computational Analysis of the Reaction of SO₂ with Amino Acid Anions: Implications for Its Chemisorption in Biobased Ionic Liquids* Molecules, **27**, 3604, (2022)
<https://doi.org/10.3390/molecules27113604>
141. P. O'Keeffe, D. Catone, S. Turchini, A. Paladini, A. Dalla Cort, E. Bodo and S. Piccirillo, *Excited state dynamics of Zn–salophen complexes*, Photochem. Photobiol. Sci., **21**, 923–934, (2022)
<https://doi.org/10.1007/s43630-021-00165-0>
140. E. Bodo*, *Perspectives in the Computational Modeling of New Generation, Biocompatible Ionic Liquids*, J. Phys. Chem. B, **126**, 3–13 (2022)
<https://doi.org/10.1021/acs.jpcc.1c09476>
139. A. Le Donne, S. Russo, E. Bodo*, *Assessing the Propensity Toward Ionization in Nanosized Clusters of Protic Ionic Liquids by Ab-initio Methods*, Chem. Phys., **552**, 111365 (2022)
<https://doi.org/10.1016/j.chemphys.2021.111365>
-
138. (Editorial) E. Bodo *Welcome to Liquids: An Open Access Journal*, Liquids, **1**, 75–76 (2021)
137. A. Pierini, S. Brutti, and E. Bodo*, *Reactions in non-aqueous alkali and alkaline-earth metal-oxygen batteries: a thermodynamic study*, Phys. Chem. Chem. Phys., **23**, 24487 - 24496 (2021)
<https://doi.org/10.1039/D1CP03188K>
136. A. Pierini, S. Brutti, and E. Bodo*, *Study of the Electronic Structure of Alkali Peroxides and Their Role in the Chemistry of Metal–Oxygen Batteries*, J. Phys. Chem. A, **125**, 9368–9376 (2021)
<https://doi.org/10.1021/acs.jpca.1c07255>
135. A. Pierini, S. Brutti and E. Bodo*, *Reactive pathways toward parasitic release of singlet oxygen in metal-air batteries*, npj Computational Materials **7**, 126 (2021)
<https://doi.org/10.1038/s41524-021-00597-3>

134. F. Ripanti, C. Fasolato, F. Mazzarda, S. Palleschi, M. Ceccarini, C. Li, M. Bignami, E. Bodo, S. E. J. Bell, F. Mazzei, and P. Postorino, *Advanced Raman Spectroscopy Detection of Oxidative Damage in Nucleic Acid Bases: Probing Chemical Changes and Intermolecular Interactions in Guanosine at Ultralow Concentration*, *Anal. Chem.*, **93**, 10825-10833, (2021).
<https://doi.org/10.1021/acs.analchem.1c01049>
133. S. Onofri and E. Bodo* *CO₂ Capture in Biocompatible Amino Acid Ionic Liquids: Exploring the Reaction Mechanisms for Bimolecular Absorption Processes*, *J. Phys. Chem. B*, **125**, 5611–5619, (2021).
<https://doi.org/10.1021/acs.jpcc.1c02945>
132. A. Le Donne, H. Adenusi, F. Porcelli and E. Bodo*, *Hydrogen bonding in biocompatible ionic liquids: an ab-initio characterization of dimeric interactions*, *Electronic Structure*, **3**, 025004, (2021).
<https://doi.org/10.1088/2516-1075/abfd21>
131. E. Bodo*, *Modelling biocompatible ionic liquids based on organic acids, and amino acids: challenges for computational models and future perspectives*, *Org. Biomol. Chem.*, **19**, 4002-4013, (2021).
<https://doi.org/10.1039/D1OB00011J>
130. A. Le Donne, E. Bodo*, *Cholinium amino acid-based ionic liquids*, *Biophys Rev*, **13**, 147-160, (2021).
<https://doi.org/10.1007/s12551-021-00782-0>
129. E. Bodo*, M. Bonomo, and A. Mariani, *Assessing the Structure of Protic Ionic Liquids Based on Triethylammonium and Organic Acid Anions*, *J. Phys. Chem. B*, **125**, 2781–2792, (2021)
<https://doi.org/10.1021/acs.jpcc.1c00249>
-
128. S. Onofri, A. Le Donne, H. Adenusi, E. Bodo* *CO₂ Capture in Ionic Liquids Based on Amino Acid Anions With Protic Side Chains: a Computational Assessment of Kinetically Efficient Reaction Mechanisms*, *ChemistryOpen*, **9**, 1153 – 1160 (2020).
<https://doi.org/10.1002/open.202000275>
127. A. Pierini, S. Brutti and E. Bodo* *Superoxide Anion Disproportionation Induced by Li⁺ and H⁺: Pathways to ¹O₂ Release in Li-O₂ Batteries*, *ChemPhysChem*, **21**, 2060 – 2067 (2020).
<https://doi.org/10.1002/cphc.202000318>
126. H. Adenusi, G. Chass and E. Bodo* *Theoretical Insights into the Structure of the Aminotris(Methylene-phosphonic Acid) (ATMP) Anion: A Possible Partner for Conducting Ionic Media*, *Symmetry*, **12**, 920 (2020).
<https://doi.org/10.3390/SYM12060920>
125. H. Adenusi, A. Le Donne, F. Porcelli and E. Bodo* *Ab Initio Molecular Dynamics Study of Phospho-Amino Acid-Based Ionic Liquids: Formation of Zwitterionic Anions in the Presence of Acidic Side Chains*, *J. Chem. Phys. B.*, **124**, 1955-1964, (2020).
<https://doi.org/10.1021/acs.jpcc.9b09703>
124. E. Bodo*, *Structural Features of Triethylammonium Acetate through Molecular Dynamics*, *Molecules*, **25**, 1432 (2020).
<https://doi.org/10.3390/molecules25061432>
-
123. E. Bodo*, G. Bovolenta, C. Simha, R. Spezia *On the formation of propylene oxide from propylene in space: gas-phase reactions*, *Theor. Chem. Acc.*, **138**, 97 (2019).
<https://doi.org/10.1007/s00214-019-2485-3>
122. A. Le Donne, H. Adenusi, F. Porcelli and E. Bodo* *Structural Features of Cholinium Based Protic Ionic Liquids through Molecular Dynamics*, *J. Phys. Chem. B*, **123**, 5568-5576 (2019).
<https://doi.org/10.1021/acs.jpcc.9b03314>
121. A. Ciavardini, M. Coreno, C. Callegari, C. Spezzani, G. De Ninno, B. Ressel, C. Grazioli, M. de Simone, A. Kivimaki, P. Miotti, F. Frassetto, L. Poletto, C. Puglia, S. Fornarini, E. Bodo, M. Pezzella and S. Piccirillo, *Ultra-Fast-VUV Photoemission Study of UV Excited 2-Nitrophenol*, *J. Phys. Chem. A*, **123**, 1295-1302 (2019).
<https://doi.org/10.1021/acs.jpca.8b10136>
120. D. Corinti, A. Maccelli, B. Chiavarino, P. Maitre, D. Scuderi, E. Bodo, S. Fornarini, and Maria Elisa Crestoni *Vibrational signatures of curcumin's chelation in copper(II) complexes: An appraisal by IRMPD spectroscopy* *J. Chem. Phys.* **150**, 165101 (2019).
<https://doi.org/10.1063/1.5086666>
119. B. D. Linford, A. Le Donne, D. Scuderi, E. Bodo and Travis D Fridgen, *Strong intramolecular hydrogen bonding in protonated *b*-methylaminoalanine: A vibrational spectroscopic and computational study*, *Eur. J. Mass Spectr.*, **25**, 133-141, (2019).
<https://doi.org/10.1177/1469066718791998>
-
118. A. Le Donne, H. Adenusi, F. Porcelli, and E. Bodo*, *Hydrogen Bonding as a Clustering Agent in Protic Ionic Liquids: Like-Charge vs Opposite-Charge Dimer Formation*, *ACS Omega* **3**, 10589-10600, (2018).
<https://doi.org/10.1021/acsomega.8b01615>
117. M. C. Castrovilli, P. Bolognesi, E. Bodo, G. Mattioli, A. Cartonib and L. Avaldi *An experimental and theoretical investigation of XPS and NEXAFS of 5-halouracils*, *Phys. Chem. Chem. Phys.*, **20**, 6657, (2018).
<https://doi.org/10.1039/c8cp00026c>

116. M. Campetella, A. Le Donne, M. Daniele, L. Gontrani, S. Lupi, E. Bodo* and F. Leonelli, *Hydrogen Bonding Features in Cholinium-Based Protic Ionic Liquids from Molecular Dynamics Simulations*, J. Phys. Chem. B, **122**, 2635-2645, (2018).
<https://doi.org/10.1021/acs.jpcc.7b12455>
115. E. Bodo*, A. Le Donne *Isomerization patterns and proton transfer in ionic liquids constituents as probed by ab-initio computation*, J. Mol. Liq., **249**, 1075-1082 (2018).
<https://doi.org/10.1016/j.molliq.2017.11.152>
-
114. M. Montagna, R. Spezia, E. Bodo* *Solvation Properties of the Actinide Ion Th(IV) in DMSO and DMSO:Water Mixtures through Polarizable Molecular Dynamics*, Inorg. Chem. **56**, 11929-11937 (2017).
<https://doi.org/10.1021/acs.inorgchem.7b01900>
113. A. Ciavardini, S. Fornarini, A. Dalla Cort, S. Piccirillo, D. Scuderi, and E. Bodo* *Experimental and Computational Investigation of Salophen-Zn Gas Phase Complexes with Cations: A Source of Possible Interference in Anionic Recognition*, J Phys. Chem. A **121**, 7042-7050, (2017).
<https://doi.org/10.1021/acs.jpca.7b05825>
112. M. Montagna, R. Spezia and E. Bodo*, *Structural and energetic properties of La³⁺ in water/DMSO mixtures*, J. Mol. Struct. **1148**, 381-387, (2017).
<https://doi.org/10.1016/j.molstruc.2017.07.068>
111. M. Campetella, M. Montagna, L. Gontrani, E. Scarpellini and E. Bodo*, *Unexpected Proton Mobility in the bulk phase of Cholinium-based Ionic Liquids. New Insights from Theoretical Calculations*, Phys. Chem. Chem. Phys. **19**, 11869 - 11880, (2017).
<https://doi.org/10.1039/c7cp01050h>
110. A. Ciavardini, A. Dalla Cort, S. Fornarini, D. Scuderi, A. Giardini, G. Forte, E. Bodo* *Adenosine monophosphate recognition by zinc-salophen complexes: IRMPD spectroscopy and quantum modeling study*, J. Mol. Spectr., **335**, 108-116, (2017).
<https://doi.org/10.1016/j.jms.2017.02.014>
-
109. D. Scuderi, E. Bodo, B. Chiavarino, S. Fornarini, M. E. Crestoni *Amino-acids oxidation: a combined study of cysteine oxo-forms by IRMPD spectroscopy and simulations*, Chem. Eur. J. **22**, (2016).
<https://doi.org/10.1002/chem.201603298>
108. Allegretti, M., Aramini A., Barile F., Bodo E., Daidone I., Guzzo T., Mandaliti W, Nepravishta R.,f, Topai A. and Paci M. *The conformational change in the mechanism of host-guest inclusion complex of Ketoprofen in cyclodextrin : NMR spectroscopy, ab initio calculations, molecular dynamics simulations and photoreactivity*, J. Phys. Chem. B, **120**, 10668-10678 (2016).
<https://doi.org/10.1021/acs.jpcc.6b07913>
107. M. Campetella, E. Bodo*, M. Montagna, S. De Santis and L. Gontrani *Theoretical study of ionic liquids based on the cholinium cation. Ab initio simulations of their condensed phases*, J. Chem. Phys. **144**, 104504 (2016).
<https://doi.org/10.1063/1.4943197>
106. M. Montagna, Y. Jeanvoine, R. Spezia and E. Bodo* *Structure, Stability and Electronic Properties of DMSO and DMF clusters containing Th⁴⁺*. J. Phys. Chem. A **120**, 4778-4788 (2016).
<https://doi.org/10.1021/acs.jpca.5b12007>
-
105. E. Bodo*, R. Spezia and V. Macaluso, *Solvent Structure Around Lanthanoids(III) Ions in Liquid DMSO as Revealed by Polarizable Molecular Dynamics Simulations*, J. Phys. Chem. B., **119**, 13347-13357 (2015).
<https://doi.org/10.1021/acs.jpcc.5b06317>
104. E. Bodo*, *Lanthanum(III) and Lutetium(III) in Nitrate-based Ionic Liquids: A Theoretical Study of Their Coordination Shell* J. Phys. Chem. B., **119**, 11833-11838 (2015).
<https://doi.org/10.1021/acs.jpcc.5b06387>
103. M. Campetella, E. Bodo*, R. Caminiti, A. Martino, F. D'Apuzzo, S. Lupi and L. Gontrani *Interaction and dynamics of ionic liquids based on Choline and amino-acids anions*. J. Chem. Phys., **142**, 234502 (2015).
<https://doi.org/10.1063/1.4922442>
-
102. E. Bodo, M. Chiricotto, R. Spezia, *Structural, Energetic and Electronic Properties of La(III)-DMSO Clusters*, J. Phys. Chem. A, **118**, 11602-11611, (2014)
101. E. Bodo, A. Ciavardini, A. Dalla Cort, I. Giannicchi, F. Yafteh Mihan, S. Fornarini, S. Vasile, D. Scuderi, S. Piccirillo, *Anion recognition by uranyl-salophen derivatives as probed by IRMPD spectroscopy and ab-initio modeling*. Chem. Eur. J., **20**, 11783 - 11792, (2014).
100. M. P. Donzello, G. De Mori, D. Futur, Z. Fu, M. L. Astolfi, C. Rizzoli, C. Ercolani, a L. Mannina, E. Bodo*, and K. M. Kadish, *UV-Visible, Experimental and DFT/Time-Dependent DFT Studies on Neutral and One-Electron-Reduced Quinoxaline and Pyrazine Precursors and Their Mononuclear (Pd^{II}, Pt^{II}) Derivatives*, Eur. J. Inorg. Chem., **2014**, 3572-3581, (2014).

99. A. Benedetto, E. Bodo*, L. Gontrani, P. Ballone and R. Caminiti, *Amino-acid anions in organic ionic compounds. An ab-initio study of selected ion pairs*, J. Phys. Chem. B, **118**, 2471, (2014).
98. E. Bodo, S. Mangialardo, F. Capitani, L. Gontrani, F. Leonelli, and P. Postorino *Interaction of a Long Alkyl Chain Protic Ionic Liquid and Water*, J. Phys. Chem., **140**, 204503, (2014).
97. C. Battocchio, I. Fratoddi, L. Fontana, E. Bodo, F. Porcaro, C. Meneghini, I. Pisc, S. Nappini, S. Mobilio, M.V. Russo, G. Polzonetti *Silver nanoparticles linked by Pt-containing organometallic dithiol bridge: study on local structure and interface by XAFS and SR-XPS*, Phys. Chem. Chem. Phys. **16** 11719-28, (2014)
-
96. S. Piccirillo, A. Ciavardini, E. Bodo, F. Rondino, D. Scuderi, V. Steinmetz, A. Paladini, *Probing the competition among different coordination motifs in metal - ciprofloxacin complexes through IRMPD spectroscopy and DFT calculations* Inorg. Chem., **52**, 103-112, (2013).
95. M. Alagia, E. Bodo*, P. Decleva, S.Falcinelli, A. Ponzi, R. Richter and S. Stranges* *Soft x-ray absorption spectrum of the allyl free radical*, Phys. Chem. Chem. Phys., **15**, 1310-1318, (2013).
94. A. Ruggi, R. Cacciapaglia, S. Di Stefano, E. Bodo, F. Ugozzoli, *Naphthalenophane Formaldehyde Acetals as Candidate Structures for the Generation of Dynamic Libraries via Transacetalation Processes*, Tetrahedron, **69**, 2767-2774, (2013).
93. M. Campetella, L. Gontrani, E. Bodo, F. Ceccacci, F. C. Marincola, R. Caminiti *Conformational Isomerisms and Nano-Aggregation in Substituted Alkylammonium Nitrates Ionic Liquids: an X-ray and Computational Study of 2-OMeEAN* J. Chem. Phys. **138**, 184506, (2013)
92. E. Bodo*, S. Mangialardo, P. Postorino, A. Sferrazza, and R. Caminiti, *A Prototypical Ionic Liquid Explored by Ab-initio Molecular Dynamics*, J. Chem. Phys. **139**, 144309 (2013)
-
91. E. Bodo, A. Ciavardini, A. Giardini, A. Paladini, S. Piccirillo, F. Rondino, D. Scuderi, *Infrared Multiple Photon Dissociation Spectroscopy of Ciprofloxacin: Investigation of the Protonation Site*, Chem. Phys., **398**, 124 (2012).
90. I. Fratoddi, E. S. Bronze-Uhle, A. Batagin-Neto, D. M. Fernandes, E. Bodo, C. Battocchio, I. Venditti, F. Decker, M.V. Russo, G. Polzonetti, C. F. O. Graeff, *Structural Changes of conjugated Pt-containing polymetallaynes exposed to gamma-ray radiation doses*, J. Phys. Chem C, **116**, 8768 (2012)
89. E. Bodo*, S. Mangialardo, F. Ramondo, F. Ceccacci, and P. Postorino, *Unravelling the Structure of Protic Ionic Liquids with Theoretical and experimental methods: Ethyl-, Propyl- and Butyl Ammonium Nitrate Explored by Raman spectroscopy and DFT calculations* J. Phys. Chem. B, **116**, 13878-13888 (2012).
88. L. Gontrani, E. Bodo*, A. Triolo, F. Leonelli, P. D'Angelo, V. Migliorati, R. Caminiti. *The interpretation of diffraction patterns of Protic Ionic Liquids: a challenging task for classical molecular dynamics simulations*, J. Phys. Chem. B, **116**, 13024-13032 (2012)
-
87. O. Lanzalunga, L. Mandolini, S. Di Stefano, M. Mazzonna, E. Bodo, *Photoinversion of Sulfoxides as a Source of Diversity in Dynamic Combinatorial Chemistry* Org. Lett., **13**; 142-145, (2011).
86. A. Batagin-Neto, E. Bronze-Uhle, D. Fernandes, I. Fratoddi, I. Venditti, F. Decker, E. Bodo, M.-V. Russo, C. Graeff, *Optical Behavior of Conjugated Pt-containing Polymetallaynes Exposed to Gamma-ray Radiation Doses*, J. Phys Chem C, **115**, 8047 (2011).
85. P. D'angelo, A. Zitolo, V. Migliorati, E. Bodo, G. Aquilanti, J.-L. Hazemann, D. Testemale, G. Mancini, R. Caminiti, *X-Ray absorption spectroscopy investigation of 1-alkyl-3-methylimidazolium bromide salts* J. Chem. Phys., **135**, 074505 (2011).
84. P. Zhang, A. Dalgarno, R. Cotê, E. Bodo*, *Charge exchange in collisions of Beryllium with its ion*. Phys. Chem. Chem. Phys., **13**, 19026-19035 (2011).
83. M.-P. Donzello, G. De Mori, C. Ercolani, E. Bodo, L. Mannina, D. Capitani, C. Rizzoli, L. Gontrani, G. Aquilanti, K. M. Kadish, P. D'Angelo, *Structural Flexibility and Role of Vicinal 2-Thienyl Rings in 2,3-Dicyano-5,6-di(2-thienyl)-1,4-pyrazine, [(CN)2Th2Pz], its Palladium(II) Complex [(CN)2Th2Pz(PdCl2)2] and the Related Pentametallic Pyrazinoporphyrazines [(PdCl2)4Th8TPzPzM] (M = MgII(H2O), ZnII)*, Inorg. Chem. **50**, 12116-12125, (2011).
82. E. Bodo*, P. Postorino, S. Mangialardo, G. Piacente, F. Ramondo, F. Bosi, P. Ballirano, and R. Caminiti, *The Structure of the Molten Salt Methyl Ammonium Nitrate Explored by Experiments and Theory*, J. Phys. Chem. B, **115** (2011), 13149-13161.
81. E. Bodo*, M. Chiricotto and R. Caminiti, *The Structure of Geminal Imidazolium Bis(trifluoromethanesulfonyl)imide Dicationic Ionic Liquids: a Theoretical Study of the Liquid Phase*, J. Phys. Chem. B **115**, 14341-14347, (2011).
-
80. E. Bodo*, L. Gontrani, A. Triolo, and R. Caminiti *Structural determination of Ionic Liquids with theoretical methods: C₈mimBr and C₈mimCl. Strength and weakness of current force fields*. J. Phys. Chem. Lett. **1**, 1095-1100 (2010).
79. E. Bodo* and G. Lanaro *Theoretical treatment of the electronic excited states of the DMSO molecule: a challenge for current theoretical method*, Chem. Phys **337**, (2010), 136-141.

78. E. Bodo* and R. Caminiti The Structure of Geminal Imidazolium Bis-(trifluoromethyl-sulfonyl)amide Ionic Liquids: a Theoretical Study of the Gas Phase Ionic Complexes, *J. Phys. Chem. A*, **114**, 12506, (2010)
77. E. Bodo*, L. Gontrani, R. Caminiti, N. V. Plechkova, K. R. Seddon and A. Triolo, *Structural properties of 1-alkyl-3-methylimidazolium bis{(trifluoromethyl)sulfonyl}amide ionic liquids: X-ray Diffraction Data and Molecular Dynamics Simulations* *J. Phys. Chem. B*, **114**, 16398, (2010).
-
76. E. Coccia, E. Bodo, and F. A. Gianturco *Size-dependent solvation of p-H₂ in 4He clusters: A quantum Monte Carlo analysis* *J. Chem. Phys.* **130**, 094906 (2009)
75. M. Wernli, E. Scifoni, E. Bodo, F.A. Gianturco *A quantum modeling of the chemistry of LiH⁺ with He from ab initio calculations: Ionic reactions in He nanodroplets* *Int. J. of Mass Spectr.*, **280**, 57, (2009)
74. M. Wernli, D. Caruso, E. Bodo, and F. A. Gianturco *Computing a three-dimensional electronic energy manifold for the LiH + H \rightleftharpoons Li + H₂ chemical reaction* *J. Phys. Chem A*, **113**, 1121, (2009)
73. S. Bovino, E. Coccia, E. Bodo, D. Lopez-Duraán and F. A. Gianturco *Spin-driven structural effects in alkali doped ⁴He clusters from quantum calculations*, *J. Chem. Phys.* **130**, 224903 (2009)
72. P. Zhang, E. Bodo, and A. Dalgarno *Near Resonance Charge Exchange in Ion-Atom Collisions of Lithium Isotopes* *J. Phys. Chem. A* **113** 15085 (2009).
71. E. Bodo*, *Low and Ultra-low energy chemical processes involving ions* *Phys. Scripta.*, **80**, 048117, (2009)
-
70. E. Bodo* P. Zhang, A. Dalgarno, *Ultra-cold ion-atom collisions: near resonant charge exchange.* *New J. Phys.*, **10**, 033024 (2008)
69. E. Coccia, F. Marinetti, E. Bodo, and F.A. Gianturco *Anionic microsolvation in helium droplets: (OH⁻)(He)_N structures from classical and quantum calculations*, *J. Chem. Phys.*, **128**, 134511 (2008).
68. S. Bovino, E. Bodo, and F.A. Gianturco *Ultralow energy vibrational quenching in ionic collisions: Isotope effects in Li⁺+D₂ encounters* *Phys. Rev. A*, **77**, 042716 (2008)
67. E. Coccia, E. Bodo and F. A. Gianturco, *Nanoscopic phase changes in doped ⁴He droplets.* *Eur. Phys. Lett.*, **82**, 23001, (2008)
66. L. González-Sánchez, E. Bodo, E. Yurtsever, F.A. Gianturco, *Quenching efficiency of hot polar molecules by He buffer gas at ultralow energies: quantum results for MgH and LiH rotations.* *Eur Phys J. D* **48**, 75 (2008)
65. F. Leonelli, M. Capuzzi, E. Bodo, P. Passacantilli and G. Piancatelli, *Synthesis of New 2-Phosphono-alpha-D-Glycoside derivatives by Stereoselective Oxa-Michael Addition to D-Galacto Derived Enone* *CARBOHYD RES*, **343**, 1133, (2008)
64. S. Bovino, E. Bodo, E. Yurtsever, and F.A. Gianturco, *Vibrational cooling of spin-stretched dimer states by He buffer gas: Quantum calculations for Li₂(a³Σ_u⁺) at ultralow energies*, *J. Chem. Phys.* **128**, 224312, (2008)
63. L. González-Sánchez, M. Tacconi, E. Bodo, and F.A. Gianturco, *Ionic interactions and collision dynamics in cold traps: rotational quenching of OH⁻ (¹Σ⁺) by Rb(²S)*, *Eur. Phys. J. D*, **49**, 85-92, (2008)
62. E. Coccia, F. Marinetti, E. Bodo and F. A. Gianturco, *Chemical solutions in a quantum solvent: anionic "electrolytes" in ⁴He nanodroplets*, *ChemPhysChem*, **9**, 1323-1330, (2008)
61. D. López-Dúran, E. Bodo, F. A. Gianturco, *ASPIN: an all spin scattering code for atom molecule rovibrationally inelastic cross sections* *Comp. Phys. Comm.* **179**, 821 (2008)
60. F. Marinetti, E. Bodo, E. Yurtsever, F. A. Gianturco, *Energetics and structures of charged helium clusters: comparing stabilities of dimer and trimer cationic cores*, *ChemPhysChem* **9**, 2618, (2008)
-
59. F. Marinetti, E. Bodo and F. A. Gianturco, *Microsolvation of an ionic Dopant in small ⁴He clusters: OH⁺ (³Σ)(⁴He)_n via Genetic Algorithm Optimizations.* *ChemPhysChem*, **8**, 93, (2007)
58. E. Bodo, F.A. Gianturco, *Quenching of vibrationally excited molecules by ultracold collisions with ions: Controlling the scattering via changes of internal states* *Eur. Phys. Lett.* **77**, 33001 (2007)
57. M. Tacconi, E. Bodo, F.A. Gianturco, *Sympathetic cooling of NH(X³Σ) molecules by Rb and Cs atoms at ultralow energies* *Phys. Rev. A*, **75**, 012708, (2007)
56. E. Coccia, E. Bodo, F. Marinetti, F. A. Gianturco, E. Yildirim, M. Yurtsever and E. Yurtsever, *Bosonic helium droplets with cationic impurities: Onset of electrostriction and snowball effects from quantum calculations*, *J. Chem. Phys.*, **126**, 124319, (2007).
55. M. Tacconi, E. Bodo and F.A. Gianturco, *Interaction of NH(³XΣ⁻) with Rb and Cs atoms: similarities and differences from an highly correlated ab initio study* *Theor. Chem. Acc.*, **117**, 649-662, (2007)
54. E. Yurtsever, E. Yildirim, M. Yurtsever, E. Bodo, and F. A. Gianturco, *Solvation of K⁺ in Helium droplets*, *Eur. Phys. J. D*, **43**, 105, (2007)
53. L. González-Sánchez, E. Bodo and F.A. Gianturco, *Quenching of molecular ions by He buffer loading at ultralow energies: rotational cooling of OH⁺ (³Σ⁻) from quantum calculations*, *Eur Phys. J. D*, **44**, 65, (2007)

52. F. Marinetti, E. Coccia, E. Bodo, F. A. Gianturco, E. Yurtsever, M. Yurtsever, E. Yildirim, *Bosonic Helium Clusters Doped by Alkali Cations: Interaction Forces and Analysis of Their Most Stable Structures*, *Theor. Chem. Acc.*, **118**, 53, (2007)
51. M. Tacconi, L. Gonzalez-Sanchez, E. Bodo, F.A. Gianturco, *Collisions of $\text{NH}(\beta^3\Sigma^-)$ with Rb and Cs at ultralow energies: A quantum study of rotational cooling efficiency*, *Phys. Rev. A*, **76**, 032702 (2007)
50. M. Wernli, E. Bodo and F.A. Gianturco, *Rotational cooling efficiency upon molecular ionization: the case of $\text{Li}_2(a^3\Sigma_u^+)$ and $\text{Li}_2^+(X^2\Sigma_g^+)$ interacting with ^4He* , *Eur. Phys. J. D*, **45**, 267-272, (2007)
49. S. Bovino, E. Bodo, and F.A. Gianturco, *Collisional quenching at ultralow energies: Controlling efficiency with internal state selection*, *J. Chem. Phys.*, **127**, 224303 (2007).
48. B. C. Shepler, B. H. Yang, T. J. Dhilip Kumar, P. C. Stancil, J. M. Bowman, N. Balakrishnan, P. Zhang, E. Bodo, and A. Dalgarno, *Low energy H+CO scattering revisited: CO rotational excitation with new potential surfaces*, *Astronomy and Astrophysics*, **475** L15-L18, (2007).
47. F. Marinetti, Ll. Uranga-Pina, E. Coccia, D. López-Durán, E. Bodo, and F. A. Gianturco, *Microsolvation of cationic dimers in ^4He droplets: geometries of $\text{A}_2^+(\text{He})_N$ ($\text{A} = \text{Li}, \text{Na}, \text{K}$) from optimized energies.*, *J. Phys. Chem. A*, **111**, 12289, (2007)
46. L. González-Sánchez, E. Bodo, F. A. Gianturco, *Collisional quenching of rotations in lithium dimers by ultracold helium: the $\text{Li}_2(a^3\Sigma_u^+)$ and $\text{Li}_2^+(X^1\Sigma_g^+)$ targets*, *J. Chem. Phys.*, **127**, 244315 (2007)
45. E. Bodo, E. Coccia, D. López-Durán, and F. A. Gianturco, *Ionic dopants in He droplets: cluster energies from a variational and diffusion Monte Carlo approach*, *Phys. Scripta.*, **76**, C104-C110, (2007)
-
44. F. Sebastianelli, I. Baccarelli, E. Bodo, C. Di Paola, F. A. Gianturco and M. Yurtsever, *Microsolvation of Li^+ in Bosonic Helium Clusters. I: Many body effects on the structures of the small aggregates*, *Computational Materials Science* **35**, 261-267, (2006).
43. E. Bodo, M. Lara and F. A. Gianturco, *Isotopic replacement in ionic systems: the $^4\text{He}_2^+ + ^3\text{He} \rightarrow ^3\text{He}^4\text{He}^+ + ^4\text{He}$ reaction*, *J. Chem. Phys.* **124**, 044308 (2006).
42. E. Bodo, E. Yurtsever, M. Yurtsever and F. A. Gianturco, *Ionic dimers in He droplets: interactions potentials for $\text{Li}_2^+ - \text{He}$, $\text{Na}_2^+ - \text{He}$ and $\text{K}_2^+ - \text{He}$ and stability of the smaller clusters*, *J. Chem. Phys.* **124**, 074320 (2006).
41. L. González-Sánchez, E. Bodo, F. A. Gianturco, *Quantum scattering of $\text{OH}(X^2\Pi)$ with $\text{He}(^1S)$: propensity features in rotational relaxation at ultralow energies*, *Phys. Rev. A*, **73**, 022703, (2006)
40. E. Bodo and F. A. Gianturco, *Ultra-low energy behavior of an ionic replacement reaction $^4\text{He}_2^+ + ^3\text{He} \rightarrow ^3\text{He}^4\text{He}^+ + ^4\text{He}$* , *Phys. Rev. A*, **73**, 032702, (2006).
39. E. Bodo and F. A. Gianturco, *Vibrational quenching at ultralow energies: calculations of the $\text{Li}_2(^1\Sigma_g^+; \nu \gg 0) + \text{He}$ superelastic scattering cross sections*, *Phys. Rev. A*, **73**, 052715, (2006)
38. E. Bodo, F.A. Gianturco, *Collisional Quenching of molecular rovibrational energy by He buffer loading at ultralow energies* *Int. Rev. Phys. Chem.* **25**, 313, (2006).
37. L. Gonzalez-Sanchez, F. Marinetti, E. Bodo, F.A. Gianturco, *$\text{OH}^-(X^1\Sigma^+)$ Collisions with $^4\text{He}(1S)$ at vanishing energies: a quantum analysis of rotational quenching efficiency*, *J. Phys. B*, **39**, S1203, (2006).
36. F. Marinetti, E. Bodo and F. A. Gianturco, *Ionic OH as dopant of helium droplets: ab initio potential energy surfaces for $\text{OH}^+(\beta^3\Sigma^-) \cdot ^4\text{He}$, $\text{OH}^-(^1\Sigma^-) \cdot ^4\text{He}$ and stable structures of their smaller clusters*, *J. Theo. & Comput. Chem.* **5**, 543 (2006).
35. C. Di Paola, E. Bodo and F.A. Gianturco, *Adaptive clustering of a quantum solvent: the LiH^+ impurity in bosonic helium from stochastic calculations*, *Eur. Phys. J. D*, **40**, 377 - 385, (2006).
-
34. E. Bodo, F.A. Gianturco, and E. Yurtsever, *The Weak $\text{Li}_2 - \text{He}$ Interaction Revisited: a Combined Ab-Initio and Empirical Modelling*, *J. Low. Temp. Phys.*, **138**, 259, (2005).
33. C. Sanz, E. Bodo and F. A. Gianturco, *Energetics and Structure of the Bound States in a Lithium Complex: The LiH_2^+ Electronic Ground State* *Chem. Phys.*, **314**, 135, (2005).
32. E. Bodo, F. Sebastianelli, F. A. Gianturco and I. Pino, *Microsolvation of LiH^+ in Helium Clusters: many-body effects and additivity models for the interaction forces*, *J. Phys. Chem. A*, **109**, 4252, (2005).
31. J. Sabin Del Valle, E. Bodo, and F.A. Gianturco, *Rotational cooling of molecular gases by positron impact at vanishing collision energies*, *J. Phys. B*, **38**, 2069, (2005).
30. C. Di Paola, F. Sebastianelli, E. Bodo, I. Baccarelli, F. A. Gianturco and M. Yurtsever, *Microsolvation of Li^+ in Small He Clusters. $\text{Li}^+ \text{He}_n$ Species from Classical and Quantum Calculations*; *J. Chem. Theory and Comput.*, **1**, 1045, (2005).
29. E. Scifoni, E. Bodo, F.A. Gianturco, *Ionic Reactions in He nanodroplets: the LiHHe^+ complex and its possible energy pathways into products from ab-initio calculations*, *J. Chem. Phys.*, **122**, 224312, (2005)
28. E. Bodo, F. A. Gianturco, E. Yurtsever, M. Yurtsever, *Neutral and ionic dopants in helium clusters: interaction forces for the $\text{Li}_2(a^3\Sigma_u^+) \text{He}$ and $\text{Li}^+(X^2\Sigma_g^+) \text{He}$ complexes*, *Mol. Phys.*, **103**, 3223, (2005).

-
27. S. Telega, E. Bodo and F. A. Gianturco, *Rotationally inelastic collision of electrons with H₂ and N₂ molecules: converged space-frame calculations at low energies*, Eur. Phys. J. D, **29**, 357, (2004).
 26. E. Bodo F. A. Gianturco F. Sebastianelli E. Yurtsever M. Yurtsever, *Rotational cooling of Li₂(¹Σ_g⁺) molecules by ultracold collisions with an He gas buffer*, Theor. Chem. Acc., **112**, 263, (2005).
 25. E. Bodo F. A. Gianturco F. Sebastianelli E. Yurtsever M. Yurtsever, *Ab initio quantum dynamics with very weak Van der Waals interactions: structure and stability of small Li₂(¹Σ_g⁺) - ⁴He clusters*, J. Chem. Phys., **120**, 9160, (2004).
 24. E. Bodo and F. A. Gianturco, *Features of chemical reactions at vanishing kinetic energy: the presence of internally hot reagents*, Eur. Phys. J. D, **31**, 423, (2004)
 23. E. Bodo, F. A. Gianturco, N. Balakrishnan and A. Dalgarno, *Chemical reactions in the limit of zero kinetic energy: virtual states and Ramsauer minima in F + H₂ → HF + H*, J. Phys. B, **37**, 1, (2004).
 22. E. Scifoni, E. Bodo and F. A. Gianturco, *Charged cores in ionized ⁴He clusters III: a quantum model for the collisional relaxation dynamics*, Eur. Phys. J. D, **30**, 363, (2004)
-
21. R. Martinazzo, E. Bodo, and F. A. Gianturco, *A modified Variable-Phase algorithm for multichannel scattering with long-range potentials*, Comp. Phys. Comm., **151**, 187, (2003)
 20. R. Martinazzo, E. Bodo, F. A. Gianturco and M. Raimondi, *Three-dimensional reactive surfaces for the LiH₂⁺ system: an analysis of accurate ab-initio results*, Chem. Phys., **287**, 335, (2003).
 19. E. Bodo, F. A. Gianturco, and R. Martinazzo, *The gas-phase lithium chemistry in the early universe: elementary processes, interaction forces and quantum dynamics*, Phys. Rep., **384**, 85, (2003).
 18. R. Martinazzo, G. F. Tantardini, E. Bodo and F. A. Gianturco, *Accurate potential energy surfaces for the study of lithium-hydrogen ionic reactions*, J. Chem. Phys. , **119**, 11241, (2003).
 17. E. Bodo, F. A. Gianturco, *Collisional Cooling of Polar Diatomics in ³He and ⁴He Buffer Gas: A Quantum Calculation at Ultralow Energies*, J. Phys. Chem. A., **107**, 7328, (2003).
-
16. E. Bodo, F. A. Gianturco, and A. Dalgarno, *Quenching of vibrationally excited CO(ν = 2) molecules by ultra-cold collisions with ⁴He atoms*, Chem. Phys. Lett., **353**, 1, (2002).
 15. E. Bodo, A. Dalgarno, and F. A. Gianturco, *F+D₂ reaction at ultra-low temperatures*, J. Chem. Phys., **116**, 9222, (2002).
 14. C. Cecchi-pestellini, E. Bodo, N. Balakrishnan, and A. Dalgarno. *Rotational and vibrational excitation of CO molecules by collisions with He atoms*. ApJ, **571**, 1015, (2002),
 13. E. Bodo, A. Dalgarno, and F. A. Gianturco. *F+D₂ reaction at ultra-low temperatures, the effect of rotational excitation*, J. Phys. B, **35**, 2391, (2002).
 12. M. Satta, E. Bodo, R. Martinazzo and F.A. Gianturco, *Photoexcitation of LiH₂⁺ from selected initial states: a time-dependent model*, J. Chem. Phys., **117**, 177, (2002).
 11. E. Bodo, E. Scifoni, F. Sebastianelli, F.A. Gianturco, and A. Dalgarno, *Rotational quenching in ionic systems at ultra-cold temperatures*, Phys. Rev. Lett., **89** , (2002).
-
10. E. Bodo, F. A. Gianturco, R. Martinazzo, and M. Raimondi, *Computed orientational anisotropy and vibrational couplings for the LiH-H interaction potential*, Eur. Phys. J. D, **15**, 321, (2001).
 9. E. Bodo, F. A. Gianturco, R. Martinazzo, and M. Raimondi, *Possible reaction paths in the LiH₂⁺ chemistry: a computational analysis of the interaction forces*, Chem. Phys., **271**, 309, (2001).
 8. E. Bodo, F. A. Gianturco, and R. Martinazzo, *Reactive behavior of the LiH₂⁺ system I: Evaluation of the lower lying potentials for the collinear geometries*, J. Phys. Chem. A, **105**, 10986, (2001).
 7. E. Bodo, F. A. Gianturco, and R. Martinazzo, *Reactive behavior of the LiH₂⁺ system II: Collision induced dissociation and collinear reaction dynamics of LiH⁺ + H from quantum time dependent calculations*, J. Phys. Chem. A, **105**, 10994, (2001).
 6. R. Martinazzo, A. Famulari, M. Raimondi, E. Bodo, and F.A. Gianturco, *A multireference valence bond approach to electronic excited states*, J. Chem. Phys., **115**, 2917, (2001).
-
5. E. Bodo, F. A. Gianturco, R. Martinazzo, A. Forni, A. Famulari, and M. Raimondi, *Spatial energetics of protonated LiH: Lower-lying potential energy surfaces from valence bond calculations*, J. Phys. Chem. A, **104**, 11972, (2000).
 4. E. Bodo, F. A. Gianturco, R. Martinazzo, F. Paesani, and M. Raimondi, *Testing van der waals interactions with quantum dynamics: repulsive anisotropy and well depth in LiH-He system*, J. Chem. Phys., **113**, 11071, (2000).

3. E. Bodo, F. A. Gianturco, F. Paesani, *Testing intermolecular potentials with scattering experiments: He-CO rotationally inelastic scattering*, *Zeit. Phys. Chem.*, **214**, 1013, (2000).

2. E. Bodo, E. Buonomo, F.A. Gianturco, S. Kumar, A. Famulari, M. Raimondi, and M. Sironi, *Interaction anisotropy and quantum dynamics for vibrationally inelastic collision of $\text{LiH}({}^1\Sigma^+)$ with $\text{He}({}^1S)$* , *Chem. Phys.*, **237**, 315, (1998).
1. E. Bodo, S. Kumar, F. A. Gianturco, A. Famulari, M. Raimondi, and M. Sironi, *Vibrational heating efficiency of $\text{LiH}({}^1\Sigma^+)$ molecules in collision with $\text{He}({}^1S)$ atoms*, *J. Phys. Chem. A*, **102**, 9390, (1998).

Books Chapters

1. A. Mariani, L. Engelbrecht, A. Le Donne, F. Mocci, E. Bodo and S. Passerini *Disclosing the hierarchical structure of ionic liquid mixtures by multiscale computational methods* in *Theoretical and Computational Approaches to Predicting Ionic Liquid Properties*, A. Joseph and S. Mathew eds., Elsevier, Amsterdam, Netherlands, (2021)
2. S. Mangialardo, L. Baldassarre, E. Bodo, and P. Postorino, *Raman Spectroscopy in Ionic Liquids Under Variable Thermodynamic and Environmental Conditions*. in *The Structure of Ionic Liquids* R. Caminiti and L. Gontrani (Eds), Soft and Biological Matter, Elsevier, Amsterdam, Netherlands, (2013) .
3. E. Bodo and V. Migliorati *Theoretical Description of Ionic Liquids* in *The Structure of Ionic Liquids* R. Caminiti and L. Gontrani eds., Soft and Biological Matter, Elsevier, Amsterdam, Netherlands, (2013)
4. E. Bodo and V. Migliorati (2011). *Theoretical Description of Ionic Liquids* in *Ionic Liquids - Classes and Properties*, Scott T. Handy eds., InTech, (2011)
5. E. Coccia, E. Bodo, F. Marinetti and F.A. Gianturco E. Yurtsever, M. Yurtsever, E. Yildirim, *Quantum structuring of ^4He Atoms around Ionic Dopants: energetics of Li^+ , Na^+ and K^+ from Stochastic Calculations*. in *Latest Advances in Atomic Cluster Collisions: Structure and Dynamics from the Nuclear to the Biological Scale*, Imperial College Press.