

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

PUBLICATION LIST

150. A. Pierini, A. Petrongari, V. Piacentini, S. Brutti, E. Bodo* *A Computational Study on Halogen/Halide Redox Mediators and Their Role in $^1\text{O}_2$ Release in Aprotic Li–O₂ Batteries*, *J. Phys. Chem. A*, (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. Coté, 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)₂Th₂Pyz], its Palladium(II) Complex [(CN)₂Th₂Pyz(PdCl₂)₂] and the Related Pentametallic Pyrazinoporphyrazines [(PdCl₂)₄Th₈TPyzPz₄M] (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 ⇌ 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 by* 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 $\text{NH}(\beta^3X\Sigma^-)$ 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 $\text{OH}^+(\beta^3\Sigma^-)$ 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 $\text{OH}^+(\beta\Sigma)^{-4}\text{He}$, $\text{OH}^-(^1\Sigma)^{-4}\text{He}$ 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 Li_2 -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. Li^+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 H_2 and N_2 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 $\text{Li}_2(^1\Sigma_g^+)$ 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 $\text{Li}_2(^1\Sigma_g^+) - ^4\text{He}$ 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 $\text{F} + \text{H}_2 \rightarrow \text{HF} + \text{H}$* , 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 LiH_2^+ 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 $\text{CO}(\nu = 2)$ 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 LiH(¹Σ⁺) with 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 LiH(¹Σ⁺) molecules in collision with 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.