

MIRJANA ECKERT-MAKSIĆ – *List of Publications*

Scientific Articles

188. M. Eckert-Maksić, I. Antol & M. Vazdar, "Acetamide as the Model of the Peptide Bond: Nonadiabatic Photodynamical Simulations in the Gas Phase and in the Argon Matrix", *Computational and Theoretical Chemistry* **1040** (2014) 136–143.
187. Z. Glasovac & M. Eckert-Maksić, "Effect of Intramolecular Hydrogen Bonds on the Gas-Phase Basicity of Guanidines", *Australian Journal of Chemistry* **67** (2014) 1056–1062.
186. V. Štrukil, E. Leksić, E. Meštrović & M. Eckert-Maksić, "The Synthesis and Structural Characterization of Peralkylated Triguanide Superbases", *Australian Journal of Chemistry* **67** (2014) 1129–1133.
185. Z. Glasovac, P. Trošelj, I. Jušinski, D. Margetić & M. Eckert-Maksić, "Synthesis of Highly Basic Hexasubstituted Biguanides by Environmentally Friendly Methods", *Synlett* **24** (2013) 2540–2544.
184. Z. Glasovac, F. Pavošević, V. Štrukil, M. Eckert-Maksić, M. Schlangen & R. Kretschmer, "Toward Extension of the Gas-Phase Basicity Scale by Novel Pyridine Containing Guanidines", *International Journal of Mass Spectrometry* **354** (2013) 113–122.
183. V. Štrukil, Z. Glasovac, I. Đilović, D. Matković-Čalogović, L. Šuman, M. Kralj & M. Eckert-Maksić, "Triguanide Derivatives: Synthesis, Crystal Structure and Evaluation of the Proliferation Effect on Some Tumor Cell Lines", *European Journal of Organic Chemistry* (2012) 6785–6797.
182. T. Friščić, I. Halasz, V. Štrukil, M. Eckert-Maksić & R. E. Dinnebier, "Clean and Efficient Synthesis Using Mechanochemistry: Coordination Polymers, Metal-Organic Frameworks and Metallocdrugs", *Croatica Chemica Acta* **85** (2012) 367–378.
181. V. Štrukil, M. D. Igrc, M. Eckert-Maksić & T. Friščić, "Click Mechanochemistry: Quantitative Synthesis of "Ready to Use" Chiral Organocatalysts by Efficient Two-Fold Thiourea Coupling to Vicinal Diamines", *Chemistry—a European Journal* **18** (2012) 8464–8473.
180. V. Štrukil, M. D. Igrc, L. Fábián, M. Eckert-Maksić, S. L. Childs, D. G. Reid, M. J. Duer, I. Halasz, C. Mottillo & T. Friščić, "A Model for a Solvent-Free Synthetic Organic Research Laboratory: Click-Mechanosynthesis and Structural Characterization of Thioureas without Bulk Solvents", *Green Chemistry* **14** (2012) 2462–2473.
179. V. Štrukil, D. Margetić, M. D. Igrc, M. Eckert-Maksić & T. Friščić, "Desymmetrisation of Aromatic Diamines and Synthesis of Non-Symmetrical Thiourea Derivatives by Click-Mechanochemistry", *Chemical Communications* **48** (2012) 9705–9707.
178. I. Antol, M. Eckert-Maksić, M. Vazdar, M. Ruckenbauer & H. Lischka, "QM/MM Non-Adiabatic Decay Dynamics of Formamide in Polar and Non-Polar Solvents", *Physical Chemistry Chemical Physics* **14** (2012) 13262–13272.
177. V. Štrukil, I. Đilović, D. Matković-Čalogović, J. Saame, I. Leito, P. Šket, J. Plavec & M. Eckert-Maksić, "Molecular Structure and Acid/Base Properties of 1,2-Dihydro-1,3,5-Triazine Derivatives", *New Journal of Chemistry* **36** (2012) 86–96.
176. S. Faraji, M. Vazdar, V. S. Reddy, M. Eckert-Maksić, H. Lischka & H. Köppel, "Ab Initio Quantum Dynamical Study of the Multi-State Nonadiabatic Photodissociation of Pyrrole", *Journal of Chemical Physics* **135** (2011) 154310.
175. P. Naumov, Y. Topcu, M. Eckert-Maksić, Z. Glasovac, F. Pavošević, M. Kochunnoony & H. Hara, "Photoinduced Rearrangement of Aromatic N-Chloroamides to Chloroaromatic Amides in the Solid State: Inverted $\Pi(N)$ - $\Sigma(N)$ Occupational Stability of Amidyl Radicals", *Journal of Physical Chemistry A* **115** (2011) 7834–7848.
174. I. Škorić, F. Pavošević, M. Vazdar, Ž. Marinić, M. Šindler-Kulyk, M. Eckert-Maksić & D. Margetić, "Thermal Reaction of 3,4-Benzo-8-substituted-3Z,5Z,7E-octatetraenes and Quantum-Chemical Study of the (8 π ,6 π)-Electrocyclisation", *Organic & Biomolecular Chemistry* **9** (2011) 6771–6778.
173. D. Margetić, I. Zrinski-Antonac, Z. Glasovac, M. Eckert-Maksić & Lj. Maksimović, "Reactions of Dimethyl Carbonate with Aliphatic Amines under High Pressure", *Synthetic Communications* **41** (2011) 2283–2289.
172. D. Schröder, L. Duchácková, I. Jušinski, M. Eckert-Maksić, J. Heyda, L. Tůma & P. Jungwirth, "Characterization of the Triple Ion $(\text{CH}_3)_4\text{N}^+\bullet\text{PF}_6^-\bullet(\text{CH}_3)_4\text{N}^+$ in the Gas-Phase", *Chemical Physics Letters* **490** (2010) 14–18.
171. D. Margetić, M. Eckert-Maksić, P. Trošelj & Ž. Marinić, "Reaction of 2,5-Bis-Trifluoromethyl-1,3,4-Oxadiazole With 7-Oxanorbornenes Revisited: Experimental and Quantum-Chemical Study of Reaction Stereoselectivity", *Journal of Fluorine Chemistry* **131** (2010) 408–416.
170. Z. Glasovac, V. Štrukil, M. Eckert-Maksić, D. Schröder, M. Schlangen & H. Schwarz, "Coordination Chemistry of Nickel(II) Nitrate With Superbasic Guanidines as Studied by Electrospray Mass Spectrometry", *International Journal of Mass Spectrometry* **290** (2010) 22–31.
169. V. Štrukil, L. Fábián, D. G. Reid, M. J. Duer, G. J. Jackson, M. Eckert-Maksić & T. Friščić, "Towards an Environmentally-Friendly Laboratory: Dimensionality and Reactivity in the Mechanosynthesis of Metal-Organic Compounds", *Chemical Communications* **46** (2010) 9191–9193.
168. M. Eckert-Maksić, M. Vazdar, M. Ruckenbauer, M. Barbatti, T. Müller & H. Lischka, "Matrix-Controlled Photofragmentation of Formamide: Dynamics Simulation in Argon by Nonadiabatic QM/MM Method", *Physical Chemistry Chemical Physics* **12** (2010) 12719–12726.

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166. M. Eckert-Maksić, H. Lischka, Z. B. Maksić & M. Vazdar, "The Isomerization Barrier in Cyanocyclobutadienes: An *Ab Initio* Multireference Average Quadratic Coupled Cluster Study", *Journal of Physical Chemistry A* **113** (2009) 8351–8358.
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164. Z. Glasovac, M. Eckert-Maksić & Z. B. Maksić, "Basicity of Organic Bases and Superbases in Acetonitrile by the Polarized Continuum Model and DFT Calculations", *New Journal of Chemistry* **33** (2009) 588–597.
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161. I. Antol, M. Vazdar, M. Barbatti & M. Eckert-Maksić, "The Effect of Protonation on the Photodissociation Processes in Formamide - An *Ab Initio* Surface Hopping Dynamics Study", *Chemical Physics* **349** (2008) 308–318.
160. I. Antol, M. Barbatti, M. Eckert-Maksić & H. Lischka, "Quantum Chemical Calculations of Electronically Excited States: Formamide, its Protonated Form and Alkali Cation Complexes as Case Studies", *Monatshefte für Chemie* **139** (2008) 319–328.
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154. M. Eckert-Maksić & Z. Glasovac, "Computational Study of Deprotonation of Cyclopropane-Fused Quinones", *Polish Journal of Chemistry* **81** (2007) 1109–1121.
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