



Dr. Markus Horn

Dipl.-Chem.

Patent Attorney Candidate

Languages

German, English

Contact

Dr. Markus Horn Phone +49 89 210232-0 Fax +49 89 210232-65 mhorn@wallinger.com



Technical Expertise Chemistry Biotechnology

Legal Expertise

Trademarks and labels

Patent and utility model protection

Opposition and appeal proceedings

After obtaining his PhD in chemistry from Ludwig-Maximilians-University in Munich, Mr. Horn completed a one-year postdoctoral fellowship at Carnegie-Mellon University in Pittsburgh, before going to South Korea, where he worked as a researcher for Samsung SDI and Lotte Advanced Materials. He started as a patent attorney candidate at WR in April 2023.

Technical Background

Dr. Horn studied chemistry and biochemistry at the LMU in Munich. His focus of interest was on organic synthesis, kinetics of organic reactions, dye and polymer chemistry, as well as quantum chemistry.

During his doctoral studies, he prepared and analyzed triaryl carbenium ions with respect to their energetic and kinetic properties.

As a postdoctoral fellow at Carnegie-Mellon University in Pittsburgh, Dr. Horn studied the field of controlled radical polymerizations, and contributed to new insights into initiation reactions of atom transfer radical polymerizations (ATRP).

Dr. Horn was able to gain industrial experience in South Korea, where he worked as a researcher for Samsung SDI and Lotte Advanced Materials. His work aimed at the development of new polymer compound recipes for the automotive industry, including heat-resistant SAN and electrically conductive and dimensionally stable polyamide blends.









Technical Expertise Chemistry Biotechnology

Legal Expertise

Patent and utility model protection

Opposition and appeal proceedings

Trademarks and labels

Dr. Markus Horn

Dipl.-Chem.

Publications

Carbocationic n-endo-trig Cyclizations L. Shi, M. Horn, S. Kobayashi, H. Mayr, Chem. Eur. J. 2009, 15, 8533-8541.

Organocatalytic Activity of Cinchona Alkaloids: Which Nitrogen is More Nucleophilic? M. Baidya, M. Horn, H. Zipse, H. Mayr, J. Org. Chem. 2009, 74, 7157-1764.

Stabilities of Trityl Protected Substrates: The Wide Mechanistic Spectrum of

Trityl Ester Hydrolyses M. Horn, H. Mayr, Chem. Eur. J. 2010, 16, 7469-7477.

Electrophilicity versus Electrofugality of Tritylium Ions in Aqueous Acetonitrile M. Horn, H. Mayr, Chem. Eur. J. 2010, 16, 7478-7487.

Electrophilicities of Acceptor-Substituted Tritylium Ions M. Horn, H. Mayr, Eur. J. Org. Chem. 2011, 6470-6475.

Electrofugalities of Acceptor-Substituted Tritylium Ions M. Horn, C. Metz, H. Mayr, Eur. J. Org. Chem. 2011, 6476-6485.

N-Heterocyclic Carbene Boranes are Good Hydride Donors M. Horn, H. Mayr, E. Lacôte, E. Merling, J. Deaner, S. Wells, T. McFadden, D. P. Curran, Org. Lett. 2012, 14, 82-85.

Nucleophilic Reactivity of Deoxy-Breslow-Intermediates: How Does Aromaticity Affect the Catalytic Activity of N-Heterocyclic Carbenes? B. Maji, M. Horn, H. Mayr, Angew. Chem. 2012, 124, 6335-6339; Angew. Chem. Int. Ed. 2012, 51, 6231-6235.

A Comprehensive View on Stabilities and Reactivities of Triarylmethyl Cations Horn, H. Mayr, J. Phys. Org. Chem. 2012, 25, 979-988.

Towards a Comprehensive Hydride Donor Ability Scale M. Horn, L. H. Schappele, G. Lang-Wittkowski, H. Mayr, A. R. Ofial, Chem. Eur. J. 2013, 19, 249-263.

Solvent Effects on the Activation Rate Constant in Atom Transfer Radical Polymerizations

M. Horn, K. Matyjaszewski, Macromolecules, 2013, 46, 3350-3357.