



Der Vorsitzende des Promotionsausschusses

EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Frau M.Sc. Luisa Giarrana
Allgemeine und Anorganische Chemie
(Prof. Dr. David Scheschkewitz)

am

Freitag, 10. April 2026, 12:00 Uhr s.t.


per Videokonferenz: Link für MS Teams: <https://bit.ly/41aV68g>
Raum für die Prüfung: kleiner Hörsaal II (Raum 0.03), Gebäude C4.3

Thema der Dissertation:

Siliconoids with Pending Silylenes as Platform for Mono- and Bimetallic Homogeneous Catalysts

Transition metal complexes employing ligands derived from low-valent main group elements constitute a versatile new platform for homogenous catalysis. In this context, siliconoids (silicon clusters featuring partially unsubstituted silicon vertices) have attracted interest as potential non-innocent ligands for transition metals. This work explores the functionalization of siliconoids with σ -donor/ π -acceptor building blocks affording hybrid siliconoid/tetrylene compounds. The hybrid species were subsequently investigated towards their ligand properties involving transition metal coordination, resulting in monometallic as well as multimetallic silicon clusters. Studies on the reactivity of the obtained species demonstrated their applicability as competent catalysts in hydrosilylations.

Saarbrücken, 26. März 2026


Prof. Dr.-Ing. Georg Frey