

Prof. Ing. Aleš Růžička, Ph.D.

Date and place of birth: March 1st, 1974, Kutná Hora, Czech Republic

Nationality: Czech

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ACADEMIC CAREER AND POSITIONS HELD TO DATE

Educational background

1997–2001 **Ph.D. degree** in Inorganic Chemistry, Faculty of Chemical Technology, University of Pardubice, Czech Republic (Ph.D. thesis under the supervision of Prof. J. Holeček).

1992–1997 **M.Sc. degree** in Inorganic Chemistry, Faculty of Chemical Technology, University of Pardubice, Czech Republic (diploma thesis under the supervision of Prof. J. Holeček)

Occupation and career experience

2006– head of group of Coordination and Organometallic Chemistry

2011 professor in Inorganic Chemistry, University of Pardubice

2005 associate professor in Inorganic Chemistry, University of Pardubice

2003– University of Pardubice, Faculty of Chemical Technology, Department of General and Inorganic Chemistry

2002–2003 postdoctoral stay – Royal Society-NATO Fellow at University of Sussex, Brighton UK with prof. Michael F. Lappert — low valent main-group complexes, clusters

MAIN AREAS OF RESEARCH

inorganic, organic, coordination and organometallic chemistry, NMR spectroscopy, crystallography, catalysis, structure determination

ACADEMIC AWARDS

- 2008 Bader Award for Organic Chemistry
- 2002 Premier Award for the best set of papers on spectroscopy by the Czech Spectroscopic Society
- Several Rector and Dean Awards for the Best paper or Scientific achievement

PUBLICATIONS

Prof. Růžička is author or co-author of more than 390 papers in refereed journals, three chapters in books and five patents. He has presented 50 lectures at international and domestic conferences. H-index 38 – WoS May 2023, sum times cited 6000, by other authors 4590.

Five selected papers:

- *Access to cationic polyhedral carboranes via dynamic cage surgery with N-heterocyclic carbenes*; Vrána, J.; Holub, J.; Samsonov, M. A.; Růžičková, Z.; Cvačka, J.; McKee, M. L.; Fanfrlík, J.; Hnyk, D.; **Růžička, A.** NATURE COMMUNICATIONS **2021**, 12: 4971. DOI: 10.1038/s41467-021-25277-0; IF 14.919.
- *Redox Noninnocent Monoatomic Silicon(0) Complex ("Silylone"): Its One-Electron-Reduction Induces an Intramolecular One-Electron-Oxidation of Silicon(0) to Silicon(I)*; Yao, SL; Kostenko, A; Xiong, Y; **Ruzicka, A**; Driess, M: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY **2020**, Volume: 142 Issue: 29 Pages: 12608-12612. DOI: 10.1021/jacs.0c06238 2020; IF 14.612.
- *Aurophilic Interactions in [(L)AuCl][(L')AuCl] Dimers: Calibration by Experiment and Theory*; Andris, E; Andrikopoulos, PC; Schulz, J; Turek, J; **Ruzicka, A**; Roithova, J; Rulisek, L; JOURNAL OF THE AMERICAN CHEMICAL SOCIETY **2018**, 140: 2316-2325. DOI: 10.1021/jacs.7b12509; IF 14.612.
- *Hybrid amidinates and guanidinates of main group metals*; Chlupaty, T; **Ruzicka, A**; COORDINATION CHEMISTRY REVIEWS **2016**, 314: 103-113. DOI: 10.1016/j.ccr.2015.07.012; IF 15.367.
- *The Dominant Role of Chalcogen Bonding in the Crystal Packing of 2D/3D Aromatics*; Fanfrlik, J; Prada, A; Padelkova, Z; Pecina, A; Machacek, J; Lepsik, M; Holub, J; **Ruzicka, A**; Hnyk, D; Hobza, P; ANGEWANDTE CHEMIE-INTERNATIONAL EDITION **2014**, 53: 10139-10142. DOI: 10.1002/anie.201405901; IF 12.959.