Curriculum Vitae in formato Europeo

European Curriculum Vitae Format

Informazioni personali
Personal information

Nome e Cognome *Name and surname*	**Ing. Jan Holub, PhD**
Attuale Amministrazione di appartenenza *Current Administration*	*University of Chemistry and Technology (UCT, Prague)* *Technická 5* *166 28 Praha 6 – Dejvice* *Czech Republic*
Attuale responsabilità *Current occupation or position held*	***JUNIOR GROUP LEADER***
Contatti *Contacts*	*e-mail:* ***holubj@vscht.cz***

Esperienza lavorativa
Work experience

02/02/2022 – CURRENT	***JUNIOR GROUP LEADER – GROUP OF COORDINATION CHEMISTRY*** *Department of inorganic chemistry, university of chemistry and technology, prague, Czech Republic* • *Supramolecular chemistry of molecular grids and metalo-driven self-assembly* • *Electrocatalytic activation of small molecules* • *Water and Ammonia oxidation for green hydrogen production using transition metal molecular (electro)catalysts*
02/08/2021 – 31/01/2022	***LABORATORY AND PROJECT MANAGER*** *Prof. G. BERNARDES - Yusuf Hamied Department of chemistry, University of Cambridge* • *Students' induction into the laboratory* • *Management of accompanying funding administration – reports, filling of statements, negotiation and purchase of equipment*

01/07/2017 – 26/02/2021

POSTDOCTORAL RESEARCHER

Prof. A. LLOBET - Institute of Chemical research of Catalonia (ICIQ), Tarragona, Spain

- *Electrochemical transformations– H_2O, NH_3, CO_2, N_2 oxidations and reductions.*

Istruzione e formazione
Education and training

26/9/2012-28/9/2016

(29/9/2016-30/6/2017 – Postdoc)

PH.D. STUDY AND RESEARCH

Prof. J.-M. LEHN - Institut de Sciencia et d'Ingénierie Supramoleculaires, University of Strasbourg, Strasbourg, France

PhD thesis: *Generation of Coordination Architectures from Dynamic Covalent Ligand Libraries*

- *Stimuli-responsive dynamic combinatorial networks – Developed proof of concept dual metallo-trainable dynamic network based on dynamic covalent chemistry (DCC) of imines*
- *Self-assembling metalosupramolecular grids and helicates – First to prepare and characterize folded hairpin-like and aldehyde functionalized grids and their decoration through DCC*

2007 – 2012

MASTER'S AND BACHELOR'S STUDIES

University of Chemistry and Technology in Prague (UCT, Prague), Prague, Czech Republic

- **Master's degree research topic (Prof. P. Lhoták):**
  Upper rim substitution of calix[4]arenes: Use of directed C-H activation for meta substitution of the upper rim of the calixarenes
- **Bachelor's degree research topic (Prof. P. Lhoták):**
  Design and synthesis of dendrimers based on thiacalix[4]arene derivatives

Madrelingua
Mother tongue

Czech

Altre competenze Linguistiche
Other languages

English:	*Proficient user. Fluent in spoken and written English (C1 IELTS certificate)*
Russian:	*Proficient user. Good spoken and written Russian*
Spanish:	*Independent user. Basic conversation and written text.*
French:	*Passive user. Understanding of the spoken language and written text*

Allegati Attachments

LIST OF FUNDINGS

2012-2016	*PhD funding grant from the University of Strasbourg (France)*
2018-2021	*PROBIST – Joint Postdoctoral fellowship between BIST and Marie Skłodowska-Curie grant*
2022-2024	*Starting grant - Dagmar Procházková Fund – Starting grant for young scientists establishing their independent group at the UCT, Prague*

SELECTED PUBLICATIONS

1) *Holub, J.; Vantomme, G.; Lehn, J.-M. Training a Constitutional Dynamic Network for Effector Recognition: Storage, Recall, and Erasing of Information.* **J. Am. Chem. Soc.,** *2016, 138 (36). DOI:10.1021/jacs.6b05785*

2) *Holub, J.; Santoro, A.; Stadler, A.-M.; Lehn, J.-M. Peripherally Multi-Functionalised Metallosupramolecular Grids: Assembly, Decoration, Building Blocks for Dynamic Covalent Architectures,* **Inorg. Chem. Front**. *2021, 8 (23), 5054-5064, DOI: https://doi.org/10.1039/D1QI01084K*

3) *Holub, J.; Vereshchuk, N.; Sánchez-Baygual, F.-J.; Gil-Sepulcre, M.; Benet-Buchholz, J.; and Llobet A. Synthesis, Structure, and Ammonia Oxidation Catalytic Activity of Ru-NH3 Complexes Containing Multidentate Polypyridyl Ligands,* **Inorg. Chem**. *2021, 60 (18), 13929–13940, DOI: 10.1021/acs.inorgchem.1c01528*

4) *Beiler, A.; Denisiuk, A.; Holub, J.; Sanchez-Baygual, F.-J.; Gil-Sepulcre, M.; Ertem, M.; Moonshiram, D.; Piccioni, A.; Llobet, A. Heterogeneous Electrochemical Ammonia Oxidation with a Ru-bda Oligomer Anchored on Graphitic Electrodes via CH-π Interactions* **ACS Energy Lett.** *2023, 8, 172–178; DOI: 10.1021/acsenergylett.2c02483*

5) *Santoro, A.; Holub, J.; Fik-Jaskółka M. A., Vantomme G.; Lehn J.-M. Dynamic Helicates Self-Assembly from Homo- and Heterotopic Dynamic Covalent Ligand Strands* **Chem. Eur. J**. *2020, 26, 15664-15671. DOI: 10.1002/chem.202003496*

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