Allegato alla domanda di partecipazione
Curriculum formativo, didattico, scientifico e professionale del candidato

Dichiarazione sostitutiva di certificazioni
(Art. 46, D.P.R. 28 dicembre 2000 n. 445)
Dichiarazione sostitutiva dell'atto di notorietà
(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)
(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	Selezione pubblica per il conferimento di Assegni di Ricerca, ai sensi dell'art. 22 della L. 30/12/2010, n. 240. Area: 03-Scienze Chimiche S.C.: 03/B1 SSD: CHEM/03 Responsabile Scientifico: Claudia Caltagirone Titolo del Progetto: Chemosensori a base prismarenica per il monitoraggio di contaminanti organici nelle acque
Informazioni aggiornate al	02.09.2024
Nome e Cognome	Marta Zaleskaya-Hernik
Data di nascita	09-03-1994

Esperienza professionale

Periodo	**Ente**	**Principali attività e responsabilità**
2016 – 2017	Warsaw University of Life Sciences	Determination of the role of Yarrowia lipolytica yeast enzymatic activity in the optimization of gamma-decalactone biosynthesis.
2017 – 2023	Faculty of Chemistry, University of Warsaw	Design and synthesis of organic compounds - ditopic electrochemical and fluorescent sensors, molecular transporters, conducting physicochemical studies using NMR spectroscopy methods (one-dimensional spectra, DOSY, ROESY), UV-vis, fluorescence spectroscopy, ion chromatography, DLS research, research electrochemical.
09-11. 2022	Tulane University, New Orleans, LA, USA	Transmembrane transport of liposomes (preparation of LUVs, lucigenin assay, ion selective electrode assay, HPTS assay and amino acid transport).

Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	**Titolo / Principali tematiche**	**Ente**
10.2012 – 02.2016	**Bachelor's Degree**	**Warsaw University of Life Sciences**
02.2016 - 07.2017	**Master's Degree**	**Warsaw University of Life Sciences**
11.2017 – 10.2023	**Ph.D.**	**University of Warsaw, Department of Chemistry**

10.2019 - 2021	**Postgraduate Studies in Evidence Law, Forensics and Related Sciences**	**University of Warsaw, Center for Forensic Sciences**
09-11. 2022	**Scientific internship**	**Tulane University, New Orleans, LA, USA**

Pubblicazioni

M. Zaleskaya, D. Jagleniec, M. Karbarz, Ł. Dobrzycki, J. Romański, Squaramide based ion pair receptors possessing ferrocene as a signalling unit. Inorganic Chemistry Frontiers, 2020, 7(4), 972-983.
M. Zaleskaya, M. Karbarz, M. Wilczek, Ł. Dobrzycki, J. Romański. Cooperative Transport and Selective Extraction of Sulfates by a Squaramide-Based Ion Pair Receptor: A Case of Adaptable Selectivity. Inorganic Chemistry, 2020, 59, 18, 13749-13759.
M. Zaleskaya, Ł. Dobrzycki, J. Romański. Highly efficient, tripodal ion-pair receptors for switching selectivity and liquid-liquid extractions. International Journal of Molecular Sciences, 2020, 21(24), 9465, 1-19.
M. Zaleskaya, D. Jagleniec, J. Romański. Macrocyclic squaramides as ion pair receptors and fluorescent sensors selective towards sulfates. Dalton Transactions, 2021, 50(11), 3904-3915.
M. Zaleskaya-Hernik, Ł. Dobrzycki, M. Karbarz, J. Romański. Fluorescence recognition of anions using a heteroditopic receptor: Homogenous and two-phase sensing. International Journal of Molecular Sciences, 2021, 22(24). 13396, 1-13.
M. Zaleskaya-Hernik, E. Megiel, J. Romański. Utilizing a polymer containing squaramide-based ion pair receptors for salt extraction. Journal of Molecular Liquids, 2022, 361, 119600
M. Zaleskaya-Hernik, M. Karbarz, J. Romański. The use of microelectrodes to study ion recognition by a squaramide-based ion pair receptor consisting of a ferrocene reporter. Journal of Electroanalytical Chemistry, 2023, 928, 117058
M. Zaleskaya-Hernik, Ł. Dobrzycki, J. Romański. Interaction of Ions in Organic and Aqueous Media With an Ion Pair Sensor Equipped With a BODIPY Reporter: An ON1-OFF-ON2-ON3 Fluorescent Assay. International Journal of Molecular Sciences, 2023, 24, 8536.
M. Zaleskaya-Hernik, Marcin Wilczek, Łukasz Dobrzycki, Jan Romański Zwitterion Detection with a Fluorescent Squaramide Cryptand: A Study in Size-Dependent Salt Recognition and Sensing Organic Chemistry Frontiers, 2024, 11, 4820 - 4828

Ulteriori informazioni pertinenti

Teaching experience 2023-2024 Co-teacher of the course Biochemistry. Lecture for first-year master's students. Faculty of Chemistry, University of Warsaw 2023-2024 Co-teacher of the Organic Chemistry laboratory for first-cycle students. Faculty of Chemistry, University of Warsaw 2023-2024 Coordinator of the optional subject for the first year of master's studies. Synthesis of molecular receptors and their interaction with ions. Faculty of Chemistry, University of Warsaw
Grants performed 11.2019-05.2023 PhD student scholarship holder. SONATA BIS research project No. 2018/30/E/ST5/00841, NCN (National Science Centre in Poland). “Diagnosis,

	salt transport and extraction using modular molecular receptors". Grant manager: prof. Jan Romański.
10.2023-04.2024	Assistant. Research project OPUS 16. 2018/31/B/ST4/02354, NCN (National Science Centre in Poland). "Physicochemical basis of action antioxidants: from solvent effects and mechanistic studies to interfacial phenomena in systems biomimetic." Grant manager: prof. Grzegorz Litvinenko.

Cagliari, 02.09.2024 Marta Zaleskaya-Hernik