UNIVERSITÀ DEGLI STUDI DI MILANO

TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO **ID CODE 6538**

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Chemistry**
Scientist- in – charge: **__Prof. Serena Arnaboldi _____**

Bartłomiej Bończak

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Bończak
Name	Bartłomiej

PRESENT OCCUPATION

Appointment	Structure
Post-doc	University of Milan Chemistry Department

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Bachelor of Science in Engineering	Chemical Technology	Warsaw University of Technology	2012
Master of Science in Engineering	Chemical Technology	Warsaw University of Technology	2013
PhD	Chemistry	Institute of Physical Chemistry PAS	2021
Post-doc	Chemistry	Institute of Physical Chemistry PAS	2021-2023
Post-doc	Chemistry	University of Milan Chemistry Department	2023-2024

FOREIGN LANGUAGES

Languages	level of knowledge
English	Fluent in speech and writing

Polish	Native
German	Basics
Italian	A1

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2013	Summa Cum Laude – Warsaw University of Technology

TRAINING OR RESEARCH ACTIVITY

Research assistant 2011-2013;

Chair of Organic Chemistry, Faculty of Chemical Technology, Warsaw University of Technology, under the supervision of Dr. Eng. Magdalena Popławska,

Third-year Internship 07/2011 – 08/2011

Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, under the supervision of Prof. Zbigniew Kałuża

Post-doc position 01/2021 – 02/2023

Institute of Physical Chemistry Polish Academy of Sciences, Living Materials Group, supervisor Prof. Jan Paczesny

Post-doc position 03/20213 – 02/2024

Arnaboldi's Group University of Milan Chemistry Department

PROJECT ACTIVITY

Year	Project
2023-2024	Post-doc in ERC Stg CHEIR Serena Arnaboldi
2021-2022	Post-doc in Sonata Bis 2017/26/E/ST4/0004, Jan Paczesny
2020	Development of gold nanoparticles coating on orthodontic materials (2020)
2016	Subcontractor in Preludium grant 2011/01/N/ST5/02916 (2016)
2014-15	Ph.D. student in TEAM grant 6/2010 (2014-2015)

PATENTS

Patent
Sposób dezaktywacji bakteriofagów z wykorzystaniem indygotyny (E132, sól sodowa kwasu 5,5′-indigodisulfonowego) do ochrony bakterii (“Deactivation of bacteriophages using indigo carmine (E132) for protection of bacteria”) S. Raza, J. Paczesny, B. Bończak, M. Łoś – patent pending

CONGRESSES AND SEMINARS

Date	Title	Place
12.02.25	CHESS24	Brescia, Italy
19.09.2022	European Materials Research Society Conference	Warsaw, Poland
11.09.2019	International Conference on Functional Nanomateirals and Nanodevices	Prague, Czech Republic
02.09.2012	International Symposium on Medicinal Chemistry	Berlin, Germany

PUBLICATIONS

Gold Nanoparticles Functionalized with Fully Conjugated Fullerene C60 Derivatives as a Material with Exceptional Capability of Absorbing Electrons Journal of Physical Chemistry C, 2019 | Journal article DOI: 10.1021/acs.jpcc.8b10842 EID: 2-s2.0-85062449783 Part of ISSN: 19327455 19327447 CONTRIBUTORS: Bończak, B.; Lisowski, W.; Kamińska, A.; Hołdyński, M.; Fiałkowski, M.
Gold Nanoparticles Functionalized with Fullerene Derivative as an Effective Interface Layer for Improving the Efficiency and Stability of Planar Perovskite Solar Cells Advanced Materials Interfaces 2020 | Journal article DOI: 10.1002/admi.202001144 EID: 2-s2.0-85090935142 Part of ISSN: 21967350 CONTRIBUTORS: Chavan, R.D.; Prochowicz, D.; Bończak, B.; Tavakoli, M.M.; Yadav, P.; Fiałkowski, M.; Hong, C.K.
Azahomofullerenes as New n-Type Acceptor Materials for Efficient and Stable Inverted Planar Perovskite Solar Cells ACS Applied Materials and Interfaces 2021 | Journal article DOI: 10.1021/acsami.1c01685 EID: 2-s2.0-85106012809 Part of ISSN: 19448252 19448244 CONTRIBUTORS: Chavan, R.D.; Prochowicz, D.; Bończak, B.; Fiałkowski, M.; Tavakoli, M.M.; Yadav, P.; Patel, M.J.; Gupta, S.K.; Gajjar, P.N.; Hong, C.K.
Synthesis and cytotoxic activity of 1,2,3-triazoles derived from 2,3-seco-dihydrobetulin via a click chemistry approach Journal of Molecular Structure 2022 | Journal article DOI: 10.1016/j.molstruc.2021.131751 EID: 2-s2.0-85118250706 Part of ISSN: 00222860 CONTRIBUTORS: Kuczynska, K.; Bończak, B.; Rárová, L.; Kvasnicová, M.; Strnad, M.; Pakulski, Z.; Cmoch, P.; Fiałkowski, M.
Donor–Acceptor Stenhouse Adducts for Stimuli-Responsive Self-Assembly of Gold Nanoparticles into Semiconducting Thin Films The Journal of Physical Chemistry C 2022-04-28 | Journal article DOI: 10.1021/acs.jpcc.2c00084 CONTRIBUTORS: Bartłomiej Bończak; Marcin Fiałkowski
Gold–oxoborate nanocomposite-coated orthodontic brackets gain antibacterial properties while remaining safe for eukaryotic cells Journal of Biomedical Materials Research Part B: Applied Biomaterials

2022-12-03 | Journal article DOI: 10.1002/jbm.b.35208

CONTRIBUTORS: Jan Łyczek; Bartłomiej Bończak; Izabela Krzymińska; Konrad Giżyński; Jan Paczesny

Adaptive 2D and Pseudo-2D Systems: Molecular, Polymeric, and Colloidal Building Blocks for Tailored Complexity

Nanomaterials DOI: 10.3390/nano13050855

CONTRIBUTORS: Rafał Zbonikowski; Pumza Mente; Bartłomiej Bończak; Jan Paczesny

Heteroaggregation of virions and microplastics reduces the number of active bacteriophages in aqueous environments

Journal of Environmental Quality |Journal article DOI: 10.1002/jeq2.20459

CONTRIBUTORS: Enkhlin Ochirbat; Rafał Zbonikowski; Anna Sulicka; Bartłomiej Bończak; Magdalena Bonarowska; Marcin Łoś; Elżbieta Malinowska; Robert Hołyst; Jan Paczesny

Molecular Engineering of Azahomofullerene-based Electron Transporting Materials for Efficient and Stable Perovskite Solar Cells

Chemistry of Materials, Journal article DOI: 10.1021/acs.chemmater.3c01995

CONTRIBUTORS: Rohit D. Chavan; Bartłomiej Bończak; Joanna Kruszyńska; Apurba Mahapatra; Muhammad Ans; Jan Nawrocki; Kostiantyn Nikiforow; Pankaj Yadav; Jan Paczesny; Faranak Sadegh et al.

Congo red protects bacteriophages against UV irradiation and allows for the simultaneous use of phages and UV for membrane sterilization

Environmental Science: Water Research & Technology | Journal article DOI: 10.1039/d2ew00913g

CONTRIBUTORS: Mateusz Wdowiak; Patryk A. Mierzejewski; Rafał Zbonikowski; Bartłomiej Bończak; Jan Paczesny

OTHER INFORMATION

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: _Milano_, 25/03/2024