



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE: 5622

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	Institute of Physical Chemistry Polish Academy of Sciences

### 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-currently

### FOREIGN LANGUAGES

Languages	level of knowledge
English	B2
Polish	Native
German	Basics



## 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 supervision of Dr. Eng. Magdalena Poptawska,
Third-year Internship 07/2011 - 08/2011 Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, under 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

## PROJECT ACTIVITY

Year	Project
2021-2022	Post-doc in Sonata Bis 2017/26/E/ST4/0004
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
19.09.2022	European Materials Research Society Conference	Warsaw, Poland
11.09.2019	International Conference on Functional Nanomaterials 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 Krzysińska; Konrad Giżyński; 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: \_Warsaw\_, 08/01/2023