

Yaroslav Filinchuk**Curriculum vitae****July 2018**

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Belgian; born in October 1978 in Lviv, USSR

Education

- 1992-1995 student of Lviv Physics and Math. Lyceum, ranked 1st high school in Ukraine
 1995-2000 student of the Faculty of Chemistry, Ivan Franko Lviv National University, Ukraine. Graduated with distinction in June 2000
 2000-2002 Ph.D. student (extra-mural position) at the Dept. Inorganic Chemistry, Ivan Franko Lviv National University, Ukraine. Ph.D. in October 2002 "Synthesis and stereochemistry of copper(I) π -complexes with allyl derivatives of azomethynes and thiosemicarbazide"

Employment

- 2000-2002 assistant (70%) at the Laboratory of Crystallography, University of Geneva, Switzerland
 2002-2005 assistant (100%) at the Laboratory of Crystallography, University of Geneva, Switzerland
 2006-2010 scientist at the Swiss-Norwegian Beam Lines, European Synchrotron Radiation Facility, Grenoble, France. Permanent position (CDI) since 2008
 2011-now professor in structural chemistry, Institute of Condensed Matter and Nanosciences, Université Catholique de Louvain, Belgium

Awards

- 1995 silver medal at the 27th International Chem. Olympiad (Beijing), ranked 36th in the world
 1995-1998 4 individual awards from the International Soros Science Education Program
 2010 invited associate professor at the Department of Inorganic Chemistry and iNANO, University of Aarhus, Denmark
 2010 Laureate of the ESRF Young Scientist Award
 "For the outstanding work on the chemistry of solid state hydrides"
 2014 JSPS Invitation Fellowship for Research in Japan (Short-Term), Kyushu University

Research group

currently consists of 7 PhD students (of them 3 are co-supervised), 1 Master student.

Scientific publications

227 papers in peer-reviewed journals, including 1 in *Science*, 9 in *Angew. Chem.* (two as "Very Important Papers"), 8 in *JACS*, 2 in *PRL*, 1 in *Adv. Mater.*, 1 in *Chem. Sci.* and 1 in *Chem. Soc. Rev.* I am the first or the corresponding author for about half of them. The articles received 1073 citations in 2017, above 9100 total citations, the *h*-index is 50 (Scopus), 54 (Google). I published 8 reviews, as a corresponding author for 4 of them. The full publication list is at http://filinchuk.com/Publ_Fil.html

Visibility in scientific and mass media

My research activity was covered by EuroNews (3 min 47 sec video, May 2009), in six press releases (2007-2011) of the ESRF, University of Geneva, Université Catholique de Louvain and Wiley, in regional newspapers (for example: *Le Dauphiné Libéré*, France, 6 Dec. 2007; *Le Soir*, Belgium, 9 Nov. 2012) and on TV (France 3, 2007; EuroNews, 2009). ESRF published March 2010 issue of the "ESRFnews" largely

highlighting my activity (cover page + double-page spread + an interview). A two-page highlight is published by FNRS news, No. 89 (June 2012). I gave more than 40 invited/plenary/keynote presentations at international conferences and schools, >20 contributed oral talks, >30 invited seminars, was a member of a panel discussion at a major conference on hydrogen economy (Richmond, USA, 2007), a keynote speaker at the IUCr congress (Madrid, 2011) with ~3000 participants, invited speaker at GRC 2015, a keynote speaker at the ECM (Oviedo, 2018) etc.

Teaching

I taught chemistry to high school students ("Small Academy of Sciences", University of Lviv, 1995-2000); lectured at Erice schools on high-pressure crystallography and on powder diffraction (two lectures and two workshops, 2009 and 2011); organized two practical workshops for the users of SNBL (ESRF, 2007); gave a lecture course on crystallography at the University of Aarhus (3 ECTS points, 2010) and at the University of Umea (course on powder diffraction, 2009). Since 2011 I am teaching at UCL crystallography in English and French to the 2nd and 5th-year chemistry students, and since 2014 general chemistry (in French) to the 1st year students in physics and mathematics and in management engineering.

Funding

2011, UCL start-up grant

2011, FSR-UCL: a PhD student + operational costs

2011, FNRS-Grant for Researchers (CC): equipment (40 k€) + a postdoc for 3 years

2012, Marie-Curie co-funded by FSR-UCL: postdoc for 2 years + operational costs

2012, General Motors, USA: operational costs (25 k\$)

2012, IMCN: diffractometer upgrade with an X-ray focusing mirror (55 k€)

2013, FNRS-Research project (4 years, 303.8 k€) and FNRS-Equipment (2 years, 161.7 k€)

2013, FNRS-FRIA fellowship for my PhD student

2014, two WBI postdoctoral fellowships for 1 + 1 year

2015, FNRS-Equipment (2 years, 196.8 k€)

2016, CSC fellowship for a PhD student, in co-supervision

2017, FNRS-CdR (2 years, 52.3 k€)

2017, CSC fellowship for a PhD student (4 years)

2017, assistantship for a PhD student (6 years)

2017, FRIA fellowship for a PhD student (4 years), in co-supervision with Sophie Hermans

2018, CSC fellowships for two PhD students (4 years, one in co-supervision with Michel Devillers)

2018, ARC grant (5 years, 897.5 k€), spokesperson, with Alexandru Vlad, Geoffroy Hautier and Luc Piraux

Administrative experience and professional memberships

1995-2000 member of the Academ. Councils of the Univ. of Lviv and of the Chem. Dept.

1998-2000 member of a jury and a co-organizer of the Ukrainian Chemistry Olympiads

2011-2015 Management Committee Member (for Belgium) in COST Action MP1103
"Nanostructured materials for solid-state hydrogen storage"

2012-now secretary and since 2015 co-chair of the Special Interest Group of the European Crystallographic Association: SIG-11, "Crystallography under Extreme Conditions"

2013-now Representative of UCL to the national accompanying committee "European sources for synchrotron radiation and neutrons" (NAC SRN), Belgian Science Policy Office BELSPO

2014-2017 member of an advisory board in SCOPES project led by the University of Geneva

2015-2019: member of the Scientific Selection Panel for the large scale facilities BER II and BESSY II of HZB in Materials Sciences and Hard Condensed Matter

2016-now: Task 32 expert (Hydrogen Implementing Agreement) of the International Energy Agency

2017-2020: delegate to the ESRF council from BeNeSync consortium (Belgium, the Netherlands)

2017-now: president of the FNRS contact group on synchrotron radiation

- reviewed for >30 journals (from ACS, RSC, APS, IUCr, Science, Nature group, Wiley, Elsevier...)
- reviewed for FNRS (Belgium), the DOE (USA), ANR (France), the Netherlands Foundation for Fundamental Research on Matter (FOM), the South African National Research Foundation, the

Slovenian Research Agency (ARRS), the Croatian Science Foundation (HRZZ), FP7 Marie Curie co-fund, LE STUDIUM (France), Languedoc-Roussillon region (France), Indo-French Centre for the Promotion of Adv. Res.

- jury member for 11 PhDs (Belgium, Sweden, France, Switzerland, Australia) and 3 habilitations (HDR, France)
- symposia chairman at 6 major international conferences (IUCr congress, ECM, EDPIC) and member of program or scientific committees at 5 international conferences (ECM, CAC, IDHEA, SYNEW)
- organizer of the Symposium C "Hydrogen storage in solids" of the 2015 E-MRS Fall meeting
- delegate of Belgium to the ECA councils in Warwick 2013, Rovinj 2015, Oviedo 2018
- delegate of Belgium to the IUCr General Assembly in Montreal, 2014
- scientific review committee member for GdR ACTHYF (2013) and GdR HySPAC (2015, 2018) of CNRS
- since 2011 member of the Swiss and since 2008 of the European Crystallographic Associations, and since 2012 of the Belgian National Committee for Crystallography
- since 2012 member of the University Foundation (Fondation Universitaire, Brussels)

Languages Ukrainian (native), Russian (excellent), English (fluent), French (working)

Family My wife, Maria Roudakova Filinchuk, is a Swiss jeweller (joaillier-bijoutier).
Two daughters: Anna, 2011 and Elisa, 2017.