CURICULUM VITAE

Alen Bjelopetrović, mag. chem.

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Personal information:

Date of birth: 2nd May 1991Place of birth: Pula, Croatia

Citizenship: Croatian

Languages

Nativ language Croatian
Active English
Passive Italian

Interests

- polyoxometalates and coordinative compounds chemistry
- molecular magnets, thin films, chemical sensors,
- organometallic compounds, functionalization of organic compounds, catalysis
- mechanochemical synthesis, chemical kinetics, *in situ* and *ex situ* monitoring of mechanochemical reactions using Raman spectroscopy,
- products characterization by solid-state methods such as UV-Vis, Fluorescence,
 Raman and IR spectroscopy as well as PXRD and single-crystal X-ray diffraction
- education, popularization of science
- traveling, reading, writing popularization literature, blogging

Education

2016-	Doctoral study in chemistry, Department of Chemistry, Faculty of Science,
	University in Zagreb
	Major field: Inorganic and structural chemistry
2016	Master in chemistry, master thesis: "Mononuclear Compounds of
	Molybdenum(VI): trans- effect of oxygen atoms"
2014-2016	Master studies in chemistry, Department of Chemistry, Faculty of Science,
	University in Zagreb
	Major field: Inorganic and Organic chemistry (average grade 4,210)
2014	Bachelor in Chemistry, bachelor thesis: "Polyoxometalates and
	Heteropolyoxometalates"
2010-2014	Undergraduate Study in Chemistry , Department of Chemistry, Faculty of

	Science, University in Zagreb (average grade: 3,800)
2006-2010	High school Pula, Pula, Croatia
1998-2006	Elementary school, Pula, Croatia

Awards and scholarships

Dec 2019	Annual reward by Institut Ruđer Bošković for the best paper published in 2018 by employee, for publication in
	Chem. Eur. J.
Oct 2014 – Jul 2016	Istrian county scholarship
21st Oct 2014	Chemistry Department's Award for student's scientific
	work
13 th Jun 2013	Special Chancellor's Award for project "6th Department of
	Chemistry Open Day"
Oct 2013 -Aug 2014	City of Pula scholarship

Publications

A. Bjelopetrović, M. Robić, I. Halasz, D. Babić, M. Juribašić Kulcsárm M. Ćurić, *Organometallics*, **38** (2019), 22; 4479-4482.

A. Bjelopetrović, S. Lukin, I. Halasz, K. Užarević, I. Đilović, D. Barišić, A. Budimir, M. Juribašić Kulcsár, M. Ćurić

"Mechanism of Mechanochemical C–H Bond Activation in an Azobenene Substrate by Pd(II) Catalysts", Chem. Eu. J. **24** (2018), 42; 10672-10682.

M. Cindrić, A. Bjelopetrović, G. Pavlović, V. Damjanović, J. Lovrić, D. Matković-Čalogović, V. Vrdoljak

"Copper(II) complexes with benzhydrazone-related ligands: synthesis, structural studies and cytotoxicity assay", New Journal of Chemistry, **41** (2017), 2425-2435.

Expert meetings attendance (oral presentations)

Feb 2018	12. Meeting of young chemical engineers, Zagreb, Croatia
	"Activation of carbon-hydrogen bond by various palladium precursors in solid
	state"
Jun 2016	26th Croatian-Slovenian Crystallographic Meeting, Poreč, Croatia
	"X-Ray Analysis of Intermediates and Products Involved in Solid-State C–H
	Bond Activation by Pd(II) Chloride Precursors"
	26th Croatian-Slovenian Crystallographic Meeting, Poreč, Croatia
	"X-Ray Identification and Characterization of Azobenzene Palladacycles
	Obtained by Solid-State C–H Bond Activation"
Jun 2016	25th Croatian Meeting of Chemical Engineers, Poreč, Croatia
	"Beauty of Crystal Faces: The Story of Growing Single Crystals"

1. Symposium of chemistry students, Zagreb, Croatia

"Mononuclear Complexes of Molybdenum(VI): trans—influence of oxygen atoms"

Expert meetings attendance (poster presentations)

May 2019	Solid-State Science & Research Meeting 27-29 June 2019, Zagreb
	A. Bjelopetrović, S. Lukin, D. Barišić, M. Juribašić Kulcsár, M. Ćurić
	" Effect of Different Additives on the Rates of Mechanochemical C–H Bond
	Activation"
<i>May 2019</i>	Adriatic NMR Conference 2019, Ston
	D. Barišić, A. Bjelopetrović, M. Juribašić Kulcsár, M. Ćurić
	"Insight into the second cyclopalladation of monopalladated azobenzene by 1H
	NMR spectroscopy"
Apr 2019	26th Croatian Meeting of Chemist & Chemical Engineers
	Z. Duvnjak, A. Bjelopetrović, M. Juribašić Kulcsár, M. Ćurić, A.
	Budimir
	"Effect of Temperature on Dicyclopalladation of
	4-dimethylaminoazobenzenes
	26th Croatian Meeting of Chemist & Chemical Engineers
	A. Bjelopetrović, D. Babić, M Robić, M. Juribašić Kulcsár, M. Ćurić
	"One-Step Mechanosynthesis of Organopalladium Compounds
	Via Anion Replacement,,
Jul 2018	XXVIII International Conference on Organometallic Chemistry,
	Florence, Italy
	A. Bjelopetrović, S. Lukin, I. Halasz, K. Užarević, D. Barišić, M.
	Juribašić Kulcsár, M. Ćurić
	"Mecnhanism of Solid-State C–H Bond Activation by Different Pd(II)
	Catalysts"
Jul 2017	XXII European Conference on Organometallic Chemistry,
	Amsterdam, The Netherlands
	A. Bjelopetrović, S. Lukin, I. Halasz, K. Užarević, m. Juribašić Kulcsár,
	M. Ćurić
	"Effect of Different Pd(II) precursors on Rates of Solid-State C–H bond
	Activation"
Jun 2017	Solid-State Science & Research Meeting, Zagreb, Croatia
	A. Bjelopetrović, D. Barišić, S. Lukin, I. Halasz, K. Užarević, M.
	Juribašić Kulcsár, M. Ćurić
	"Mechanosynthesis of 4,4'-Bis(N,N-Dimethylamino)-Azobenzene and its
	Dicyclopalladated Complex"
Oct 2016	3rd European Crystallographic School, 2016. Bol, Hrvatska

	A. Bjelopetrović, K. Nakić, M. Rubčić, M. Cindrić
	"Polymorphism of Novel Complex Salt
	[CoC2O4(NH3)4][Fe(C2O4)2(OH2)2]·2H2O"
Feb 2016	11. Meeting of young chemical engineers, Zagreb, Croatia
	M. Tuksar, A. Bjelopetrović, M. Juribašić Kulcsáar, M. Lovković, E.
	Meštrović
	"Preparation and characterization of novel pharmaceutically acceptable memantine salts"
	memantine suits
	11. Meeting of young chemical engineers, Zagreb, Croatia
	K. Nakić, A. Bjelopetrović, M. Rubčić, M. Cindrić
	"Sinteza i karakterizacija kompleksnih soli [Co(NH3)6][Fe(C2O4)3] i
	$[C_0C_2O_4(NH_3)_4][F_e(C_2O_4)_2(OH_2)_2]''$
Oct 2015	29. European Crystallographers Meeting, Rovinj, Croatia
	A. Bjelopetrović, M. Cindrić, V. Vrdoljak, G. Pavlović
	"Novel complexes of copper(II) tridentate hydrazone ligands"
Apr 2015	24. Croatian Meeting of Chemist & Chemical Engineers
,	E. Meštrović, A. Bjelopetrović, L. Papa, K. Meglić, T. Lež, Z.
	Matutinović, A. Višnjevac, K. Molčanov, V. Stilinović
	"The Beauty of Crystal Faces"
May 2014	10. Meeting of young chemical engineers, Zagreb, Croatia
	A. Bjelopetrović, V. Vrdoljak, G. Pavlović, M. Cindrić
	"Mononuclear Complexes of Molybdenum(VI): trans—influence of oxygen
	atoms"

Work experience

Oct 2016 –	Assistant on science project at Ruđer Bošković Institute,
	Zagreb, Croatia
Jun 2013– Jul 2016	Volunteer in Laboratory for chemistry of inorganic
	complexes at Chemistry department, Faculty of Science,
	University of Zagreb, under supervision of prof. dr. sc.
	Marina Cindrić and prof. dr. sc. Višnja Vrdoljak.
Sept 2015 – Jul 2016	Physical characterization in Solid State Chemistry
	Laboratory,
	PLIVA d.o.o. R&D, Zagreb, Croatia

Specializations

Nov 2018	Green Chemistry Train-The-Facilitators
	(according to program of the Center for Green Chemistry &
	Green Engineering, Yale University), Belgrade, Serbia
Jul 2017.	The Zürich School of Crystallography (Bring Your Own
	Crystals), University of Zürich, Switzerland
Oct 2016.	3 rd European Crystallographic School, 2016. Bol, Hrvatska