

## Curriculum Vitae

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### Personal Data

Name Wojciech Chaładaj  
Born 28 January, 1981, Łódź, Poland  
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### Education

- June 2019 – Habilitation at the Institute of Organic Chemistry, Polish Academy of Sciences
- December 2008 – Defense of PhD Thesis entitled „Modification of Salen Chromium Complexes and Their Application in Asymmetric Catalysis” (*summa cum laude*, under supervision of prof. J. Jurczak).
- 2004-2008 – PhD Studies at the Institute of Organic Chemistry, Polish Academy of Sciences
- October 2004 – Defense of Master Thesis entitled „Enantioselective Allylation of Alkyl Glyoxylates” (*summa cum laude*, under supervision of prof. J. Jurczak).
- 2000-2004 – Studies at the College of Inter-faculty Individual Studies in Mathematics and Natural Sciences, Warsaw University

### Postdoctoral fellowships and international collaborations

- May 2012 – May 2013 – Post-doc in prof. J. F. Hartwig group at the University of California at Berkeley
- March 2011 – March 2012 – Post-doc in prof. A. Fürstner group at the Max Planck Institut für Kohlenforschung
- January 2009 – February 2011 – Collaboration with prof. K. Matyjaszewski from Carnegie Mellon University

### Employment

- 01.09.2014 – now – Adjunct (Assistant Professor) at the Institute of Organic Chemistry, PAS
- 15.09.2013 – 31.08.2014 - Chemist at the Institute of Organic Chemistry, PAS
- 15.05.2012 – 14.05.2013 – post-doc at the University of California at Berkeley (KOLUMB fellowship)
- 01.03.2011 – 14.03.2012 – post-doc at the Max Planck Institut für Kohlenforschung
- 01.01.2009 – 28.02.2011 – Assistant at the Institute of Organic Chemistry, PAS

### Awards and Honors

- W. Kołos Award (Polish Academy of Sciences) 2018
- W. Świątosławski Award (Polish Chemical Society) 2018
- Participation in EuCheMS Organic Division Young Investigator Workshop (YIW) 2017
- M. Mąkosza Award (to young independent scientists) 2016
- Stipend for young outstanding scientists (founded by the Ministry of Science and Higher Education) 2014
- KOLUMB fellowship (Foundation for Polish Science) for postdoctoral research in Hartwig Group at the University of California at Berkeley
- START fellowship (Foundation for Polish Science) 2010
- Aleksander Zamojski Award (Polish Chemical Society) for the PhD thesis in chemistry, 2009.
- Award for Lecture at „Advances in the synthesis of nonracemic compounds” Szklarska Poręba, Poland, October 2008
- Participation in 46<sup>th</sup> Meeting of Nobel Prize Winners in Lindau (2006)
- Scholarship of the Minister of Education and Sport in 2001-2004

### Publications and Patents

- N. Upadhyay, W. Chaładaj, "Palladium-Catalyzed Carboperfluoroalkylation of Alkynes with Fluoroalkyl Iodides and Arylstannanes", *Adv. Synth. Catal.*, **2020**, 362, 493–499.
- A. Błocka, P. Woźnicki, M. Stankevič, W. Chaładaj, "Pd-catalyzed intramolecular addition of active methylene compounds to alkynes with subsequent cross-coupling with (hetero)aryl halides", *RSC Adv.*, **2019**, 9, 40152-40167.
- S.Domański, B.Gatlik, W. Chaładaj, "Pd-Catalyzed Boroperfluoroalkylation of Alkynes Opens a Route to One-Pot Reductive Carboperfluoroalkylation of Alkynes with Perfluoroalkyl and Aryl Iodides", *Org. Lett.*, **2019**, 21, 13, 5021-5025.
- A. Kołodziejczyk, S. Domański, W. Chaładaj, "Tandem Palladium-Catalyzed 6-exo-dig Oxocyclization-Coupling of  $\delta$ -Acetylenic- $\beta$ -ketoesters with Aryl Bromides and Chlorides: Efficient Route to Substituted Dihydropyrans", *J. Org. Chem.*, **2018**, 83, 12887–12896

- A. Kołodziejczyk, W. Chaładaj "Efficient and Functional Group-Tolerant Synthesis of Substituted Furans via Pd-catalyzed 5-exo-dig Cyclization/Coupling of  $\gamma$ -Acet-ylenic- $\beta$ -ketoesters with (Hetero)Aryl Bromides." *Eur. J. Org. Chem.* **2018**, 2554-2560.  
invited to special issue *20<sup>th</sup> anniversary of Eur JOC*
- M. Kocój, E. Jarosińska, W. Chaładaj "High-pressure Au-catalyzed cycloisomerization of internal 1,6- and 1,7-enynes" *Synlett*, **2018**, 29, 1319–1323  
invited to special issue *EuCheMS Organic Division Young Investigator Workshop (YIW) 2017*
- W. Chaładaj, A. Kołodziejczyk, S. Domański "Gold(I)-Catalyzed Conia-ene Cyclization of Internal  $\epsilon$ -Acetylenic  $\beta$ -Ketoesters under High Pressure." *ChemCatChem*, **2017**, 9, 4334–4339  
highlighted with Cover Picture and Cover Profile article
- S. Domański, O. Staszewska-Krajewska, W. Chaładaj Pd-Catalyzed Carbonylative Carboperfluoroalkylation of Alkynes. „Through-Space  $^{13}\text{C}$ – $^{19}\text{F}$  Coupling as a Probe for Configuration Assignment of Fluoroalkyl-Substituted Olefins.” *J. Org. Chem.* **2017**, 82, 7998–8007
- Magda Białkowska, Wojciech Chaładaj, Irena Deperasinska, Aleksandra Drzewiecka-Antonik, Anna E. Koziol, Artur Makarewicz, Bolesław Kozakiewicz „Single molecules of terylene in di-substituted naphthalenes crystallizing in the herringbone pattern” *RSC Adv.*, **2016**, *in press*, DOI: 10.1039/c6ra27167g
- Sylwester Domański, Wojciech Chaładaj "A Broadly Applicable Method for Pd-Catalyzed Carboperfluoroalkylation of Terminal and Internal Alkynes: A Convenient Route to Tri- and Tetrasubstituted Olefins" *ACS Catal.* **2016**, 6, 3452-3456.  
highlighted in *Synfacts* **2016**, 12, 842.
- Wojciech Chaładaj, Sylwester Domański "Mild and Functional Group Tolerant Method for Tandem Palladium-Catalyzed Carbocyclization–Coupling of  $\epsilon$ -Acetylenic  $\beta$ -Ketoesters with Aryl Bromides and Chlorides" *Wojciech Adv. Synth. Catal.* **2016**, 358, 1820-1825.
- M. Białkowska, W. Chaładaj, A. Makarewicz, B. Kozankiewicz "Terylene in a 2,3-Dichloronaphthalene Crystal. New System for Optical Single-Molecule Investigations" *Acta Phys. Pol. A* **2015**, 128, RK.128.3.1-1-RK.128.3.1-4.
- Shaozhong Ge, Wojciech Chaładaj, John F. Hartwig "Pd-Catalyzed  $\alpha$ -Arylation of  $\alpha,\alpha$ -Difluoroketones with Aryl Bromides and Chlorides. A Route to Difluoromethylarenes" *J. Am. Chem. Soc.* **2014**, 136, 4149-4152.
- Beata Słomińska, Wojciech Chaładaj, Witold Danikiewicz "Assessment of the various ionization methods in the analysis of metal salen complexes by mass spectrometry" *J. Mass Spectrom.*, **2014**, 49, 392-399
- Tomasz Bałakier, Wojciech Chaładaj, Janusz Jurczak, Grażyna Adamus, Marek Kowalczyk „An effective protocol for the synthesis enantiomerically pure 4-substituted oxetane-2-ones” *Tetrahedron Lett.* **2013**, 69, 4990-4993
- Wojciech Chaładaj, Matthieu Corbet, Alois Fürstner “Total Synthesis of Neurymenolide A Based on a Gold-Catalyzed Synthesis of 4-Hydroxy-2-pyrones” *Angew. Chem. Int. Ed.* **2012**, 51, 6929-6933  
designed as a VIP article, highlighted in *Synfacts* **2012**; 8, 1047
- Laura Mueller, Wojciech Jakubowski, Krzysztof Matyjaszewska, Joanna Pietrasik, Piotr Kwiatkowski, Wojciech Chaładaj, Janusz Jurczak “Synthesis of high molecular weight polystyrene using AGET ATRP under high pressure” *Eur. Polym. J.* **2011**, 47, 730-734
- Wojciech Chaładaj, Janusz Jurczak “Formal Synthesis of Galantinic Acid by Oxo-Diels-Alder Methodology” *Eur. J. Org. Chem.* **2011**, 1223-1226
- Joanna Pietrasik, Chin Ming Hui, Wojciech Chaładaj, Hongchen Dong, Jihoon Choi, Janusz Jurczak, Michael R. Bockstaller, Krzysztof Matyjaszewski “Silica-Polymethacrylate Hybrid Particles Synthesized Using High-Pressure Atom Transfer Radical Polymerization” *Macromol. Rap. Commun.* **2011**, 32, 295-301.
- Sławomir Mięszowicz, Wojciech Chaładaj, Janusz Jurczak „Oxo-Diels-Alder Reaction of Danishefsky’s Diene with Aldehydes, Catalyzed by Chiral Tridentate Chromium(III)-Schiff Base Complexes” *Synlett*, **2010**, 1421-1425.
- Wojciech Chaładaj, Rafał Kowalczyk, Janusz Jurczak „Enantioselective Construction of *cis*-2,6-Disubstituted tetrahydropyrans: Total Synthesis of (-)-Centrolobine” *J. Org. Chem.* **2010**, 1740
- Wojciech Chaładaj, Janusz Jurczak „Origin of the Asymmetric Induction in Metallosalen-catalyzed Reactions of Aldehydes”, *Chem. Commun.*, **2009**, 6747
- Wojciech Chaładaj, Piotr Kwiatkowski, Janusz Jurczak „Improvement of the reactivity and selectivity of the oxo-Diels–Alder reaction by steric modification of the salen–chromium catalyst” *Tetrahedron Lett.* **2008**, 6810
- Wojciech Chaładaj, Piotr Kwiatkowski, Janusz Jurczak „Enantioselective glyoxylate-ene reactions catalysed by (salen)chromium(III) complexes” *Tetrahedron Lett.* **2007**, 48, 2405
- Piotr Kwiatkowski, Jakub Majer, Wojciech Chaładaj, Janusz Jurczak „Highly Diastereoselective Friedel-Crafts Reaction of Furans with 8-Phenylmenthyl Glyoxylate” *Org. Lett.* **2006**, 8, 5045  
highlighted in *Synfacts* **2007**, 71
- Wojciech Chaładaj, Piotr Kwiatkowski, Janusz Jurczak „Sterically Modified Chiral (Salen)Cr(III) Complexes – Efficient Catalysts for the Oxo-Diels-Alder Reaction between Glyoxylates and Cyclohexa-1,3-diene ” *Synlett* **2006**, 16, 3263  
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- Piotr Kwiatkowski, Wojciech Chaładaj, Janusz Jurczak „Catalytic asymmetric allylation of aldehydes using the chiral (salen)chromium(III) complexes” *Tetrahedron* **2006**, 62, 5116
- Piotr Kwiatkowski, Wojciech Chaładaj, Janusz Jurczak „A Sterically Modified (Salen)Chromium(III) Complex – An Efficient Catalyst for High-Pressure Asymmetric Allylation of Aldehydes” *Synlett* **2005**, 15, 2301
- Piotr Kwiatkowski, Wojciech Chaładaj, Małgorzata Malinowska, Monika Asztemborska, Janusz Jurczak „The high-pressure [4+2]cycloaddition of 1-methoxybuta-1,3-diene to the glycolaldehyde-derived heterodienophiles, catalyzed by chiral metallosalen complexes” *Tetrahedron: Asymm.* **2005**, 16, 2959
- Piotr Kwiatkowski, Wojciech Chaładaj, Janusz Jurczak „Enantioselective allylation of alkyl glyoxylates catalyzed by (salen)chromium(III) complexes” *Tetrahedron Lett.* **2004**, 45, 5343
- Shaozhong Ge, John F. Hartwig, Wojciech Chaładaj “Metal-Catalyzed Coupling of aryl and vinyl halides with alpha,alpha-difluorocarbonyl compounds” International patent application, WO 2014/165861 A1

#### **Non-academic activities**

- Vice-president of Student Tourist Club „PŁazik” at Technical University of Lodz – 1999-2000
- Honorable member of Student Tourist Club „PŁazik” at Technical University of Lodz – from 2007.
- 2<sup>nd</sup> Place in Academic Waterski Championships of Warsaw, September 1999
- 17<sup>th</sup> Place in Polish Waterski Championships, August 1999
- Organization and leadership of four high mountain expeditions – Lenin’s Peak in Pamir (Kyrgyzstan, 2003), Cerro Plata and Aconcagua in Andes (Argentina, 2004), First Polish ascent of Ambareen Sar in Karakoram (Pakistan, 2004), exploration of virgin Satmaro valley in Western Karakoram (Pakistan, 2007)
- Organization and participation in high mountain expedition “Explore Apolobamba” - Cordillera Apolobamba (Bolivia, 2009) – resulted in four first ascends on 5 000 m peaks, published in *American Alpine Journal* (2010)