

Curriculum vitae

Name: **Anna Śrębowata**
Date of birth: December the 23rd, 1975
Marital status: Married with three children
Address: Institute Physical Chemistry
Polish Academy of Sciences
Kasprzaka 44/52, Warsaw 01-224



Education Qualifications

- October 2016 PhD. DSc in Chemistry Institute of Physical Chemistry PAS
Catalysis for environmental protection: application of zeolite materials in non-destructive removal of chlorine from organic compounds
- January 2007 PhD in Chemistry
Department of Catalysis on Metals, Institute of Physical Chemistry PAS
Modified palladium catalysts in hydrodechlorination of organic compounds "
Supervisor: Prof. Zbigniew Karpiński
- June 1999 Master in Chemistry, field of Physical Chemistry
Department of Physical Chemistry, Jan Kochanowski University in Kielce
Catalytic oxidation of chlorine and carbon containing species deposited on zeolite catalysts "
Supervisor: dr Jerzy Oszczudłowski

Professional experience

- January 2020 - until now, IChF PAN, Spectroscopic and Microscopic (STM/AFM) Studies of Intermolecular interactions led by Professor Robert Nowakowski, position: institute professor
- November 2017 - December 2019 IChF PAN, Modern Heterogeneous Catalysis Group (MoHCA) led by dr hab. Jacinto Sá, position: Associate Professor,
- January 2015 - October 2017 IChF PAN, Modern Heterogeneous Catalysis Group (MoHCA) led by dr hab. Jacinto Sá, position: Senior Research Scientist,
- June 2008 - December 2014 IChF PAN, Department of Catalysis on Metals led by prof. Zbigniew Karpiński, position: Senior Research Scientist,
- April 2007 - May 2008 , Laboratoire de Réactivité de Surface, Université Pierre et Marie Curie, Paris Postdoc position,
- January 2007 March 2007 IChF PAN, Department of Catalysis on Metals led by prof. Zbigniew Karpiński, position: Assistant of professor
- December 2002 -December 2006 IChF PAN, PhD student
- October 1999 - June 2002 teacher of chemistry and physics

Research stays at home and abroad

- February 2020 France, Paris, Laboratoire de Réactivité de Surface, Université Pierre et Marie Curie, visiting scientist,
- October 2014 France, Paris, Laboratoire de Réactivité de Surface, Université Pierre et Marie Curie, visiting scientist;
- November 2008 France, Paris, Laboratoire de Réactivité de Surface, Université Pierre et Marie Curie, visiting scientist;
- April 2007- May 2008 France, Paris, Laboratoire de Réactivité de Surface, Université Pierre et Marie Curie, Post- doc position.

Lectures and presentations

- 2023 invited speech, 4th Global Summit on Catalysis and Chemical Engineering, Rome, Italy
- 2019 invited lecture, 7th Conference on Frontiers in Organic Synthesis Technology; Budapest, Hungary
- 2019 invited lecture, Unipetrol- Centre for Research and Education, Litvinov-Zaluzi, ORLEN UniCRE a.s
- 2019 plenary lecture LI Conference on Catalysis in Kraków
- 2018 invited keynote lecture, 14th International Pannonian Symposium on Catalysis; Stary Smokoviec, Slovakia
- 2018 invited sectional lecture Polish Chemical Society Meeting in Kraków
- 2016 oral presentation, 13th Pannonian International Symposium on Catalysis; Trest, Hungary
- 2014 oral presentation, 7th Tokyo Conference on Advanced Catalytic Science and Technology; Kyoto, Japan
- 2013 oral presentation, 17th International Zeolite Conference; Moscow, Russia
- 2013 oral presentation, 23rd North American Catalysis Society Meeting, Louisville, USA

Fellowships and awards

- 2023 Audience award for poster presentation during Annual Microsymposium, Institute of Physical Chemistry
- 2022 Cover Feature: Catalysts 12/2022
- 2020 Laureate of the Polish Prize of the Intelligent Development 2020 "Researcher of the future"
- 2020 Award for the poster presented during IPC PAS Annual Microsymposium ranked by a scientific jury
- 2019 Audience Award for the poster presented during IPC PAS Annual Microsymposium

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- 2018 Audience Award for the poster presented during IPC PAS Annual Microsymposium
 - 2017 Audience Award for the poster presented during IPC PAS Annual Microsymposium
 - 2015 Third prize in the competition in IChF for the best manuscript published in 2014
 - 2015 First prize in the competition for the best poster presented during the XLVII Annual Meeting on Catalysis in Kraków (award as one of the best two posters).
 - 2007 Scholarship funded by Renault during a postdoctoral fellowship in the period from April 2007 to June 2008, Laboratoire de Réactivité de Surface, Université Pierre et Marie Curie, Paris
 - 2007 Award for the PhD thesis
 - 2006 Award for the best oral presentation – Annual Microsymposium Institute of Physical Chemistry PAS

Other significant achievements

- 2023 Co-chair of one session, EuropaCat 2023
- 2022 Member of the National Advisory Board, 15th Pannonian International Symposium on Catalysis
- 2019 Co-chair of section 09, 62 Polish Chemical Society Congress
- 2015 24th NAM Conference abstract reviewer
- 2014 Co-Organizer of the Conference ‘Structure and Reactivity of Metal/Support Systems’
- 2013 Chair of the Organizing Committee of the 6th International Annual Meeting of GDRI Catalyse.

Reviewer of scientific articles in international journals such as Applied Catalysis B:Environmental, Catalysis. Today, Catalysis Communications, Current Environmental Engineering, Industrial & Engineering Chemistry Research, International Journal of Physical Sciences, Chemical Engineering, Reaction Kinetics Mechanisms and Catalysis, RSC Advances, Fuel

Reviewer of: 16 PhD dissertations and 3 habilitations

Supervisor of 6 MSc students and 7 PhD students.

Dr Emil Kowalewski, who completed his PhD thesis at IChF under my supervision, received the Best PhD Thesis Award from the Polish Catalysis Club. The awarded thesis title is "Catalytic hydrogenation for technological applications and environmental protection." Dr Kowalewski represented Poland in the Best PhD Thesis Award competition of the European Federation of Catalysis Societies.

2022, 2023 and 2024 - Member of the evaluation committee in the Gold Medal of Chemistry competition for the best bachelor's and engineering thesis

2015 Co-editor, co-author of the book: „Hydrogenation on cheap transition metals”, Taylor & Francis,

2014 Guest editor of *Recyclable Catalysis*,
2013 – 2014 vice-coordinator of the International Group of Research „GDRI Catalyse”

Member of the Scientific Council of the Institute of Physical Chemistry, Polish Academy of Sciences in the term of office 2023 -2026

Chairwoman of the permanent returning committee in the Scientific Council of the Institute of Physical Chemistry, Polish Academy of Sciences , in the 2023-2026 term

Member of the Education Committee in the Scientific Council of the Institute of Physical Chemistry, Polish

Academy of Sciences, in the 2023-2026 term

Member of the Audit Committee of the Polish Catalysis Club in the term of office 2022-2024

Since 2015, a member of the Club of Scholarship Holders of the Foundation for Polish Science

Since 2015, a member of the Polish Zeolite Society

Since 2011 a member of the Polish Catalysis Club, Member of the Polish Chemical Society

THE SCIENTIFIC GRANTS

Project entitled : Hydrodechlorination organic compounds as an example of environmental catalysis - Project numer KBN 4 T09B 098 24 **investigator**

Project entitled : New materials as a basis for environmentally friendly processes - Project number PBZ-KBN-116/T09/2004 **investigator**

Project entitled : Mono- and bimetallic catalysts for hydrodechlorination of organic compounds - Project number NN 204161636 **investigator**

Project entitled : OSCCAR'NOx. - **O**utils de **S**imulation et de **C**ompréhension de la **C**Atalyse de **R**éduction des oxydes d'azote **investigator**

Project entitled: The catalytic conversion of 1,2-dichloroethane, 1,1,2-trichloroethylene as an example of in environmental research - Iuventus Plus 2010 043070 (implementation period January 2011 – December 2011) **leader**

Project entitled: Catalysis for environmental protection – new nanomaterials for catalytic conversion of 1,2-dichloroethane and 1,1,2-trichloroethene into useful and nontoxic products – Projekt POMOST – Fundation for Polish Science POMOST/2011-4/11 (implementation period May 2012 – July 2014) **leader**

Project entitled: Catalytic purification of water from chloroorganic compounds – Project Sonata – National Science UMO-2011/03/D/ST5/05516 (implementation period August

2012 – December 2015) **leader**

Project entitled: Chemoselective hydrogenation of vitamins and fragrances precursors with transition metal nanoparticles grafted on resins, Project OPUS 8 National Science Centre UMO-2014/15/B/ST5/02094 (implementation period July 2015 – December 2018) **investigator**

Project entitled: Quantum control of nickel catalytic hydrogenation reactions by means of X-ray free electron lasers (XFELs). Directing catalytic processes (MOVIECAT) - Project Ideas Plus II IdP2015000164 (implementation period April 2016 - April 2019) - contractor in the period August 2016 - December 2018. **investigator**

Project entitled: Novel nanocatalysts in the continuous - flow selective hydrogenation processes towards formation of pharmaceutical intermediates, Project OPUS 17 National Science Centre 2019/33/B/ST5/01271 (implementation period January 2020 – September 2024) **leader**

Project entitled: Single-atom catalysts on functional carbon materials for the continuous-flow selective hydrogenation processes, Project OPUS 25 National Science Centre 2023/49/B/ST8/00872 (estimated implementation period October 2024 – September 2028) **leader**

Complete publication list

M. Legawiec-Jarzyna, A. Śrębowata and Z. Karpiński, „Hydrodechlorination of dichlorodifluoromethane (CFC-12) over Pd/Al₂O₃ and Pd-Au/Al₂O₃ catalysts”, Reaction Kinetics and Catalysis. Letters, 79 (2003) 157-163.

A. Śrębowata, W. Juszczak and Z. Karpiński, „Hydrodechlorination of 1,2-dichloroethane over differently reduced Pd/SiO₂ catalysts”, Polish Journal of Chemistry, 77 (2003) 1841-1848.

M. Legawiec-Jarzyna, A. Śrębowata, W. Juszczak and Z. Karpiński, „Hydrodechlorination of dichlorodifluoromethane (CFC-12) on Pd-Pt/Al₂O₃ catalysts”, Catalysis Today, 88 (2004) 93-101

M. Legawiec-Jarzyna, A. Śrębowata, W. Juszczak and Z. Karpiński, „Hydrodechlorination over Pd-Pt/Al₂O₃ catalysts. A comparative study of chlorine removal from dichlorodifluoromethane, carbon tetrachloride and 1,2-dichloroethane”, Applied Catalysis. A: General, 271 (2004) 61-68

M. Legawiec-Jarzyna, A. Śrębowata, W. Juszczak and Z. Karpiński, „Hydrodechlorination of

dichlorodifluoromethane, carbon tetrachloride and 1,2-dichloroethane over Pt/Al₂O₃ catalysts”, *Journal of Molecular Catalysis. A: Chemical*, 224 (2004) 171-177

A. Śrębowata, W. Juszczyk and Z. Karpiński, „Hydrodechlorination of 1,2-dichloroethane on modified palladium catalysts”, *Polish Journal of Environmental Studies* 13, Supplement V, 103 (2004) 103-106

A. Śrębowata, W. Juszczyk and Z. Karpiński, „Catalytic removal of chlorine from 1,2-dichloroethane”, *Polish Journal of Environmental Studies* 14, Supplement IV, 9 (2005) 1-4

M. Legawiec-Jarzyna, A. Śrębowata, W. Juszczyk and Z. Karpiński, „Hydrodechlorination of chloroalkanes on supported platinum catalysts”, *Reaction Kinetics and Catalysis. Letters*, 87 (2006) 291-163

A. Śrębowata, M. Sadowska, W. Juszczyk, Z. Kaszukur, Z. Kowalczyk, M. Nowosielska, Z. Karpiński, „Hydrodechlorination of 1,2-dichloroethane over silica-supported nickel-ruthenium catalysts”, *Catalysis Communications*, 8 (2007) 11-15

A. Śrębowata, W. Juszczyk, Z. Kaszukur, J. Sobczak, L. Kępiński and Z. Karpiński, „Hydrodechlorination of 1,2-dichloroethane and dichlorodifluoromethane over Ni/C catalysts. The effect of catalyst carbiding.”, *Applied Catalysis A: General*, 319 (2007) 181-192

A. Śrębowata, I. Stefanowicz-Pięta, W. Juszczyk, Z. Karpiński, „Chlorine removal from 1,2-dichloroethane over Ni/C catalysts” *Polish Journal of Chemistry*., 81 (2007) 1521-1529.

A. Śrębowata, W. Juszczyk, Z. Kaszukur and Z. Karpiński, „Hydrodechlorination of 1,2-dichloroethane on active carbon supported palladium-nickel catalysts”, *Catalysis Today*, 124 (2007) 28-35

Z. Karpiński, M. Bonarowska, D. Łomot, A. Śrębowata, P. Da Costa, J.A. Rodrigues, „Hydrogenolysis of carbon–halogen and carbon–carbon bonds over Pd/Nb₂O₅–Al₂O₃ catalysts”, *Catalysis. Communications*., 10 (2009) 1757-1761.

W. Juszczyk, J.C. Colmenares, A. Śrębowata, Z. Karpiński, „The effect of copper and gold on the catalytic behavior of nickel/alumina catalysts in hydrogen – assisted dechlorination of 1,2-dichloroethane”, *Catalysis Today* 169 (2011) 186-191

A.Śrębowata, W. Lisowski, J. Sobczak, Z. Karpiński, „Hydrogen-assisted dechlorination of 1,2-dichloroethane on active carbon supported palladium–copper catalysts”, *Catalysis Today* 175 (2011) 576-584

R. Baran, I.I. Kamińska, A. Śrębowata, S. Dźwigaj, „Selective hydrodechlorination of 1,2-dichloroethane on NiSiBEA zeolite catalyst: Influence of the preparation procedure on a high dispersion of Ni centers” *Microporous and Mesoporous Materials* 169 (2013) 120-127

R. Baran, A. Śrębowata, I.I. Kamińska, D. Łomot, S. Dźwigaj, „Catalytic activity of HAIBEA and Ni_xHAIBEA zeolites in hydrogen-assisted dehydrochlorination of 1,2-dichloroethane into vinyl chloride monomer”, *Microporous and Mesoporous Materials* 180 (2013) 209-218

R. Baran, A. Śrębowata, S. Casale, D. Łomot, S. Dźwigaj, „Hydrodechlorination of 1,2-dichloroethane on nickel loaded Beta zeolite modified by copper: Influence of nickel and copper state on product selectivity”, *Catalysis Today* 226 (2014) 134-140

A. Śrębowata, R. Baran, D. Łomot, D. Lisovytskiy, T. Onfroy, S. Dźwigaj, „Remarkable effect of postsynthesis preparation procedures on catalytic properties of Ni-loaded BEA zeolites in hydrodechlorination of 1,2-dichloroethane”, *Applied Catalysis B: Environmental*, 147 (2014) 208-220 .

A. Śrębowata, R. Baran, S. Casale, I.I. Kamińska, D. Łomot, D. Lisovytskiy, S. Dźwigaj, „Catalytic conversion of 1,2-dichloroethane over bimetallic Cu–Ni loaded BEA zeolites”, *Applied Catalysis B: Environmental*, 152–153 (2014) 317-327

A. Śrębowata, R. Baran, D. Lisovytskiy, I.I. Kamińska, S. Dźwigaj, „Catalytic conversion of trichloroethylene on nickel containing beta zeolites into value added products”, *Catalysis Communications* 57 (2014) 107-110

A. Śrębowata, R. Baran, I.I. Kamińska, T. Onfroy, J-M. Krafft, S. Dźwigaj, „Catalytic hydrogen-assisted dehydrochlorination of 1,2-dichloroethane over cobalt-containing beta zeolite”, *Catalysis Today*, 251 (2015) 73-80

I.I. Kamińska, A. Śrębowata, „Active carbon-supported nickel–palladium catalysts for hydrodechlorination of 1,2-dichloroethane and 1,1,2-trichloroethene”, *Research on Chemical Intermediates*, doi: 10.1007/s11164-015-199

A.Śrębowata, I.I. Kamińska, „Turbostratic carbon supported Ni-Pd alloys in aqueous-phase hydrodechlorination of 1,1,2-trichloroethene”, *Recyclable Catalysis 2* (2015) 17-22

A.Śrębowata, „Alumina modified by niobia supported nickel catalysts for hydrodechlorination of 1,2-dichloroethane”, *Recyclable Catalysis 2* (2015) 61–69

O. Machynskyy, A. Śrębowata, E. Kemitz, Z. Karpiński, „Hydrodechlorination of Carbon Tetrachloride and 1,2-Dichloroethane on Palladium Nanoparticles Supported on Metal Fluorides”, *International Journal of Green Energy* 12 (2015) 780–786

A. Śrębowata, I.I. Kamińska, D. Giziński, D. Wideł, J. Oszczudłowski, „Remarkable effect of soft-templating synthesis procedure on catalytic properties of mesoporous carbon supported Ni in hydrodechlorination of trichloroethylene in liquid phase”, *Catalysis Today* 251 (2015) 60-65

A. Śrębowata, I. Zielińska, R. Baran, G. Słowik, S. Dzwigaj, „Ag-Ni bimetallic SiBEA zeolite as an efficient catalyst of hydrodechlorination of 1,2-dichloroethane towards ethylene”, *Catalysis Communications* 69 (2015) 154-160

A. Śrębowata, R. Baran, G. Słowik, D. Lisovytskiy, S. Dzwigaj, „Influence of the postsynthesis preparation procedure on catalytic behaviour of Ag-loaded BEA zeolites in the hydrodechlorination of 1,2-dichloroethane into value added products”, *Applied Catalysis B: Environmental*, 199 (2016) 514-522

A. Śrębowata, K. Tarach, V. Girman, K. Góra-Marek, „Catalytic removal of trichloroethylene from water over palladium loaded microporous and hierarchical zeolites”, *Applied Catalysis B: Environmental* 181 (2016) 550-560

I. I. Kamińska, D. Lisovytskiy, S. Casale, A. Śrębowata, S. Dzwigaj, „Influence of preparation procedure on catalytic activity of PdBEA zeolites in aqueous phase hydrodechlorination of 1,1,2-trichloroethene” *Microporous and Mesoporous Materials*, 237, 1 (2017) 65-73

A. Śrębowata, Izabela I. Kamińska, S. Casale, D. Brouri, C. Calers, S. Dzwigaj, „The impact of the hydrodechlorination process on the physicochemical properties of bimetallic Ag-CuBeta zeolite catalysts”, *Microporous and Mesoporous Materials* 243 (2017) 56-64

E. Kowalewski, I. I. Kamińska, G. Słowik, D. Lisovytskiy, A. Śrębowata, „Effect of metal precursor and pretreatment conditions on the catalytic activity of Ni/C in the aqueous phase hydrodechlorination of 1,1,2-trichloroethene”, *Reaction Kinetics, Mechanisms and Catalysis*, 121 (2017) 3–16

I. Goszewska, D. Giziński, M. Zienkiewicz-Machnik, D. Lisovytskiy, K. Nikiforov, J. Masternak, A. Śrębowata, Jacinto Sá, “A novel nano-palladium catalyst for continuous-flow chemoselective hydrogenation reactions”, *Catalysis Communications* 94 (2017) 65–68

D. Giziński, I. Goszewska, M. Zieliński, D. Lisovytskiy, K. Nikiforov, J. Masternak, M. Zienkiewicz-Machnik, A. Śrębowata, J. Sá, “Chemoselective flow hydrogenation of α,β – Unsaturated aldehyde with nano-nickel”, *Catalysis Communications* 98 (2017) 17–21

E. Kowalewski, M. Zienkiewicz-Machnik, D. Lisovytskiy, K. Nikiforov, K. Matus, A. Śrębowata, J. Sá, „Turbostratic carbon supported palladium as an efficient catalyst for reductive purification of water from trichloroethylene”, *AIMS Materials Science*, 4 (2017) 1276 – 1288

M. Zienkiewicz-Machnik, I. Goszewska, A. Śrębowata, A. Kubas, D. Giziński, G. Słowik, K. Matus, D. Lisovytskiy, M. Pisarek, J. Sá, „Tuning nano-nickel selectivity with tin in flow hydrogenation of 6-methyl-5-hepten-2-one by surface organometallic chemistry modification”, *Catalysis Today*, 308 (2018) 38-44

I. I. Kamińska, D. Lisovytskiy, L. Valentin, Ch. Calers, Y. Millot, E. Kowalewski, A.

Śrębowata, S. Dzwigaj, "Influence of pretreatment and reaction conditions on the catalytic activity of HAlBEA and CoHAlBEA zeolites in vinyl chloride formation from 1,2-dichloroethane" *Microporous and Mesoporous Materials* 266 (2018) 32–42

M Bonarowska, M Zieliński, K Matus, J Sá, A Śrębowata, "Influence of microwave activation on the catalytic behavior of Pd-Au/C catalysts employed in the hydrodechlorination of tetrachloromethane" *Reaction Kinetics, Mechanisms and Catalysis* 124 (1) (2018) 375-388

D.Giziński, W. Błachucki, A. Śrębowata, M. Zienkiewicz-Machnik, I. Goszewska, K. Matus, D. Lisovytskiy, M. Pisarek, J. Szlachetko, J. Sá „On-the-fly catalyst accretion and screening in chemoselective flow hydrogenation" *ChemCatChem* 53 (2018) 3641-3646

M. Bonarowska, K. Matus, A. Śrębowata, Jacinto Sá, „Application of silica-supported Ir and Ir-M (M=Pt, Pd, Au) catalysts for low-temperature hydrodechlorination of tetrachloromethane", *Science of the Total Environment* 644 (2018) 287–297

E. Janiszewska, M. Zieliński, M. Kot, E. Kowalewski, A. Śrębowata, „Aqueous-phase hydrodechlorination of trichloroethylene on Ir catalysts supported on SBA-3 materials", *ChemCatChem* 10 (2018) 4109-4118 <https://doi.org/10.1002/cctc.201800873> 10 (2018) 4109-4118

K. Tarach A. Śrębowata A, E. Kowalewski, K. Gołabek, A. Kostuch, K. Kruczała, V. Girman, K. Góra-Marek, "Nickel loaded zeolites FAU and MFI: characterization and activity in water-phase hydrodehalogenation of TCE", *Appl. Catal. A, General* 568 (2018) 64-75

M. Radlik, A. Małolepszy, K. Matus, A. Śrębowata, W. Juszczuk, P. Dłużewski, Z. Karpiński, „Alkane isomerization on highly reduced Pd/Al₂O₃ catalysts. The crucial role of Pd-Al species", *Catalysis Communications* 123 (2019) 17-22

M. Radlik, A. Śrębowata, W. Juszczuk, K. Matus, A. Małolepszy, Z. Karpiński, "n-Hexane conversion on γ -alumina supported palladium–platinum catalysts" *Adsorption* 25 (2019) 843–853

I.I. Kamińska, E. Kowalewski, D. Lisovytskiy, W. Błachucki, W. Raróg-Pilecka, D. Łomot Anna Śrębowata, "Batch and flow hydrotreatment of water contaminated by trichloroethylene on active carbon supported nickel catalysts", *Appl. Catal. A, General* 582 (2019) 117110

M. Zienkiewicz-Machnik, I. Goszewska, D. Giziński, A. Śrębowata K. Kuzmowicz, A. Kubas, K. Matus, D. Lisovytskiy, M. Pisarek J. Sa, „Tuning nano - nickel catalyst hydrogenation aptitude by on - the - fly zirconium doping", *ChemCatChem* (2020) <https://doi.org/10.1002/cctc.202000235>

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- K. Pyra, K. A. Tarach, A. Śrębowata, I. Melián-Cabrera, K. Góra-Marek “Pd-modified beta zeolite for modulated hydro-cracking of low-density polyethylene into a paraffinic-rich hydrocarbon fuel”, *Appl. Catal. B: Environmental* (2020) 119070
- E. Kowalewski, M. Asztemborska, M. Bonarowska, K. Matus, A. Śrębowata, „Effect of unimodality and bimodality of Pd nanoparticles on the catalytic activity of Pd/SiO₂ in the removal of diclofenac from water” *Catalysis Communications* 106056
- B. Zawadzki, E. Kowalewski, M. Asztemborska, K. Matus, S. Casale, S. Dzwigaj, A. Śrębowata, „Palladium loaded BEA zeolites as efficient catalysts for aqueous-phase diclofenac hydrodechlorination” *Catalysis Communications* 106113
- I. Goszewska, M. Zienkiewicz-Machnik, W. Błachucki, A. Kubas, D. Giziński, K. Matus, K. Nikiforow, D. Lisovytskiy, A. Śrębowata, J. Szlachetko and J. Sá, “Boosting the Performance of Nano-Ni Catalysts by Palladium Doping in Flow Hydrogenation of Sulcatone”, *Catalysts* 2020, 10, 1267
- E. Kowalewski, B. Zawadzki, K. Matus, K. Nikiforow, A. Śrębowata, “Continuous-flow hydrogenation over resin supported palladium catalyst for the synthesis of industrially relevant chemicals”, *Reaction Kinetics, Mechanisms and Catalysis* doi: 10.1007/s11144-020-01922-5
- E. Kowalewski, M. Krawczyk, G. Słowik, J. Kocik, I.S. Pieta, O. Chernyayeva, D. Lisovytskiy, K. Matus, A. Śrębowata “Continuous-flow hydrogenation of nitrocyclohexane toward value-added products with CuZnAl hydrotalcite derived materials”, *Applied Catalysis A, General* 618 (2021) 118134
- A. J. Fernández-Roper, B. Zawadzki, E. Kowalewski, I.S. Pieta, M. Krawczyk, K. Matus, D. Lisovytskiy, and Anna Śrębowata „Continuous 2-methyl-3-butyn-2-ol selective hydrogenation on Pd/γ-Al₂O₃ as a green pathway of vitamin A precursor synthesis”, *Catalysts* 2021, 11, 501.
- A. Fernández-Roper, B. Zawadzki, K. Matus, W. Patkowski; M. Krawczyk, D. Lisovytskiy, W. Raróg-Pilecka, A. Śrębowata, „Co Loading Adjustment for the Effective Obtention of a Sedative Drug Precursor through Efficient Continuous-Flow Chemoselective Hydrogenation of 2-Methyl-2-pentenal”, *Catalysts* 2022, 12, 19.
- E. Kowalewski, A. Śrębowata: Catalytic hydrogenation of nitrocyclohexane as an alternative pathway for the synthesis of value-added products. *Catalysis Science & Technology, Catal. Sci. Technol.*, 2022, 12, 5478- 5487
- B. Zawadzki, M. Asztemborska, E. Kowalewski, K. Matus, A. Śrębowata, Application of Pd/γ-Al₂O₃ catalyst to remove diclofenac from water, *Gaz, Woda i Technika Sanitarna (Gas, Water & Sanitary Engineering)* 2022, 96, 40

E. Kowalewski, K. Matus, A. Gajek, A. Śrębowata, Catalytic Hydrogenation of Nitrocyclohexane with CuCo/SiO₂ Catalysts in Gas and Liquid Flow Reactors, *Catalysts* 2022, 12(9), 1062-1080

Bartosz Zawadzki, Antonio J. Fernández Ropero, Rahma Abid, Krzysztof Matus, Mirosław Krawczyk, Wojciech Patkowski, Wioletta Raróg – Pilecka, Dmytro Lisovystkiy, Anna Śrębowata, Mesoporous carbon supported Cu as the efficient catalyst for flow hydrogenation processes toward formation of products with pharmaceutical potential, *Microporous and Mesoporous Materials*, 112803

R. Abid., B. Zawadzki, J. Kocik, G. Słowik, J. Ryczkowski, M. Krawczyk, Z. Kaszukur, I. S. Pieta, A. Śrębowata. "Catalytic Performance of CuZnAl Hydrotalcite-Derived Materials in the Continuous-Flow Chemoselective Hydrogenation of 2-Methyl-2-pentanal toward Fine Chemicals and Pharmaceutical Intermediates" *Molecules* 2024, 29, 3345

B. Zawadzki, R. Abid, A. J. Fernandez-Ropero, W. Patkowski, A. Błachowski, K. Matus, M. Krawczyk, D. Lisovytskiy, M. Inger, A. Śrębowata, „Effect of iron oxidation state on the catalytic performance of Fe/C in liquid phase flow hydrogenation of 2-butyne-1,4-diol” *Fuel* 380 2025, 133170