Jan Klouda

Ph.D. candidate in analytical chemistry

Education

2015 – 2020 PhD. in analytical chemistry, *Charles University, Czech Republic*

2019 research internship**,** *Macquarie University, Australia*

2017 research internship**,** *University of Regensburg, Germany*

2013 – 2015 MSc. in analytical chemistry**,** *Charles University, Czech Republic*

2010 – 2013 BSc. in clinical and toxicological analysis**,** *Charles University, Czech Republic*

Work experience

2016 – 2020 Researcher
Charles University, Czech Republic

- Planning, executing and evaluating experiments for own research project supported by Grant Agency of Charles University and as team member for a project supported by Czech Science Foundation.
- Writing up grant proposals and scientific papers.
- Supervising under-grad students as supervisor-consultant.
- Presenting scientific results in both poster and oral presentation form at international conferences.
- Teaching under-grad laboratory courses.

Grants

1. **GAUK 1440217**: Electrochemical Oxidation of Sterols: Study on Mechanism and Utilization in Electroanalysis; 2017 – 2019; Role: Principal Investigator. ***Evaluated as "exceptionally good" by the Grant Agency.***
2. **GACR 19-11268S**: Electrochemical Methods: New Approaches for Characterization and Analysis of Steroids; 2019 – 2021; Role: Investigation Team Member.

Personal info

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170 00

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LinkedIn
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Skills

Analytical chemistry
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Electrochemistry
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Scientific writing
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Grant administration
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Communication
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Languages

English
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German
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Publication activity

Journal publications

1. Klouda J., Barek J., Nesmerak K., Schwarzova-Peckova K.: Non-enzymatic Electrochemistry in Characterization and Analysis of Steroid Compounds, *Crit. Rev. Anal. Chem.* **2017**, 47, 384–404. IF_{2019} = 4.568 (WOS)

2. Schwarz D., Noda Y., Klouda J., Schwarzova-Peckova K., Tarabek J., Rybacek J., Janousek J., Simon F., Opanasenko M.V., Cejka J., Acharjya A., Schmidt J., Selve S., Reiter-Scherer V., Severin N., Rabe J.P., Ecorchard P., He J.J., Polozij M., Nachtigall P., Bojdys M.J.: Twinned Growth of Metal-Free, Triazine-Based Photocatalyst Films as Mixed-Dimensional (2D/3D) van der Waals Heterostructures, *Adv. Mater.* 29, **2017**, 1703399. IF_{2019} = 27.398 (WOS)

3. Klouda J., Barek J., Kocovsky P., Herl T., Matysik F.M., Nesmerak K., Schwarzova-Peckova K., Bile acids: Electrochemical oxidation on bare electrodes after acid-induced dehydration, *Electrochem. Commun.* 86, **2018**, 99–103. IF_{2019} = 4.333 (WOS)

4. Klouda J., Barek J., Nesmerak K., Schwarzova-Peckova K., Novel voltammetric approach to detection of primary bile acids in serum samples, *Bioelectrochemistry* 134, **2020**, 107539. IF_{2019} = 4.722 (WOS)

Selected conferences

1. J. Klouda, K. Schwarzova-Peckova, J. Barek, F.-M. Matysik, Bile Acids: Possibilities of Electrochemical Oxidation in Mixed Media of Acetonitrile and Water, in: ANAKON 2017, Tübingen, Germany, 3 – 6 April 2017. Poster. Book of Abstracts.

2. J. Klouda, J. Barek, K. Schwarzova-Peckova, Electrochemical Oxidation of Primary Bile Acids, in: 22nd Meeting of the Portuguese Electrochemical Society, Ponta Delgada, Portugal, 19 – 22 June 2017. Oral Presentation, Book of Abstracts, p. 25.

3. J. Klouda, J. Barek, and K. Schwarzova-Peckova, Voltammetric behaviour of primary bile acids after acid induced dehydration, in: 17th International Conference on Electroanalysis (ESEAC), Rhodes, Greece, 3 – 7 June 2018. Poster. Book of Abstracts, p. 129.

4. J. Klouda, A Zarybnicka, J. Barek, and K. Schwarzova-Peckova, Voltammetric Determination of Smith-Lemli-Opitz Syndrome Biomarker 7-Dehydrocholesterol, in: 2nd Cross-Border Seminar on Electroanalytical Chemistry, Budweis, Czech Republic, 10 – 12 April 2019. Oral Presentation. Book of Abstracts. ***Best presentation award: 1st place.***

5. J. Klouda, A Zarybnicka, J. Barek, and K. Schwarzova-Peckova, A Novel Approach to 7-Dehydrocholesterol Determination in Smith-Lemli-Opitz syndrome Diagnosis, in: XXV International Symposium on Bioelectrochemistry and Bioenergetics, Limerick, Ireland, 26 – 30 May 2019. Oral Presentation. Book of Abstracts, p. 113.

Other academic activities

Member of the Academic Senate (2017-2020). Memeber of the Committee on Legislative Affairs (2017-2019), Committee for Development Policy (2018-2020), and Economic Committee (2019).