



Yasin Ugur Kayran

Analytical Laboratory Manager

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Summary

I am a results-driven, energetic chemist with a strong foundation in analytical techniques. I have co-authored 16 peer-reviewed articles, showcasing my curiosity and commitment to advancing scientific knowledge. Proficient in a wide range of analytical techniques including DSC, SEM, XRF, AFM, and more, I bring technical expertise to every project.

Work Experience

01.01.2020 - present

Analytical Lab Manager: Vesuvius Foseco Netherland BV

- Organize the training for the researchers in the Analytical team
- Overseeing and guiding team members for optimal performance
- Audit the concluded reports, and ensure data integrity
- Provide guidance to the other research teams
- Develop methods for requested analysis
- Ensure a well-organized and safe working environment

01.01.2019 - present

Health and safety officer: Vesuvius Foseco Netherland BV

- Regulate and monitor the monthly safety audits
- Organize safety training sessions
- Inform colleagues about the safety standards and policies
- Support the HSE manager

01.07.2018 - 01.01.2020

Analytical Chemist: Vesuvius Foseco Netherland BV

- Perform chemical analysis for ongoing investigations in the research center.
- Report the analysis results
- Organize the maintenance and calibration services of the instruments in the analytical lab

Technical Skill

SEM, DSC, XRF, XRD, ICP-OES, Electrochemical Measurement Techniques (CV, DPV, SWV, EIS), AFM, Raman Spectroscopy, SERS, Python programming language

Educational Background

Ph.D.: 04.2014 – 12.2017	Faculty of Chemistry and Biochemistry, Ruhr University Bochum - Bochum, Germany “Fabrication and characterization of tunable plasmonic nanovoid structures and their application in DNA/RNA hybridization assays”
Master Degree: 09.2009 – 02.2012	Institute of Health Sciences, Analytical Chemistry Ege University- Izmir, Turkey “The design and applications of optical (SPR Based) and electrochemical biosensors for genetic diseases and microorganism detection”
Bachelor Degree: 09.2005 – 07.2009	Faculty of Science, Biochemistry Ege University – Izmir, Turkey “A review on enzyme-based biosensors for urate detection”

Scholarships and Awards

01.09.2010 – 30.11.2010	Visiting Scientist - Masaryk University , Czech Republic “Electrochemical Linear Scan Voltammetric Analysis of Xanthine Derivatives at PGEs”
15.12.2010 – 15.12.2011	MSc Scholarships - The Scientific and Technological Research Council of Turkey “Nucleic Acid Based Biosensors for Detection of Biological Agents by Using Carbon Electrode Materials”
01.09.2013 - 01.04.2014	Visiting Scientist - Ruhr University Bochum , Germany
01.04.2014 - 08.12.2017	Ph.D. Scholarships - Ruhr University Bochum , Germany

Key Publications

- 1 **Yasin Ugur Kayran**, Vera Eßmann, Stefanie Grützke, Wolfgang Schuhmann.
Selection of Highly SERS-Active Nanostructures from a Size Gradient of Au Nanovoids on a Single Bipolar Electrode. **ChemElectroChem** (2015), 3 (3), 399-403.
- 2 **Yasin Ugur Kayran**, Daliborka Jambrec, Nergis Cinar, Wolfgang Schuhmann.
Monitoring potential-induced DNA dehybridization kinetics for SNP detection using in-situ surface enhanced Raman scattering. **ChemElectroChem**, (2018), 5, 1-6
- 3 **Yasin Ugur Kayran**, Daliborka Jambrec, Wolfgang Schuhmann.
Nanostructured DNA Microarrays for Dual SERS and Electrochemical Read-out. **Electroanalysis**, (2019), 31, 2.