

Ievgen Duboriz

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RESEARCH INTERESTS

Specializing in Extractive Electrochemistry, Material Purity QA/QC, Process Design Feasibility

SUMMARY

Senior R&D Engineer and Technical Electrochemist with over 15 years of experience bridging fundamental physical chemistry, chemical process simulation, and analytical instrumentation. Expert in high-purity material characterization (ICP-OES), electrochemical kinetics, gas flow simulation, and technical consulting for process optimization.

PROFESSIONAL EXPERIENCE

Chemical Engineering consultant

Cx Bio

June 2022 – May 2025

Slavutich, UA

Consulting the team on questions related to chemistry, chemical technology

- **Technical Advisory & Feasibility Consulting:** Provided senior guidance on chemical process engineering, energy balance calculations, thermal flow estimation, and equipment sizing for complex chemical systems.
- **Technology & Literature Review:** Evaluated patents, technical publications, and emerging chemical engineering datasets to identify technical risks and optimization strategies for client projects.

Chemist/Chemical Engineer (Freelance)

Upwork

Mar 2019 – May 2022

Slavutich, UA

Technical support in projects related to chemistry

- **R&D Strategy & Prototype Validation:** Advised client engineering teams on chemical concept validation, process optimization, and prototype development from bench scale to proof-of-concept.
- **IP & Technology Landscape Assessment:** Conducted comprehensive patent surveys and technical literature reviews to guide strategic product development and technological risk mitigation.

R&D Engineer

OPTIFINER UG (University Bremen Spin-Off)

Nov 2017 - Feb 2019

Bremen, DE

Simulation and 3D visualization of gas flow dynamic within vacuum chambers

- **Process Simulation & Vacuum Systems Engineering:** Modeled and visualized complex gas flow dynamics within ALD vacuum chambers to optimize deposition parameters and reactor geometry.
- **Control Systems & Hardware Integration:** Designed and assembled electro-technical control systems for high-precision vapor deposition tools.

Analytical Chemist Engineer

Pi Vi Ltd

Jan 2015 - Oct 2016

Svaliava, UA

ICP-OES spectroscopy analytical lab planning and launching

- **Analytical QA/QC Laboratory Launch:** Planned, launched, and managed an ICP-OES analytical testing laboratory dedicated to high-purity material verification for solar cell manufacturing.
- **Purity Verification & Instrument Calibration:** Maintained and calibrated Perkin-Elmer Optima 4300 DV spectrometers to ensure trace-element purity control for silicon-based semiconductor materials.

R&D Engineer

IBOPC Research Institute, Department of Functional Materials

Jul 2004 - Jan 2015

Kyiv, UA

Sovereign projects coordination and laboratory management

- **R&D Project Leadership:** Managed sovereign research projects and lab operations focused on physical chemistry, electrochemical kinetics, and inorganic/organic materials synthesis. Successfully developed semitransparent electrochromic electrode for RGB devices.
- **Sensor Systems & Material Synthesis:** Engineered novel optical sensing platforms and composite thin-film electrodes, coordinating multi-disciplinary research initiatives..

EDUCATION**Specialist**, Technical Electrochemistry

National Technical University of Ukraine "KPI"

2005 - 2007

Kyiv, UA

- Physical Chemistry
- Instrumental Analytics
- Engineering
- Coating Design

B.Eng., Chemical Technology and Engineering

National Technical University of Ukraine "KPI"

2001 - 2005

Kyiv, UA

- Analytical chemistry
- Inorganic chemistry
- Chemical Engineering
- Surface Finishing

QUALIFICATIONS**Materials Science:** Surface Chemistry and Physics, Protective and Functional Coatings, Material Modification and Characterization.**Physical Chemistry:** Instrumental Analysis, Electrochemistry.**Analytical Methods:** ICP-OES, UV-Vis, FTIR, XRD, SEM, Cyclic Voltammetry, Potentiometric titration.**Engineering:** Equipment Design, Prototypes Development, Fine Mechanics, Electrical Engineering.**Electrochemistry:** Electrochemical Kinetics, Materials for Electrochemical Energy Storage, Electropolymerization, Electroplating, Corrosion Protection.**Computational Modeling:** CAD-Software, Physical Processes Simulation, Integrated Circuits and Printed Circuit Boards Design and Simulation Software (EDA).

LANGUAGES:

English, Russian, Ukrainian

SELECTED PUBLICATIONS

- A. Pud, **Ie. Duboriz**, Yu. Piryatinski, O. Dimitriev, *"Anion-chromic" interactions of emeraldine base with hydroxide and halide anions in the solid polymer matrix*, Synthetic Metals, Vol. 209, **2015**, pp 232-239.
- **Ie. Duboriz**, A. Pud, *Polyaniline/poly(ethylene terephthalate) film as a new optical sensing material*, Sensors and Actuators B: Chemical, Vol. 190, **2014**, pp 398-407.
- D. Sydorov, **Ie. Duboriz**, A. Pud, *Poly(3-methylthiophene)-polyaniline couple spectroelectrochemistry revisited for the complementary red-green-blue electrochromic device*, Electrochimica Acta, Vol. 106, **2013**, pp. 114-120.

August 2, 2026

Slavutich