CHUANJUN JIAO

4635 BLUE STAR RUN APT 102 · Wilmington, NC 28411 · (213)716-2177 · cjiao16@outlook.com

EXPERIENCE

IKA Works, Inc., Product Manager BioProcessing Solutions **Aug 2023 - Present**

- Providing electrosynthesis training, demonstration, and technical support to chemists from 50+ pharmaceutical companies.
- Hosted a 45-minute bioprocess upscaling strategy webinar and 25-minute virtual workshop on gravimetric feeding.
- Giving bioreactor training to 20+ people sales teams and 200+ customers.
- Managing the bioprocessing product line in North America and increased its yearly sales number by 50% in 2024.

IKA Works, Inc., Global Product Specialist/ The Scripps Research Institute, Research Assistant **Oct 2018 - Aug 2023**

- Field-tested 3 electrosynthesis accessory prototypes, lead product launch, and advised marketing from scientific perspective.
- Implemented the condition translation from two synthetic electrochemical reactions to standardized electrosynthesis platform.
- Presented 60-minute lectures titled *E-llluminating the Renaissance of Organic Synthesis* to chemists in biotechnology.

Mangan Inc., Associate Scientist/ Amgen, Senior Scientist **Jan 2018-Sep 2018**

- Performed a set of three cleanability studies on daily basis.

Southern California Gas Company, Engineering Intern **June 2017-Sep 2017**

- Conducted research and analysis on the market and technology trends in the power industry.
- Participated in a power to gas (P2G) project.
- Compiled a technical & market quarterly report.

UCLA Chemical and Biomolecular Engineering Department, Teaching Assistant **Mar 2017-June 2017**

- Guided a laboratory class of 24 undergraduate students with safe and correct experimental techniques.
- Took charge of laboratory safety including equipment operating safety, experimental safety, and emergency evacuation.
- Graded students' lab reports, quizzes, presentations.

UCLA Chemical and Biomolecular Engineering Department, Research Assistant **Sep 2015-Oct 2017**

- Analyzed profits of the production process to justify the commercial value of proposed zero-emission power plant.
- Carried out within a Visual C++ platform heat and power integration of several power plant flowsheets.
- Used Python to manage stream data, including temperature, heat load.
- Developed and simulated a novel coal/natural gas power plant flowsheet within the UniSim platform.

College of Chemistry, Jilin University, China; Research Assistant **Aug 2013-May 2015**

- Prepared novel organic luminescent materials as light-emitting diodes.
- Participated in the "National Innovative Project".

EDUCATION

Master of Science, Henry Samueli School of Engineering, UCLA **Oct 2017**

- Thesis: "Coal power plants with enhanced profitability and no carbon dioxide emissions".
- Awards: University Fellowship (2016).

Bachelor of Science, Jilin University, China **Jun 2015**

- Awards: Au-Chin Tang Special Scholarship, College of Chemistry (2015); Scientific Research Individual Awards, College of Chemistry (2014); Third University Scholarship (2014).

PUBLICATIONS

- *The facile realization of RGB luminescence based on one yellow emissive four-coordinate organoboron material*, *Chem. Commun.*, **2015**, 51, 7701.
- *2-(2-Hydroxyphenyl)benzimidazole-Based Four-Coordinate Boron-Containing Materials with Highly Efficient Deep-Blue Photoluminescene and Electroluminescence*, *Inorg. Chem.*, **2015**, 54, 2652.
- *Emission behaviors of unsymmetrical 1, 3-diaryl-β-diketones: A model perfectly disclosing the effect of molecular conformation on luminescence of organic solids*, *Sci. Rep.*, **2015**, 5, 9140.

PRESENTATIONS

- *"E"lluminating the Renaissance of Organic Synthesis*, presented at Pacific Symposium on Radical Chemistry and to customers including EMD Serono Inc., Relay Therapeutics, University of Freiburg, University of Konstanz. (Recording is available at https://www.ika.com/zh/Products-Lab-Eq/Electrochemistry-Kit-csp-516/ElectraSyn-20-Package-Videos-cpvd-20008980/)
- *Coal Power Plants with Enhanced Profitability and No Carbon Dioxide Emissions*, Coal Conversion to Value-Added Chemicals and Power in Modular Systems, 2017 AIChE® Annual Meeting.
- *Cogeneration of Electricity, Hydrogen and Carbon Containing Chemicals from Natural Gas-Coal Supplies*, Environmental Division, 2016 AIChE® Annual Meeting.

SKILLS

- Electrochemical synthesis.
- Expertise in Data Analysis using Pandas, NumPy, and Matplotlib using python.

- Presentation and public speaking.