

Peter YAO

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Work Experience

Lonza AG

Basel, Switzerland

Lead Scientist

Nov 2020 - Present

- Drug Product Services: pharmaceutical development studies for liquid and lyophilized biologic drug products. Laboratory-scale modeling of fill/finish processes.

Janssen Pharmaceuticals

Schaffhausen, Switzerland

Senior Associate Scientist

Oct 2015 - Oct 2020

- Large Molecule Process Development: aseptic fill/finish processes for new product introductions and technical transfers at Schaffhausen facility.
- Small Molecule API: support for late-stage chemical development of small molecule APIs and intermediates. Crystallisation process development and process analytical technologies.

Bristol-Myers Squibb

New Brunswick (NJ), USA

Research Scientist

Jan 2008 - Aug 2013

- Chemical Development: support for early-stage chemical development of small molecule APIs and intermediates. Synthetic route evaluation. Enabling syntheses to deliver clinical material.

Education

University of Illinois at Urbana-Champaign

Illinois, USA

MS Chemistry

2007

Case Western Reserve University

Ohio, USA

BS Chemical Engineering

2004

Qualifications

process modeling, process scale-up, statistical analysis, process analytical technologies (PAT), aseptic fill/finish, sterile filtration, data visualisation, chemical process optimisation, R, python

Languages

English : Native - French : B2 - German : B1

Publications

1. Kokil, A., Yao, P., & Weder, C. (2005). Organometallic Networks Based on 2,2'-Bipyridine-Containing Poly(*p*-phenylene ethynylene)s. *Macromolecules*, 38(9), 3800–3807.
2. Denmark, S. E., Eklov, B. M., Yao, P. J., & Eastgate, M. D. (2009). On the Mechanism of Lewis Base Catalyzed Aldol Addition Reactions: Kinetic and Spectroscopic Investigations Using Rapid-Injection NMR. *Journal of the American Chemical Society*, 131(33), 11770–11787.