



S. EPHRAIM NEUMANN

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EDUCATION

Currently: Doctor of Philosophy in Chemistry | University of California Berkeley
2019 – 2023

**Masters of Science in Materials chemistry and Nanochemistry | Leibniz
University Hannover**

10/2016 – 09/2018

Dissertation topic: “Electrically controlled drug release from drug-loaded polymer nanocomposite films.”

Bachelors of Science in Chemistry | Leibniz University Hannover

10/2011 – 03/2017

Dissertation topic: “Transition metal-catalyzed oxy-functionalization of α -humulene to zerumbone.”



RESEARCH EXPERIENCE

Visiting Scholar | University of California Berkeley

04/2019 – 08/2019

Advisor: Prof. Omar Yaghi

- Research in Reticular Chemistry for CO₂ capture
- Synthesis and design of new structures in covalent organic frameworks

Visiting Researcher | Stanford University

10/2017 – 06/2018

Advisor: Prof. Richard N. Zare

- Research in controlled drug delivery using electro- and pH-responsive polymers



ACADEMIC AWARDS AND SCHOLARSHIPS

- Scholarship from German Academic Exchange Service (DAAD)
- Best Poster Award at Nano World Conference in San Francisco



PUBLICATIONS & PRESENTATIONS

Neumann, S. E., Chamberlayne, C. F., Zare R. N., Electrically controlled drug release using pH-sensitive polymer films, *Nanoscale*, **2018**, 10, 10087-10093.

Neumann, S. E., Chamberlayne, C. F., Zare R. N., *Controlled Release from Drug-Loaded Polymer Nanocomposite Films*, Nano World Conference, **2018**, San Francisco, CA.

Neumann, S. E., Chamberlayne, C. F., Zare R. N., *Controlled Release from Drug-Loaded Polymer Nanocomposite Films*, Stanford Polymer Collective Symposium, **2018**, Stanford, CA.