



Tom Kuster

Doctoral Candidate Chemistry

I am an enthusiastic and curious chemist, passionate about learning and discovering new insights in the field of chemistry

Personal Information

6 Dec 1999, Maastricht
The Netherlands

Languages

English – *Fluent*
Dutch – *Native*
German – *Intermediate*

Specializations

Peptide Synthesis
Polymer Synthesis
Photochemistry
Matlab / Python

Activities

First Aid Certificate

Volunteer Trainer
HSV CHEETHAS

Education

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| 2024 – Current | Doctoral Candidate in Institute of Organic Chemistry
Albert-Ludwig University of Freiburg, Germany
Research with Dr. T. Schnitzer on Data-Driven approaches for the Design of new Peptidic Organocatalysts |
| 2021 – 2024 | Master Chemical Engineering and Chemistry
Technical University of Eindhoven, The Netherlands
Master thesis at university Freiburg with Dr. T. Schnitzer on: “Kinetic Resolution of Chiral Carboxylic Acid derivatives with Peptidic Organocatalysts”
Average grade: 8.8 / 10 CUM LAUDE |
| 2018 – 2021 | Bachelor Chemical Engineering and Chemistry
Technical University of Eindhoven, The Netherlands
Bachelor thesis at TU Eindhoven with Dr. F. Eisenreich on: “Photoredox-Catalyzed Reduction of Halogenated Arenes in Water by Amphiphilic Polymer Nanoparticles”
IchemE accreditation
Average grade: 8.1 / 10 CUM LAUDE |
| 2012 – 2018 | Vorbereidend Wetenschappelijk Onderwijs (VWO)
Graaf Huyn College, The Netherlands
“Nature en Technique” and “Nature en Health” with Economics
Average grade: 8.3 / 10 CUM LAUDE |

Work Experience

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| Feb 2023 – Jun 2023 | Industrial Internship GNT Mierlo, The Netherlands
Performing product stability improvement test on plant-based food colorants |
| Sep 2022 – Jan 2023 | Student Assistant of Prof. Ž. Tomović, TU Eindhoven
Synthesis and characterization of monomers for novel properties in polymers |
| Feb 2022 – Aug 2022 | Student Assistant of Prof. E.W. Meijer, TU Eindhoven
Design, synthesis and characterization of supramolecular polymers with novel applications |

Scholarships

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| 2024 | Evonik Stiftung Fellowship
Fellowship to support talented young scientists during their Doctoral studies in the field of Digital Chemistry |
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Photoredox-Catalyzed Reduction of Halogenated Arenes in Water by Amphiphilic Polymeric Nanoparticles

F. Eisenreich, T.H.R. Kuster, D. van Krimpen, A.R.A. Palmans

Molecules **2021**, 26, 5882

Link: <https://doi.org/10.3390/molecules26195882>

Functionalization of Supramolecular Polymers by Dynamic Covalent Boroxine Chemistry

M.D. Preuss, T. Schnitzer, S.A.H. Jansen, S.C.J. Meskers, T.H.R. Kuster, X. Lou, E.W. Meijer, G. Vantomme

Angewandte Chemie International Edition **2024**

Link: <https://doi.org/10.1002/anie.202402644>