KONINKLIJKE
HOLLANDSCHE MAATSCHAPPIJ
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Juryrapport
Martinus van Marum Prijs 2024 – Chemie en chemische technologie

Dr. C. (Charlotte) Vogt
Structure Sensitivity in Catalysis
Universiteit Utrecht, maart 2020

The jury has awarded the Martinus van Marum Prijs 2024 to Charlotte Vogt, for her remarkable achievements and her transformative contributions to the field of catalysis for circular and sustainable chemistry.

Charlotte Vogt received her PhD degree with highest distinction from Utrecht University, in 2019. Only five years later, she is already leading her own research group at the Technion Institute of Technology, in Israel: the Vogt Laboratory of Catalysis for Fuels of the Future.

Vogt is concerned with the major challenges of our time, including climate change. She seeks to contribute significantly to solving these challenge, by making better catalysts, to make chemical processes easier and more effective. This requires developing special spectroscopic methodologies, because these techniques offer access to unprecedented information and details on how these catalysts work. Central to her work is the chemical transformation of carbon dioxide to valuable chemicals and fuels. The outcomes of this research line have been nothing short of remarkable, as evidenced by the prestigious publications to which she contributed as a main author, including *Nature Chemistry Reviews, Nature Communications, and Nature Catalysis*, to name only but a few.

The academic excellence of Charlotte Vogt has been recognized through internationally recognized and prestigious awards. In 2021, the same year that she founded her research laboratories, Charlotte Vogt was listed as one of *Forbes*' '30 under 30'. In 2022, she won the Clara Immerwahr award for her achievements in catalysis research, and in 2023, she won the Beilby medal and prize, was listed on coveted *Chemical & Engineering News* 'Talented 12' list, and won the first EuroTech Future Award.

Beyond her scientific achievements, Charlotte's impact extends to her engagement with society. During her studies she volunteered with schoolchildren in Ulaanbaatar, Mongolia, demonstrating a commitment to community outreach and education. She also holds a master's degree in business management, reflecting her interdisciplinary approach to problem-solving and innovation.

In a recent interview with the largest weekly news magazine in the Netherlands, Charlotte describes herself as someone who "talks loud" and possesses a "fairly fiery character". By recognizing and rewarding her contributions, our committee wishes to underscore the value of her singular voice and unique contributions, which make the Dutch chemistry community very proud.

Congratulations, Charlotte Vogt, on receiving the Martinus van Marum Prize 2024. Your determination and dedication inspire us all, reminding future generations of young chemists

to embrace their singular voice and style, and to keep contributing with original and creative chemistry, in order to bridge our most pressing societal challenges.

Prof. dr. H.J.M. (Huub) de Groot, hoogleraar biofysische organische chemie Universiteit Leiden
Prof. dr. N.H. (Nathalie) Katsonis, hoogleraar scheikunde Rijksuniversiteit Groningen

De jury kwam bijeen via Zoom op 28 maart 2024. De vergadering werd voorgezeten door mr. M. (Mieke) Zaanen, maatschappelijk lid KHMW. Tevens was ter vergadering aanwezig prof. dr. A.P. IJzerman, secretaris natuur- en medische wetenschappen KHMW (notulen).