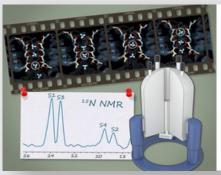
Newsletter Spring 2022



Research Highlights

Click here to take a brief look at what researchers at UniSysCat have been working on the past few months.



Current Affairs

Click here to view the most recent events, awards and other affairs hosted by UniSysCat.

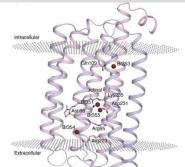


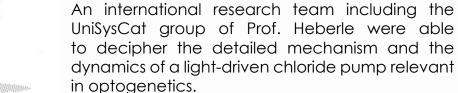
Upcoming Events

Click here to take a look at the colloquia and other events coming up.

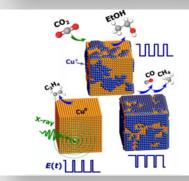


Research Highlights





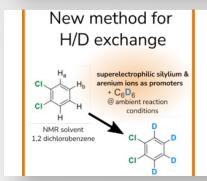
chloride pump



About the selectivity of catalysts

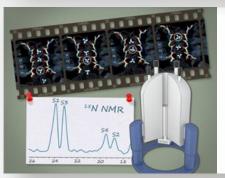
A research team involving the UniSysCat group of Prof. Beatriz Roldán Cuenya from the FHI Berlin and researchers from the Christian Albrechts University in Kiel have identified a new method of steering the structure and selectivity of catalysts for CO₂ reduction using pulsed electrolysis.

Dynamics and mechanism of a light-driven



New deuteration protocol for preparing NMR solvents

Tao He, Hendrik F. T. Klare and UniSysCat group leader Prof. Martin Oestreich introduce a new deuterationprotocol by which otherwise expensive or non-commercially available NMR solvents such as 1,2-dichloro- and 1,2-difluorobenzene can be prepared.



Finally visible: How ions travel through the selectivity filter of an ion channel

The research group of Prof. Adam Lange have found a new method of direct detection of bound ammonium ions in the selectivity filter of ion channels by solid-state NMR.



Research Highlights



Release of the "Kraken"

UniSysCat group leader Dr. Tobias Gensch as part of an international team of researchers introduces Kraken: "an extensive virtual open-access library covering monodentate organophosphorus(III) ligands targeted at facilitating the design and optimization of catalytic processes."





Faraday Medal for Professor Beatriz Roldán Cuenya

The FHI announced that Beatriz Roldán Cuenya will be awarded the prestigious Faraday Medal from the Royal Society of Chemistry of UK for 2022. The medal will be presented to her in September this year at "Electrochem2022" in Edinburgh.



UniSysCat at Mall Anders

In Mall Anders, scientists from Berlin have the chance to present their research to an unusual audience: shopping mall visitors. You'll be able to dive into the research of UniSysCat on different occasions from April to June 2022.



MitWissenschaft: is the chemistry of tomorrow green?

On February 28th at the Humboldt Forum, UniSysCat presented the ongoing active research the cluster is doing to the public.



Women in UniSysCat

On the 11th of March, for International Day of Women and Girls in Science, we want to show that the women in UniSysCat are more than just world-class researchers, they are also great role models for young female scientists. We are proud of our female researchers!





Meet Female UniSysCat Scientists

UniSysCat participated in the IUPAC Global Women's Breakfast on March 16 with an online seminar: The four female group leaders Franziska Hess, Henrike Müller-Werkmeister, Ariane Nunes Alves and Petra Wendler talked to interested young researchers about their careers in science.



Han Sun appointed as a W2-S professor at the Technical University of Berlin

The group of Dr. Han Sun belongs to the Chemical Biology Platform at the Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP) in Berlin. She has been officially appointed as a W2-S professor at the Technical University of Berlin.



Clean Catalysis: Prof. Dr. Martin Oschatz receives ERC Starting Grant

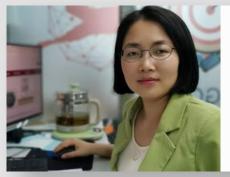
This year, the former UniSysCat researcher Prof. Martin Oschatz from the University of Jena is receiving this coveted grant for his "CILCat" project, with which he aims to revolutionize catalysis.



Fuels from CO₂: how a chemist wants to stop climate change

Clara Immerwahr awardee Dr. Charlotte Vogt recently gave an interview to the Berliner Zeitung about saving the climate with catalysts and the struggles of women in scientific research.





Goodbye Shuang Li and good luck as a Professor in China!

Recently, she obtained a professorship at the College of Polymer Science and Engineering, State Key Laboratory of Polymer Materials Engineering, Sichuan University in Chengdu, China. With this step, Shuang Li is now leaving UniSysCat. We congratulate her on her new position!



Tenth episode of the science podcast "exzellent erklärt" now online

Prof. Brakhage tells us that the next antibiotic agent may be waiting to be discovered in our front garden. He is part of the Balance of the Microverse Cluster and Director at the Leibniz Institute for Natural Product Research and Infection Biology.



Ninth episode of the science podcast "exzellent erklärt" now online

Prof. Michael Köhl and Prof. Sebastian Diehl investigate the fundamentals of quantum mechanical phenomena. The Cluster of Excellence ML4Q brings together their expertise in experimental and theoretical physics to create network architectures for quantum computers.



Eighth episode of the science podcast "exzellent erklärt" now online

Prof. Jens Friedrichs and Prof. Rolf Radespiel from the Cluster of Excellence SE²A in Braunschweig have an ambitious goal: by 2050, aircrafts should be flying sustainably. These new-generation aircrafts will no longer have much in common with aircraft as we know them.





Seventh episode of the science podcast "exzellent erklärt" now online

The Cluster of Excellence CECAD (Cellular Stress Responses in Aging-Associated Diseases) is an interdisciplinary research network which focuses on researching and deciphering molecular mechanisms of aging and age-associated diseases.



Upcoming Events



"Ein exzellenter Science Slam" at Mall Anders

Prepare for an extraordinary Science Slam! Young scientists from Berlin's Clusters of Excellence present current projects to all interested Berliners in a science slam format. They want to illustrate how their research can influence the tomorrow. Date: 30.04.22



"Meet the Scientist" at Mall Anders

At the casual "Meet the Scientist" event, you will have the opportunity to meet scientists from the excellence clusters of the Berlin University Alliance. Nadia Elghobashi-Meinhardt from the group of Prof. Mroginski will present her work as a computational chemist at UniSysCat. Date: 06.05.22



UniSysCat - Colloquium

Prof. Ezgi Karaca from the Karaca Lab on Computational Structural Biology at the Izmir Biomedicine and Genome Center in Izmir, Turkey, will be sharing her research insights on integrative dynamic modeling of biomolecular complexes.

Date: 25.05.22



Clara Immerwahr Award Ceremony 2022

This year's Clara Immerwahr Award will be awarded to Dr. Charlotte Vogt for her outstanding research in catalysis. The award ceremony will be hosted at the Technical University of Berlin on the third of June, 2022.

Date: 03.06.22



Upcoming Events



Storytelling Event at Mall Anders

Young scientists from Berlin's Clusters of Excellence will present stories from their research. For UniSysCat, Sabine Oldemeyer will give an insight into her work as a biophysicist. Sabine is currently doing a PostDoc in the group of Prof. Joachim Heberle at Freie Universität Berlin. Date: 10.06.22



Lange Nacht der Wissenschaften 2022

The Lange Nacht der Wissenschaften (LNDW) returns after a two-year break! Together with the Institute of Chemistry at the Technische Universität Berlin, UniSysCat will be putting together a colorful program for people of all ages to marvel at!

Date: 02.07.22



Lange Nacht der Wissenschaften in Humboldt Labor

At Meet the Scientist, young researchers give short introductions to their research projects and then answer questions from the audience. Sabine Oldemeyer will be representing UniSysCat and sharing her experience as a biophysicist! Date: 02.07.22



Imprint

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