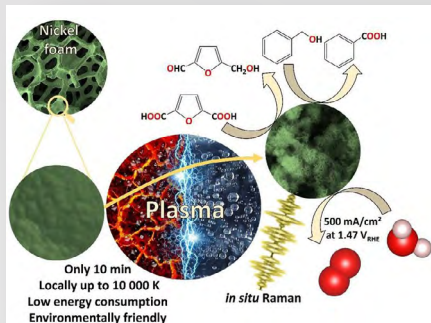


Newsletter

Autumn 2022



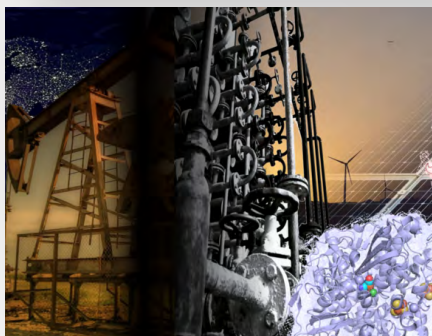
Research Highlights

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



Current Affairs

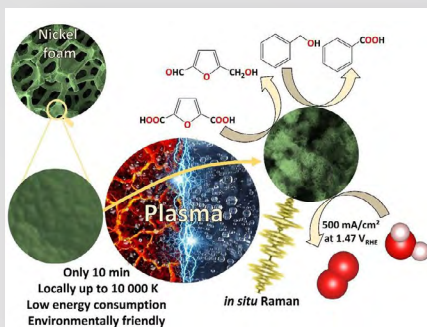
[Click here to view the most recent events, awards and other affairs hosted by UniSysCat.](#)



Upcoming Events

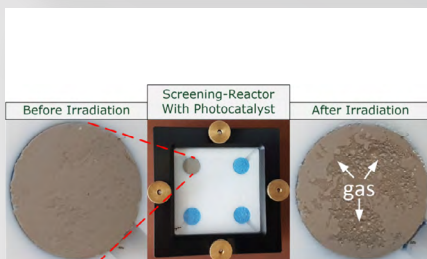
[Click here to take a look at the colloquia and other events coming up.](#)

Research Highlights



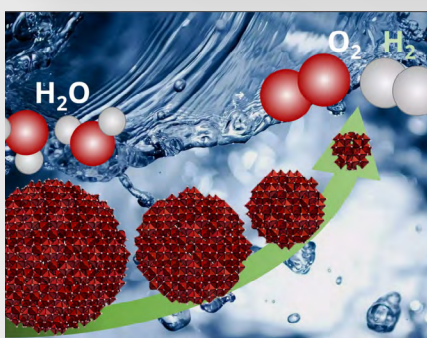
New Superior Electrode Material for the Production of Sustainable Fuels

A team involving the UniSysCat groups of Dr. Zebger, Prof. Drieß and Dr. Menezes used an electrolytic, *in-liquid* plasma approach to modify the surface of a nickel foam electrode to obtain a hierarchically nanostructured electrode with a strongly enhanced surface area.



Screening of Heterogeneous Photocatalysts for Water Splitting

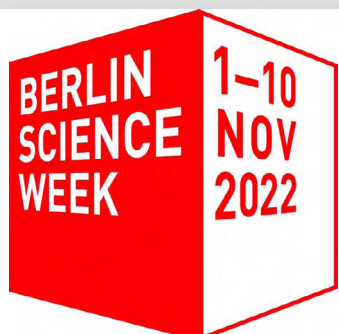
A team of UniSysCat researchers presents a simple method for the screening of the photocatalytic activity of up to four catalysts in parallel – a method that may save a lot of time in the lab.



Size Matters: Tracking the Catalytic Activity of a Catalyst for Hydrogen Production

In a study published in *Nature Energy*, researchers from the group of Prof. Beatriz Roldán Cuenya from FHI Berlin shed light on the size-dependent activity of oxygen-evolving $\text{CoO}_x(\text{OH})_y$ nanoparticles used as catalysts for the oxygen evolution reaction.

Current Affairs



UniSysCat at Berlin Science week 2022

UniSysCat is part of this year's Berlin Science week with three events! On November 9, we'll host a panel discussion on energy security at Urania Berlin. On November 10, you'll have the chance to meet Prof. Heberle in Humboldt Labor and you may join the Science Slam of the Berlin Clusters of Excellence.



Several Open Positions are Available in UniSysCat

In the course of the second funding period of the Cluster of Excellence UniSysCat, a number of scientific positions have been advertised. Please find a list of open positions on our website.



Prof. Robert Bittl Receives ERC Synergy Grant Together with an International Team

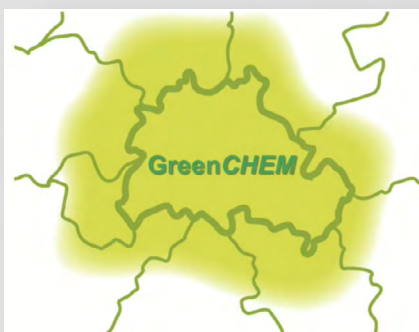
The European Research Council (ERC) grants an international research team involving UniSysCat group leader Robert Bittl almost nine million euros for the study of "Chirality and Spin Selectivity in Electron Transfer Processes".



UniSysCat Group Leader Stefan Hecht Becomes Einstein Professor

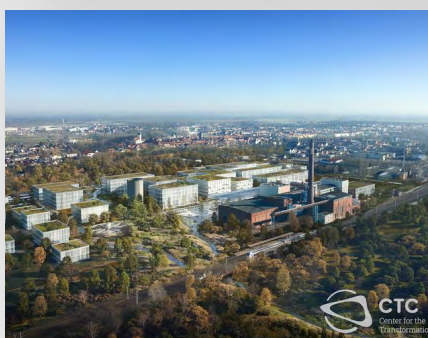
Since 1 October 2022, Prof. Stefan Hecht is an Einstein Professor and thus returns to Berlin's Humboldt-Universität. His Einstein Professorship strengthens Berlin's material sciences: with his team, he researches new materials with improved properties.

Current Affairs



GreenCHEM: Berlin Becomes a Transfer Region for Green Chemistry

The GreenCHEM project will be funded with up to 10 million euros from the BMBF to develop the Berlin region into a hotspot for chemical innovations. UniSysCat will support GreenCHEM as a networking partner.



Center for the Transformation of Chemistry (CTC) Becomes Major Research Center

A big success for green chemistry in Germany: The CTC has been selected from almost 100 ideas in the joint competition "Wissen schafft Perspektiven für die Region!", that aimed to identify two large-scale research centers for the Central German region.



Chemistry Nobel Prize 2022 for Click Chemistry and Bioorthogonal Chemistry

The Nobel Prize in Chemistry 2022 goes to Carolyn R. Bertozzi, Morten Meldal and K. Barry Sharpless for the development of click chemistry and bioorthogonal chemistry. UniSysCat warmly congratulates!



UniSysCat's Episode of "Exzellente erklärt" About Green Chemistry is Online

The 20th episode of the podcast "exzellente erklärt - Spitzenforschung für alle" with Prof. Matthias Drieß, co-spokesperson of UniSysCat, is about "Green chemistry - catalysis processes can be sustainable".

Current Affairs



Clara Immerwahr Award 2023: Call for Applications

The Clara Immerwahr Award is an award for promoting equity and excellence in catalysis research fostering young female scientists. The call for applications is now open. The application deadline is November 13, 2022.



Electrochemistry Conference 2022 in Berlin

Electrochemistry is a successful conference series that takes place every two years. The Electrochemistry 2022 took place from 27 to 30 September at FU Berlin and has been organized by the three UniSysCat PIs Prof. Strasser, Prof. Roldán Cuenya and Prof. Dau.



Four new Episodes of "Exzellent erklärt - Spitzenforschung für alle"

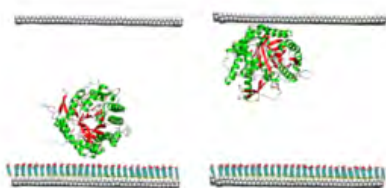
From archeology to active materials and the origin of life - four new episodes of the podcast "exzellent erklärt" were released from July to September. <https://exzellent-erklaert.podigee.io/>



With Big Steps Towards Green Chemistry with Honorary Professor John Warner

On 5 September, Prof. John Warner was ceremoniously appointed Honorary Professor of Green Chemistry at TU Berlin. UniSysCat is delighted about this great step forward in the promotion of green chemistry in Berlin.

Current Affairs



CECAM-Workshop on “Immobilizing Peptides and Proteins”

UniSysCat researcher Prof. Maria Andrea Mroginski has been co-organizing a workshop on “Immobilizing peptides and proteins: Interplay between theoretical and experimental approaches” which took place from 4 to 7 October 2022 in Paris.



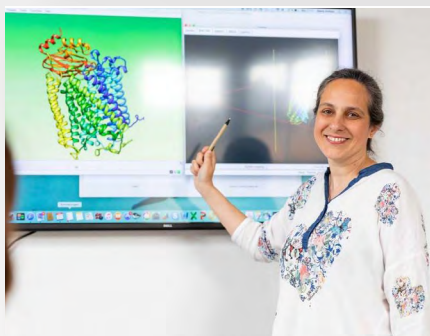
Bart Pieber becomes Professor at the Institute of Science and Technology Austria

UniSysCat member Dr. Bartholomäus Pieber, currently leading a research group at the MPICI, has been appointed an Assistant Professor at ISTA - Institute of Science and Technology Austria. He will join ISTA in June 2023.



Beatriz Roldán Cuenya Receives Röntgen Medal 2022

On 10 September, UniSysCat member Prof. Roldán Cuenya from FHI Berlin was awarded the prestigious Röntgen medal for her groundbreaking fundamental work in understanding catalytic processes using X-ray methods.



Interview with Maria Andrea Mroginski: Grün ist alle Theorie

UniSysCat member Prof. Maria Andrea Mroginski was interviewed for “TU intern” about the simulation of catalysts for the energy transition. She explains the relevance of theory for the catalysis research of the future.

Upcoming Events



UniSysCat colloquium

Prof. Fanxing Li will be speaking on the topic of “Mixed Oxides as Multi-Functional Reaction Media for Chemical Looping Catalysis”. Fanxing Li is an Alcoa Professor in the Chemical and Biomolecular Engineering Department at North Carolina State University.

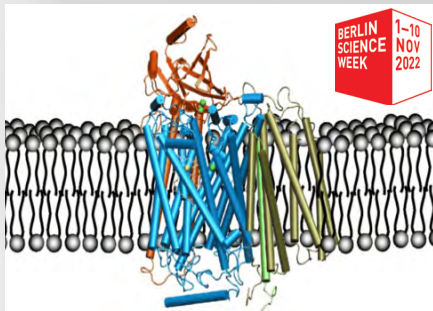
Date: 02.11.22, 5:15 pm, TU Berlin



Panel Discussion - Post-Fossil Fuel Era

At Berlin Science Week, UniSysCat will host a panel discussion on the topic of energy security in the post-fossil era. How will chemistry and catalysis play a role in our understanding of energy and mobility? Speakers will be Prof. Matthias Dri , Dr. Benjamin Steininger and Prof. Anke Weidlich. Tickets via Urania.

Date: 09.11.22, 5:30-7 pm, Urania Berlin



Meet the Scientist with Prof. Joachim Heberle

Proteins are essential building blocks of life. UniSysCat group leader Prof. Joachim Heberle will explain his research on these in his Meet the Scientist talk “Proteins are Nanomachines”. The event is part of Berlin Science Week and will take place in the exhibition “Nach der Natur” in Humboldt Labor.

Date: 10.11.22, 4-6 pm, Humboldt Labor



Science Slam of Berlin’s Excellence Clusters

Clear the stage for science! At our science slam, scientists try everything to entertain their audience, regardless of whether the subject is mathematics, neuroscience or chemistry. The slam is organised by NeuroCure, MATH+, Science of Intelligence, SCRIPTS and UniSysCat. Tickets are available at the evening ticket office.

Date: 10.11.22, 7:30 pm, Roadrunner’s Paradise



Imprint

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