



Newsletter

Summer 2021



Research Highlights

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



Current Affairs

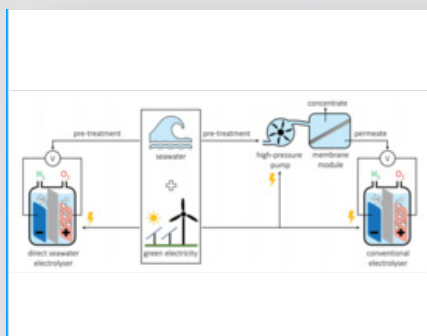
Click here to view the most recent events, awards and other affairs hosted by UniSysCat.



Upcoming Events

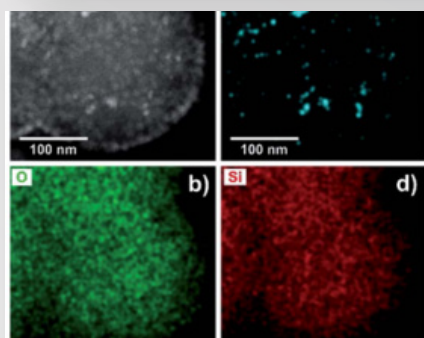
Click here to take a look at the colloquiums and other events coming up.

Research Highlights



Hydrogen production: Direct seawater splitting is disadvantageous

In their quantitative analysis, Hausmann et al. discuss the challenges of the direct usage of non-purified seawater. Further, they compare the energy requirements and costs of seawater purification with those of conventional water splitting.



Rational design of tandem catalysts using a core-shell structure approach

In a multi-disciplinary project, UniSysCat researchers from several groups developed a new approach to synthesize multi-functional catalysts by employing core-shell structures, allowing for a greater understanding of coupled catalytic reactions.



Exploring Structure and Function of Redox Intermediates in [NiFe]-Hydrogenases

In a joint project between many research groups of UniSysCat, the structures and function of redox intermediates in [NiFe]-Hydrogenases were explored utilizing an advanced approach for solvated, lyophilized and crystallized metalloenzymes



Three Top Publications Released by the Ray Research Group

The group of UniSysCat researcher Prof. Kallol Ray recently published three papers in *Angewandte Chemie Int. Ed.*, two of which have been highlighted as Hot Papers.

Current Affairs



Chemistry Nobel Prize 2021 for “Asymmetric Organocatalysis” - UniSysCat congratulates!

The Nobel Prize in Chemistry 2021 goes to Benjamin List and David MacMillan, who independently developed a new group of organic catalysts that are widely used in the chemical industry today.



Second episode of the science podcast “exzellent erklärt” now online!

In the second episode of “exzellent erklärt - Spitzenforschung für alle” Larissa Vassilian talks to Prof. Christian Haass about the research results so far, about the biggest problems in Alzheimer's research and about the questions that are still open.



UniSysCat member Prof. Peter Hegemann receives the 2021 Lasker Basic Medical Research Award

The 2021 Lasker Basic Medical Research Award goes to UniSysCat group leader Peter Hegemann (Humboldt-Universität zu Berlin) together with Dieter Oesterhelt (Max Planck Institute of Biochemistry) and Karl Deisseroth (Stanford University).



UniSysCat is pleased to support the first ever LGBTQ STEM Tisch

LGBTQ STEM Berlin and the Society of Spanish Researchers in Germany (CERFA) are hosting the first BundeSciencia LGBTQ STEM Tisch. The STEM Tisch is a workshop covering “Diverse scientists for diverse research”.

Current Affairs



Prof. Heberle has recently been elected to two new offices in the field of scientific integrity

Prof. Heberle has become a member of the Commission for Investigating Scientific Misconduct of the ÖAWI, the Austrian Agency for Scientific Integrity as well as taking the office as the central ombudsman of the FU Berlin.



Podcast “Exzellente erklärt – Spitzenforschung für alle” now online!

UniSysCat is proud to announce that the first science podcast reflecting the research done within Germany's top research networks, the clusters of excellence, goes on air! On September 1st, 2021, the first episode of the podcast of the clusters of excellence in Germany goes online and can be streamed.



Opening: OIL. BEAUTY and HORROR in the PETROL AGE

UniSysCat member Dr. Benjamin Steininger from the Max Planck Institute for the History of Science curates the exhibition 'Oil. Beauty and Horror in the Petrol Age' which will open on September 4th, 2021 at the Kunstmuseum Wolfsburg.



A Closer look at the lab of Prof. Rappsilber

TU Berlin regularly portrays the work of selected research groups. This time, they introduce the research of the group of UniSysCat member Prof. Juri Rappsilber. Find the full portrait with lots of amazing photos of the Rappsilber Lab on the website of the TU Berlin as part of the series “A closer look at TU Berlin's labs”.



Current Affairs



Congratulations to Beatriz Roldán Cuenya on receiving the AVS Fellow Award

Congratulations to UniSysCat member Prof. Dr. Beatriz Roldán Cuenya on receiving the prestigious 2021 AVS Fellow of the Society Award! The American Vacuum Society (AVS) annually awards scientists in the community who have made sustained and outstanding technical contributions.



Interview with Prof. Franziska Hess: Abwarten und Tee trinken im Katalysator-Labor

Franziska Hess has been interviewed on her research by Christina Camier from TU Berlin. Prof. Hess explains why she is so fascinated about catalysis research and what are the principal questions driving her research.



Juri Rappsilber awarded the EMBO Membership for Pioneering Protein science

UniSysCat member Prof. Dr. Juri Rappsilber, who is the head of the bioanalytics department at TU Berlin, has been elected a new member of the European Molecular Biology Organization (EMBO).



Ariane Nunes Alves starts as a Junior Group Leader in UniSysCat

In July 2021, Alexander von Humboldt fellow Dr. Ariane Nunes Alves has started as a junior group leader at the Technische Universität Berlin. We're happy to welcome her in the UniSysCat team!



Current Affairs



Humboldtforum opened! UniSysCat is proud to be represented in Humboldtlabor

Finally, on July 20, 2021 the Humboldtforum has been inaugurated. In the opening exhibition of Humboldtlabor called "Nach der Natur" or "After Nature", UniSysCat is represented by a wonderful movie that explains how UniSysCat researchers implement green chemistry.



Prize winning: Albert No. 6 - Catalysis

Albert is the annual magazine published by the Einstein Foundation Berlin. This year's magazine focuses on catalysis, highlighting the excellent research of UniSysCat: Albert No. 6 - Catalysis.



Beatriz Roldán Cuenya receives ISE-Elsevier Prize for Experimental Electrochemistry

UniSysCat member Prof. Roldán Cuenya is the 2021 winner of the ISE-Elsevier Prize for Experimental Electrochemistry awarded annually by the International Society of Electrochemistry (ISE) and Elsevier.



Gerhard Ertl Lecture Award 2021 goes to Omar M. Yaghi

The 14th Gerhard Ertl Lecture Award will be granted to Omar M. Yaghi, who is the James and Neeltje Tretter Chair Professor of Chemistry at the University of California, Berkeley, and an elected member of the US National Academy of Sciences.

Current Affairs



Prof. Holger Dobbek: Member of the Berlin-Brandenburg Academy of Sciences and Humanities

Holger Dobbek was officially introduced as a member of the Berlin-Brandenburg Academy of Sciences and Humanities at the festive ceremony of Leibniztag on Saturday, June 05, 2021.



Martin Oestreich Receives the WACKER Silicone Award 2021

Martin Oestreich, UniSysCat member and professor of synthesis and catalysis at the TU Berlin, is the winner of the WACKER Silicone Award 2021. Prof. Oestreich received the award in recognition of his outstanding research in the field of organic and organosilicon chemistry.



Opening of catalysis research platform CatLab

CatLab, the new catalysis research center in Berlin, was inaugurated on June 21, 2021, in the presence of top-ranking politicians, scientists and stakeholders. The research of CatLab is aiming to investigate and develop hydrogen-based energy systems for the future.



Upcoming Events



UniSysCat - Colloquium

Structural Dynamics of complex molecular systems:
Watching an enzyme at work using time-resolved serial
crystallography

By: Prof. Dr. Henrike Müller-Werkmeister

Date: 13.10.21



UniSysCat - Colloquium

Computer simulations to predict ligand binding kinetics
and diffusion rates

By: Dr. Ariane Nunes Alves

Date: 20.10.21



UniSysCat - Colloquium

Professor van der Veen, head of department at the
Helmholtz Center for Materials and Energy in Berlin, as
well as Professor at the University of Illinois at Urbana-
Champaign, will hold a Colloquium on 03.11.21.

By: Prof. Dr. Renske M. van der Veen

Date: 03.11.21



UniSysCat - General Assembly

The UniSysCat General Assembly will take place as an
online event. More details will follow soon.

Date: 24.11.21

Upcoming Events



GERHARD ERTL LECTURE

Gerhard Ertl Lecture & Award

The award ceremony is scheduled to take place on Friday, 10 December 2021, the anniversary of the Nobel Prize award to Gerhard Ertl. Prof. Yaghi will give a lecture with the title "Reticular Chemistry and Precision Reactions in Infinite 2D and 3D".

Date: 10.12.21



13th EC2/BIG-NSE Workshop

As every year once their "Initial Phase" is finished, the new PhD students of EC2/BIG-NSE have the great opportunity to present their PhD work plan in front of the UniSysCat community.

Date: 07.01.22



UniSysCat New Year's Reception

The Cluster of Excellence, UniSysCat, cordially invites its members for a New Year's Reception in celebration. More details regarding location and time will be coming soon.

Date: 07.01.22



The
Clara Immerwahr
Award
2022

Clara Immerwahr Award Ceremony 2022

The Clara Immerwahr Award Ceremony 2022 will be held on the 18th of February, 2022 as a hybrid event. More information coming soon.

Date: 18.02.22



Upcoming Events



**HUMBOLDT
FORUM**
IM BERLINER SCHLOSS

Humboldt Forum - MitWissenschaft

UniSysCat will host a Lecture at the Humboldt Forum as part of the MitWissenschaft Lecture Series on the 28th of February, 2022.

Date: 28.02.22



Imprint

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