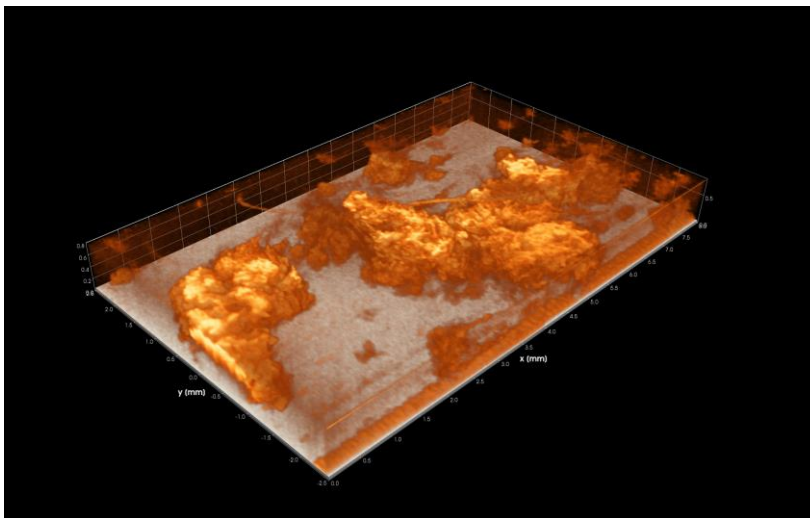


German Sustainability Award for Bio-electrochemical Fuel Cell

Collaboration of Partners from Research and Industry Results in the Development of a Component for an Energy-generating Sewage Treatment Plant



Biofilm on the anode (bottom) of the fuel cell: KIT researchers use optical coherence tomography to visualize the microbial biofilms that generate electric energy. (Graphics: Michael Wagner, KIT)

Sewage treatment plants have been among the biggest municipal energy consumers so far. With a new technology that turns the sewage treatment plant from an electricity consumer into a small power plant, a German team of researchers now wants to reverse the trend. The key component of the plant is a bio-electrochemical fuel cell that can directly produce electric power and hydrogen – without the digestion process used so far. For the innovative concept, in the development of which researchers of Karlsruhe Institute of Technology (KIT) are involved, and that is coordinated by TU Clausthal, the group has now received the German Sustainability Award in the category of research.

[...]

More information about the bio-electrochemical fuel cell BioBZ:
<http://www.bio-bz.de/> (in German only)

[...]

Monika Landgraf
Chief Press Officer,
Head of Corp. Communications

Kaiserstraße 12
76131 Karlsruhe, Germany
Phone: +49 721 608-47414
Fax: +49 721 608-43658
Email: presse@kit.edu

Press contact:

Margarete Lehné
Deputy Press Officer
Phone: +49 721 608-48121
Fax: +49 721 608-45681
Email: Margarete.lehne@kit.edu

More information on the German Sustainability Award:
<https://www.nachhaltigkeitspreis.de/en/>

Being “The Research University in the Helmholtz Association,” KIT creates and imparts knowledge for the society and the environment. It is the objective to make significant contributions to the global challenges in the fields of energy, mobility and information. For this, about 9,300 employees cooperate in a broad range of disciplines in natural sciences, engineering sciences, economics, and the humanities and social sciences. KIT prepares its 26,000 students for responsible tasks in society, industry, and science by offering research-based study programs. Innovation efforts at KIT build a bridge between important scientific findings and their application for the benefit of society, economic prosperity, and the preservation of our natural basis of life.

Since 2010, the KIT has been certified as a family-friendly university.

This press release is available on the internet at
http://www.sek.kit.edu/english/press_office.php.

The photos in the best quality available to us may be downloaded under www.kit.edu or requested by mail to presse@kit.edu or phone +49 721 608-47414. The photos may be used in the context given above exclusively.



German Sustainability Award in the category of research: The winners at the awards ceremony in Düsseldorf. (Photo: Ernst)