

December 2021

LIKAT director Matthias Beller on the list of the most influential researchers

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3th of December 2021

Chemist Matthias Beller in Rostock is one of the world's most influential researchers, according to Clarivate Analytics. This is according to this year's list of "Highly Cited Researchers," which was recently published. Every year, the science information platform Clarivate determines a list of around 6,600 women and men who have exerted significant influence on their fields through their publications.

Prof. Dr. Matthias Beller is scientific director of the Leibniz Institute for Catalysis, LIKAT. His research focus is the development of new environmentally friendly catalysts for a wide range of applications. In recent years, he and his research group have been particularly interested in the production and storage of green hydrogen and thus the reduction of the greenhouse gas CO₂, which is inconceivable without modern catalysts. In his scientific work, Matthias Beller and his colleagues are exploring fundamental molecular mechanisms for this and developing pathways for new usable processes.

In general, catalysis is considered a key to the development of a new, more sustainable chemical industry as well as alternative energy technologies. Catalytic processes are the basis of the vast majority of products that surround us, they are currently undergoing a fundamental shift away from oil, gas and coal as the traditional raw material base towards sustainable feedstocks.

The names on the "Who's Who" list rank in the top 1 percent of citations in the Web of Science™ citation index for their respective field and year of publication. The list is topped by the U.S., with a 39.7 percent share in 2021. In Europe, Great Britain (7.5 percent) and Germany (5 percent) stand out. But all three, USA, UK and Germany, have had to give up shares to researchers from China, who have almost doubled their share since 2018 to 14.2 percent. Australia (5 percent) and the Netherlands (3.1 percent) have also caught up.

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