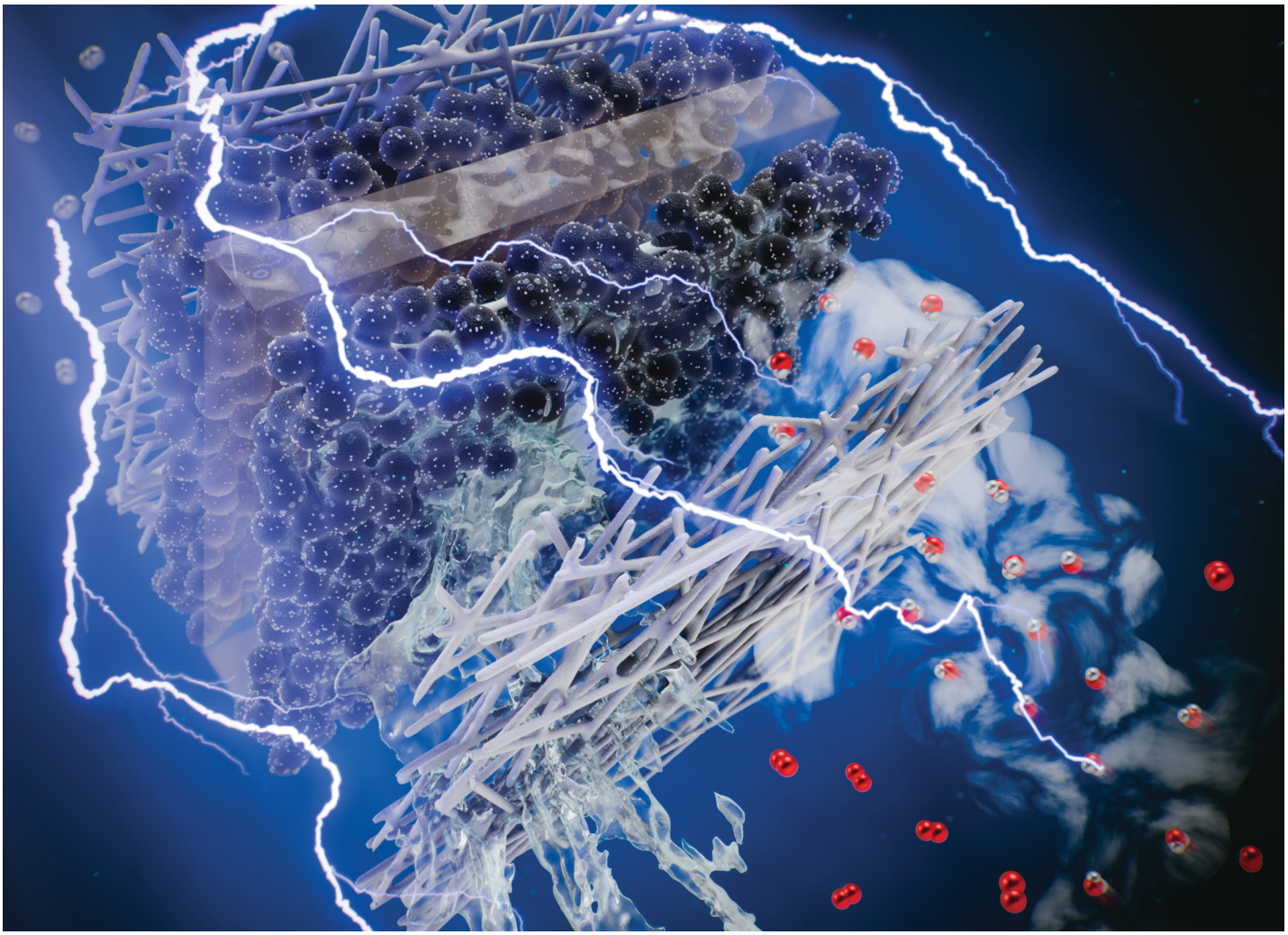

Showcasing research from the group of Prof. Mizuki Tada at Nagoya University, Japan

In situ 3D X-ray imaging of water distribution in each layer of a membrane electrode assembly of a polymer electrolyte fuel cell

H. Matsui and M. Tada's group is working on the *in situ* visualization of functional materials at work by hard X-ray spectroimaging. This work investigates the 3D imaging of water distribution in each stacking layer of gas diffusion layers and membrane electrode assembly of a polymer electrolyte fuel cell. For the first time, the statistical analysis of the 3D image data sets elucidated physical–chemical trends, which supposed the interference of the electrochemical water production and drainage properties.

As featured in:

See Hirosuke Matsui, Mizuki Tada *et al.*, *Phys. Chem. Chem. Phys.*, 2024, **26**, 15115.

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