

Environmental Science: Atmospheres

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Fundamental questions
Elemental answers

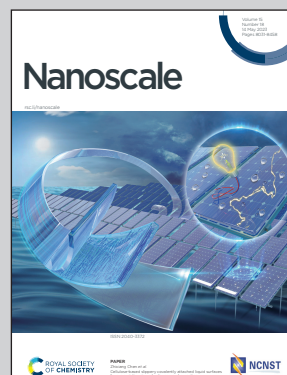


Showcasing the research from Prof. Tanaka's group at Research Center for Neuromorphic AI Hardware, Kyushu Institute of Technology, Japan.

Influence of junction resistance on spatiotemporal dynamics and reservoir computing performance arising from an SWNT/POM 3D network formed *via* a scaffold template technique

A three-dimensional network of SWNT/POM is successfully fabricated through the scaffold template technique to determine the correlation of network topology with the reservoir computing waveform generation benchmark task. The nonlinearity, higher dimensionality, and memory capacity, which are critical factors for reservoir computing devices, are improved due to additional spatial dimensions. The complex network topology in 3D devices opens up the possibility of superior nonlinear spatiotemporal dynamics and memory.

As featured in:



See Saman Azhari, Hirofumi Tanaka *et al.*, *Nanoscale*, 2023, 15, 8169.