

RSC Applied Interfaces

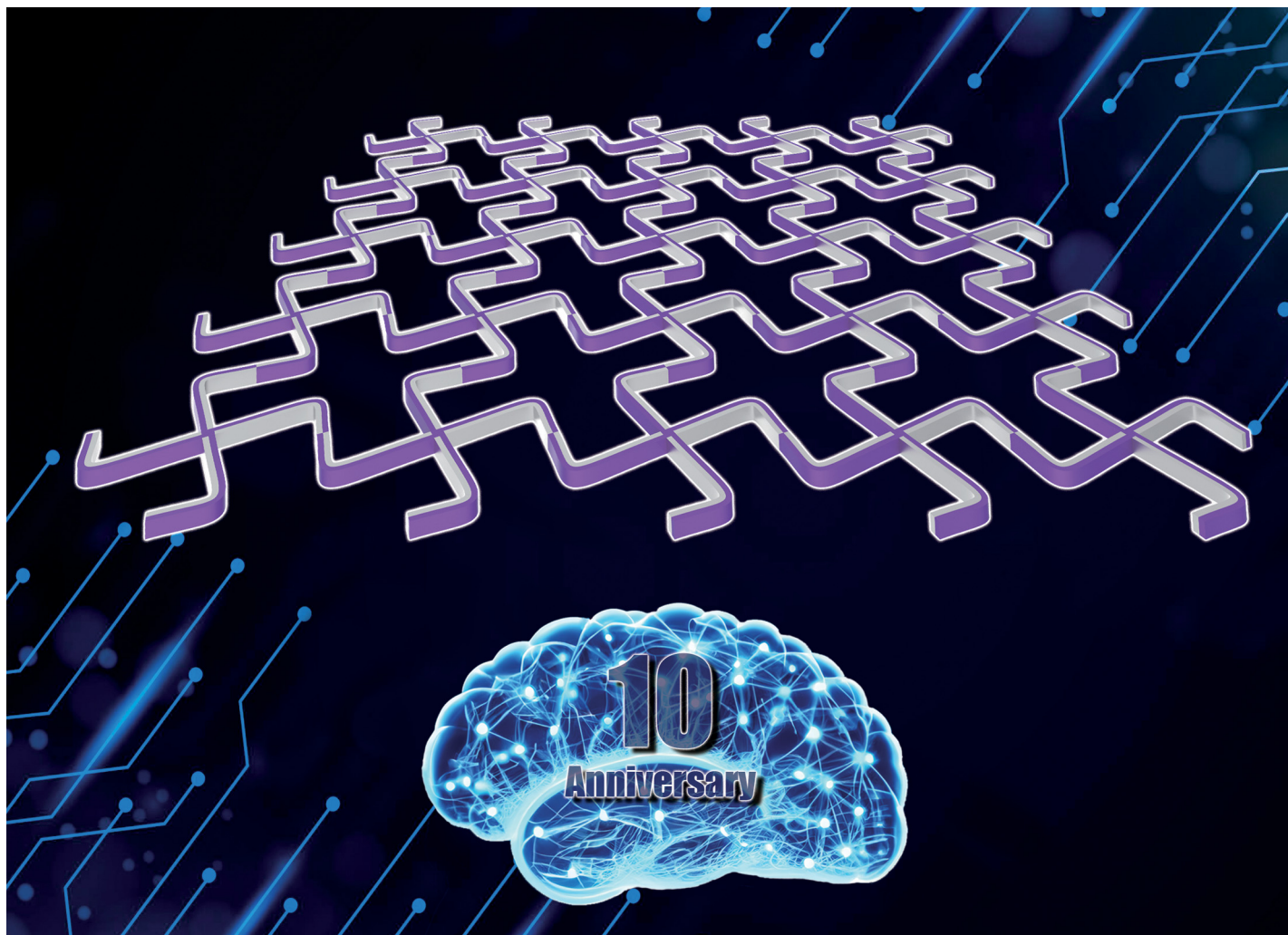
GOLD
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**Interfacial and surface research
with an applied focus**

Interdisciplinary and open access

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**Fundamental questions
Elemental answers**



Showcasing research from Professor Sang Min Park's laboratory at the School of Mechanical Engineering, Pusan National University, Busan, South Korea.

Inverse design of Bézier curve-based mechanical metamaterials with programmable negative thermal expansion and negative Poisson's ratio *via* a data augmented deep autoencoder

A novel deep learning-based inverse design framework with data augmentation for chiral mechanical metamaterials with Bézier curve-shaped bi-material rib is introduced to realize a wide range of negative thermal expansion and negative Poisson's ratio.

Brain image by Vector_Leart *via* Shutterstock.

As featured in:



See Da Seul Shin, Sang Min Park *et al.*, *Mater. Horiz.*, 2024, 11, 2615.