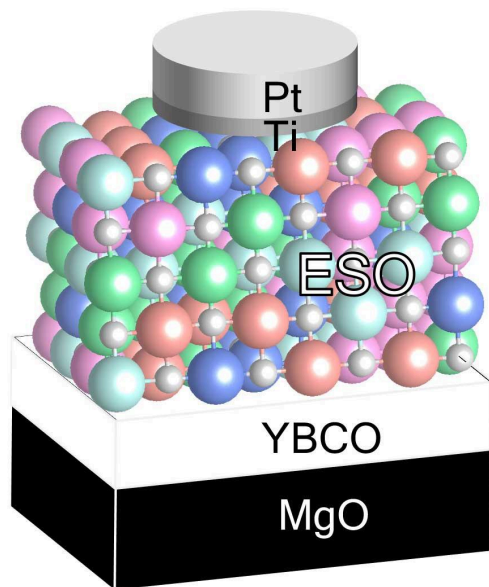


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## Caption: AI chips could get a sense of time



ESO.jpg

The entropy-stabilized oxide is sandwiched between the superconductor YBCO, on which it was grown, and a titanium and platinum electrode. The many colors represent the different components of the entropy-stabilized oxide. By tweaking the ratios of the components, the team could create memristors that relaxed at different rates after exposure to an electrical current, mimicking the way that neurons sense time. Credit: Sieun Chae and Sangmin Yoo, University of Michigan.

Alt: A set of pastel balls in red, green, blue, seafoam, and pink sits between a disc-shaped electrode and the surface below, labeled YBCO. There doesn't appear to be a particular order to the

colors of the balls, but they are similar in size. On the front face of the box-shaped array, the colorful balls link up to much smaller gray balls in a grid, representing the crystal structure.