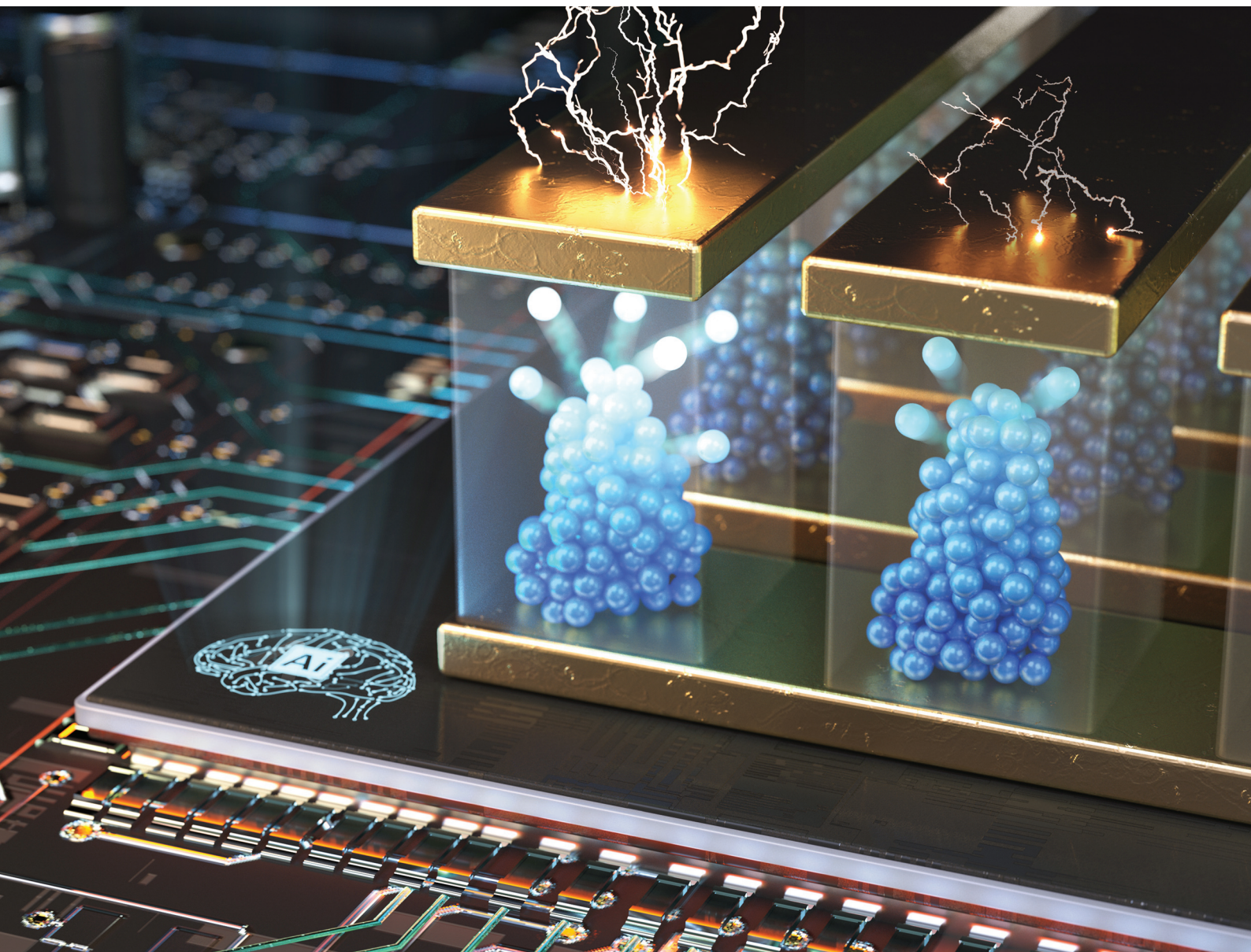


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**PAPER**

Cheol Seong Hwang, Jung-Hae Choi *et al.*  
Study of a charge transition-driven resistive switching  
mechanism in  $\text{TiO}_2$ -based random access memory *via*  
density functional theory