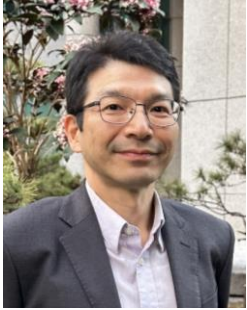


# Novel Materials and Devices for Neuromorphic Applications



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**KEYWORDS:** Analog-Based Synapse of Ferroelectric HfO<sub>2</sub>;  
Transistors for Neuromorphic Computing



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**KEYWORDS:** Neuromorphic computing; Molecular device;  
Surface science



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**KEYWORDS:** Non-volatile floating-gate photomemory;  
Organic–inorganic hybrid perovskites; Block copolymer

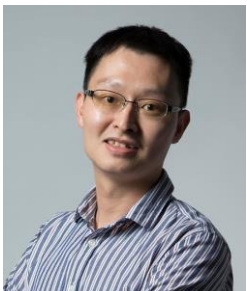


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**KEYWORDS:** Neuromorphic device; Reservoir computing;  
Solid state ionics; Spin wave interference



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**KEYWORDS:** 2D electronics; 2D neuromorphic electronics;  
Thin-film transistors



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**KEYWORDS:** Antiambipolar transistors; Organic heterojunction;  
Two-dimensional materials; Multivalued logic-in-memory