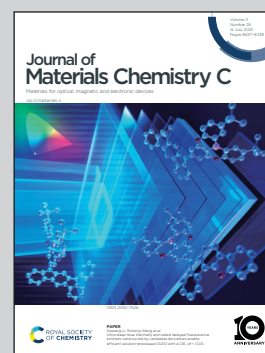


Showcasing research from Xi'an Technological University, Shenzhen Technology University and Key Laboratory of Low-Light-Level Night Vision Technology, China.

A high-performance broadband double-junction photodetector based on silicon nanowire arrays wrapped by silver nanoparticles for low-light imaging

An NN⁺/MS double-junction nanowire silicon-based photodetector was fabricated by an economic chemical etching method, which exhibits excellent high-sensitivity, ultralow dark current, and broadband detection performances. This strategy could unleash the potential for high-performance photodetectors in night vision imaging applications.

As featured in:



See Haifeng Liang *et al.*,
J. Mater. Chem. C, 2023, **11**, 8784.