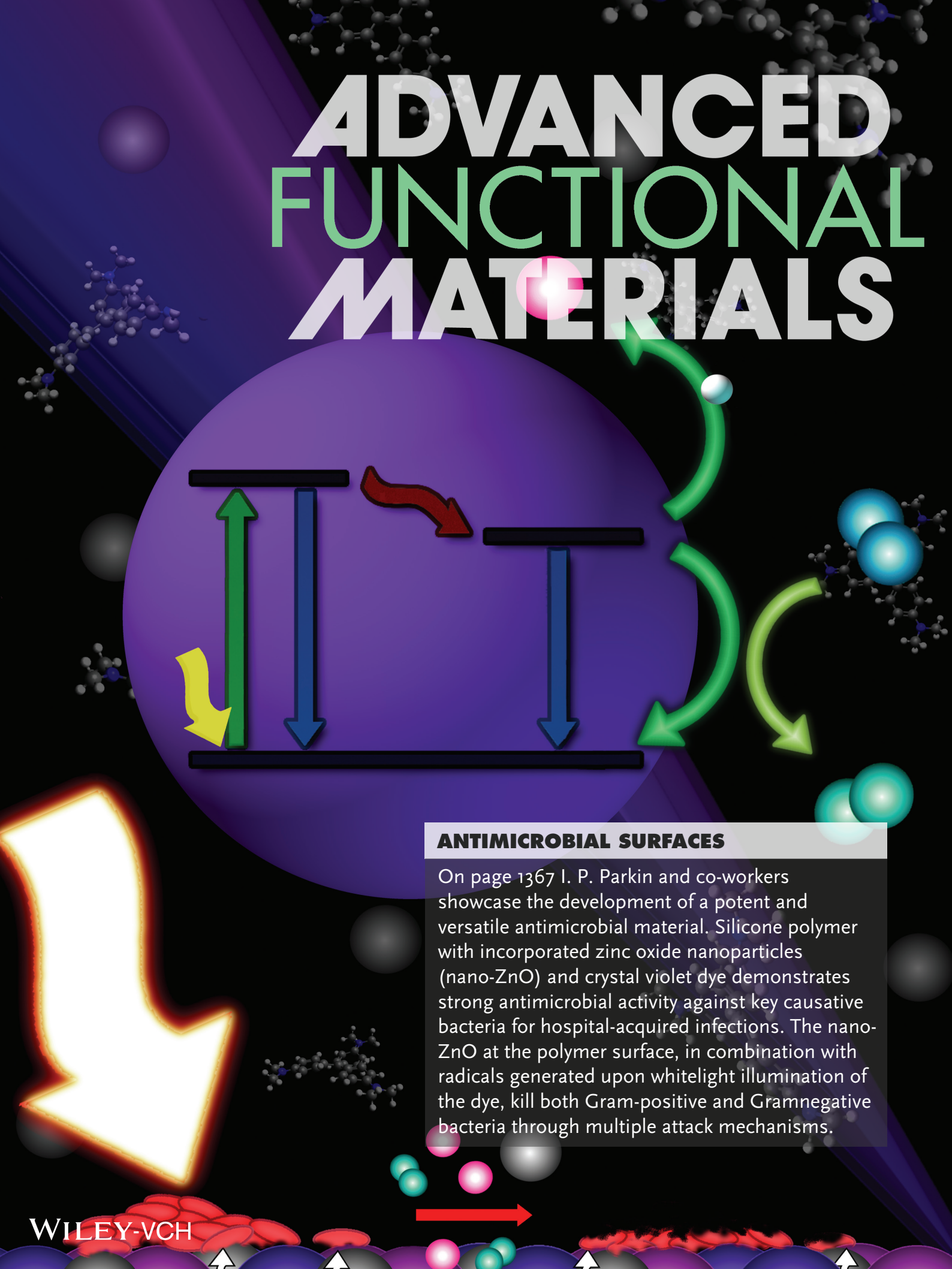
ADVANCED FUNCTIONAL MATERIALS



ANTIMICROBIAL SURFACES

On page 1367 I. P. Parkin and co-workers showcase the development of a potent and versatile antimicrobial material. Silicone polymer with incorporated zinc oxide nanoparticles (nano-ZnO) and crystal violet dye demonstrates strong antimicrobial activity against key causative bacteria for hospital-acquired infections. The nano-ZnO at the polymer surface, in combination with radicals generated upon whitelight illumination of the dye, kill both Gram-positive and Gramnegative bacteria through multiple attack mechanisms.

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