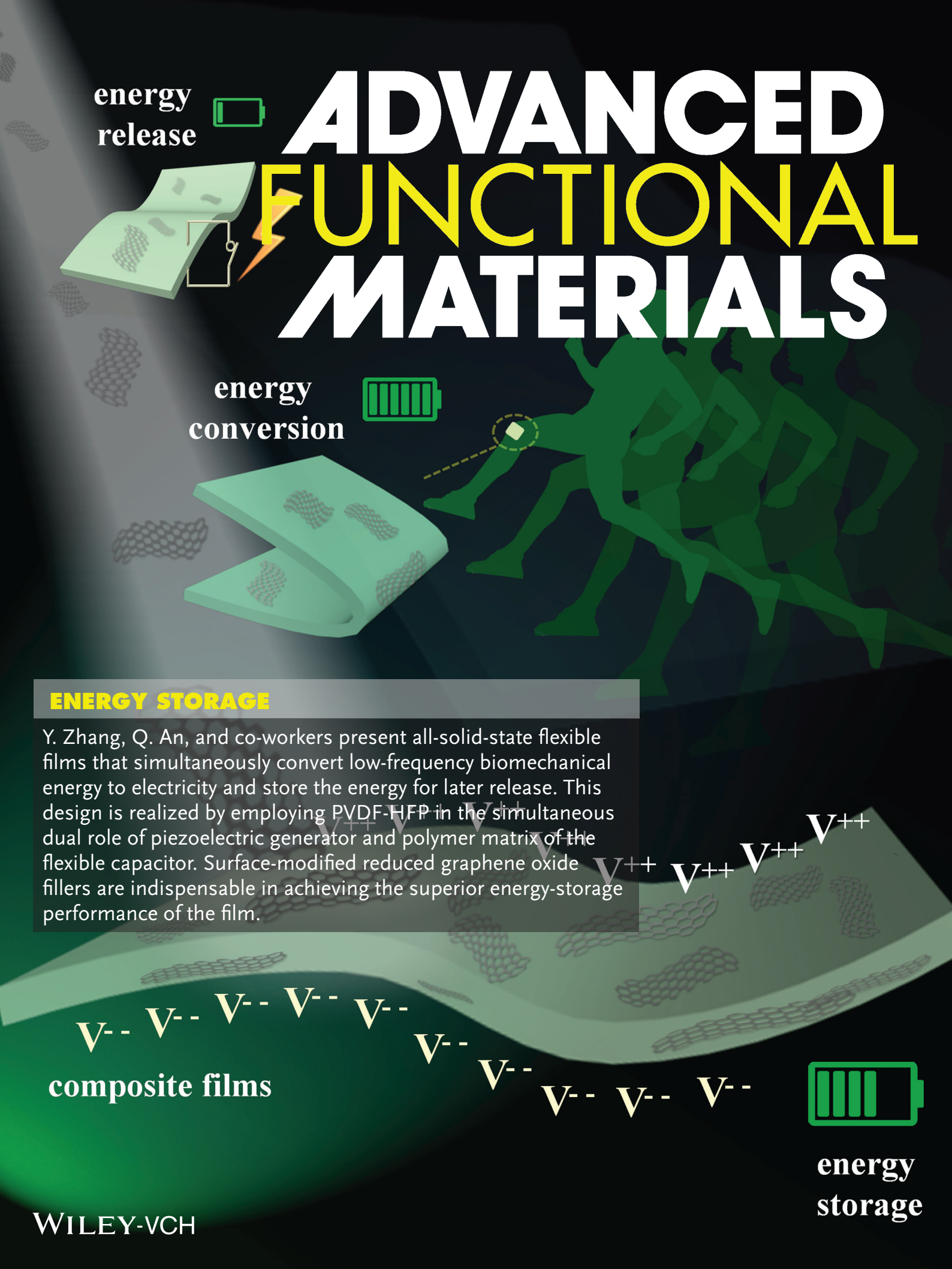
energy release
ADVANCED FUNCTIONAL MATERIALS
energy conversion
ENERGY STORAGE
Y. Zhang, Q. An, and co-workers present all-solid-state flexible films that simultaneously convert low-frequency biomechanical energy to electricity and store the energy for later release. This design is realized by employing PVDF-HFP in the simultaneous dual role of piezoelectric generator and polymer matrix of the flexible capacitor. Surface-modified reduced graphene oxide fillers are indispensable in achieving the superior energy-storage performance of the film.
composite films
energy storage
WILEY-VCH