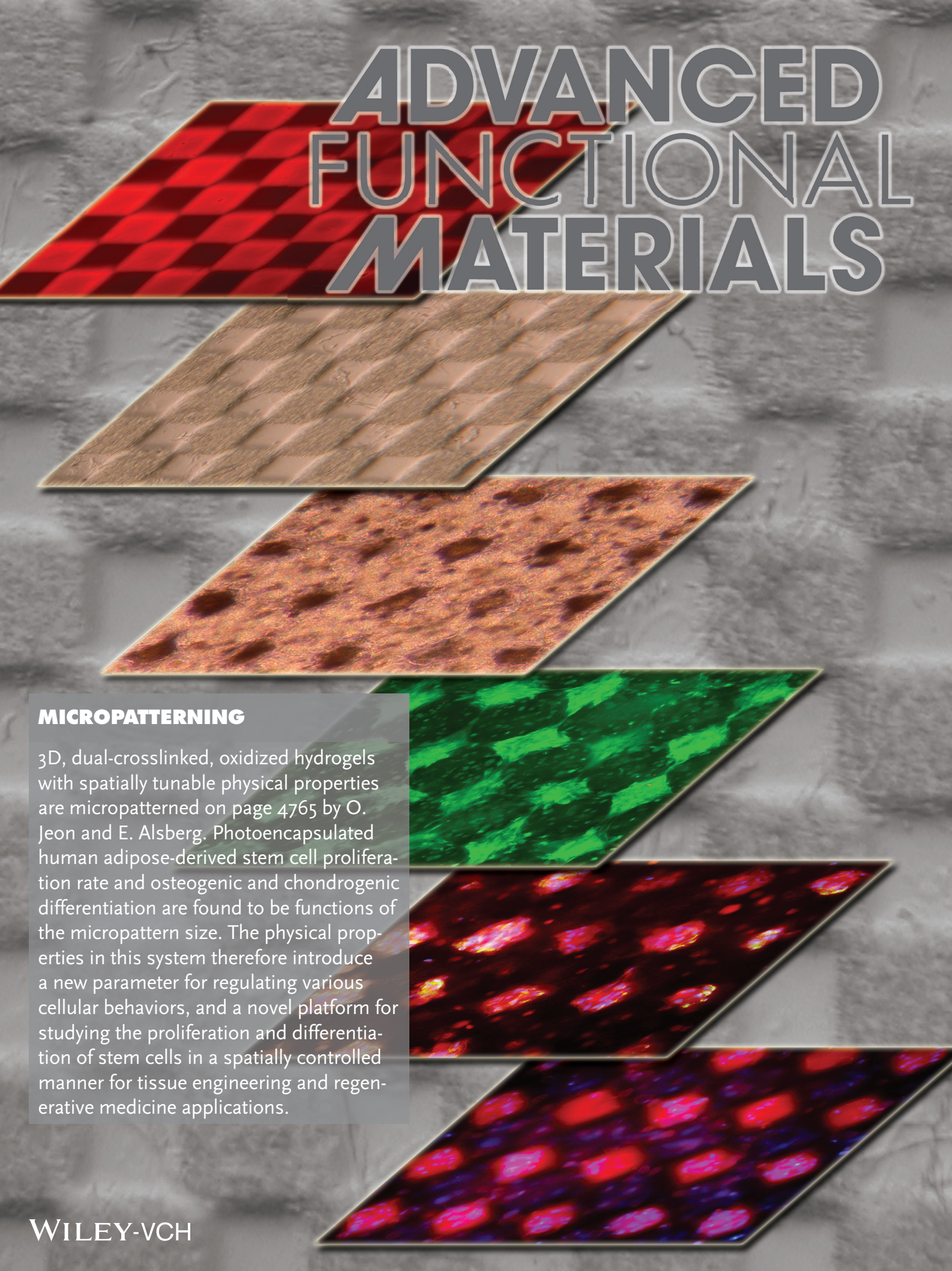


# ADVANCED FUNCTIONAL MATERIALS



## MICROPATTERNING

3D, dual-crosslinked, oxidized hydrogels with spatially tunable physical properties are micropatterned on page 4765 by O. Jeon and E. Alsberg. Photoencapsulated human adipose-derived stem cell proliferation rate and osteogenic and chondrogenic differentiation are found to be functions of the micropattern size. The physical properties in this system therefore introduce a new parameter for regulating various cellular behaviors, and a novel platform for studying the proliferation and differentiation of stem cells in a spatially controlled manner for tissue engineering and regenerative medicine applications.