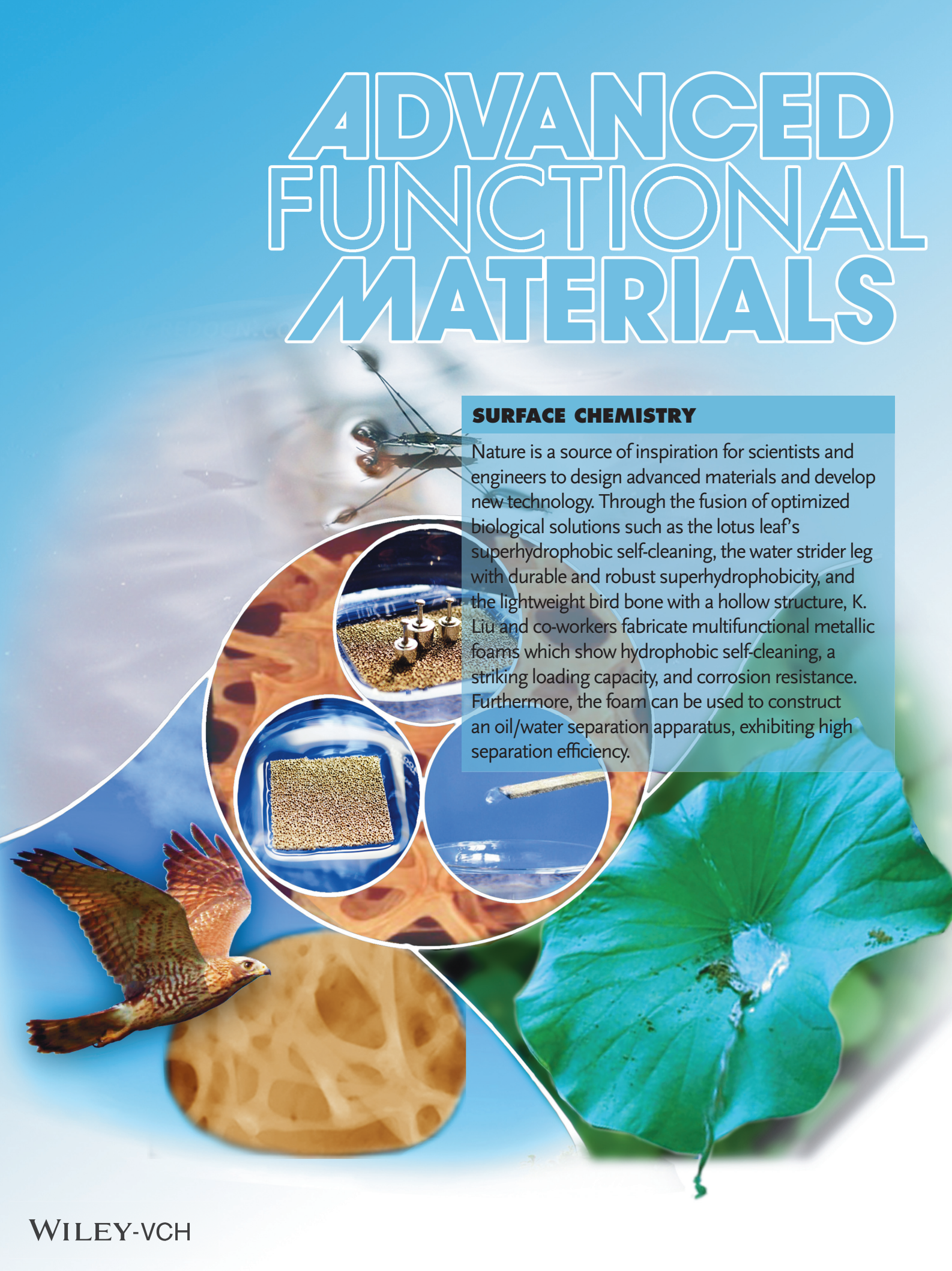
ADVANCED FUNCTIONAL MATERIALS



SURFACE CHEMISTRY

Nature is a source of inspiration for scientists and engineers to design advanced materials and develop new technology. Through the fusion of optimized biological solutions such as the lotus leaf's superhydrophobic self-cleaning, the water strider leg with durable and robust superhydrophobicity, and the lightweight bird bone with a hollow structure, K. Liu and co-workers fabricate multifunctional metallic foams which show hydrophobic self-cleaning, a striking loading capacity, and corrosion resistance. Furthermore, the foam can be used to construct an oil/water separation apparatus, exhibiting high separation efficiency.

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