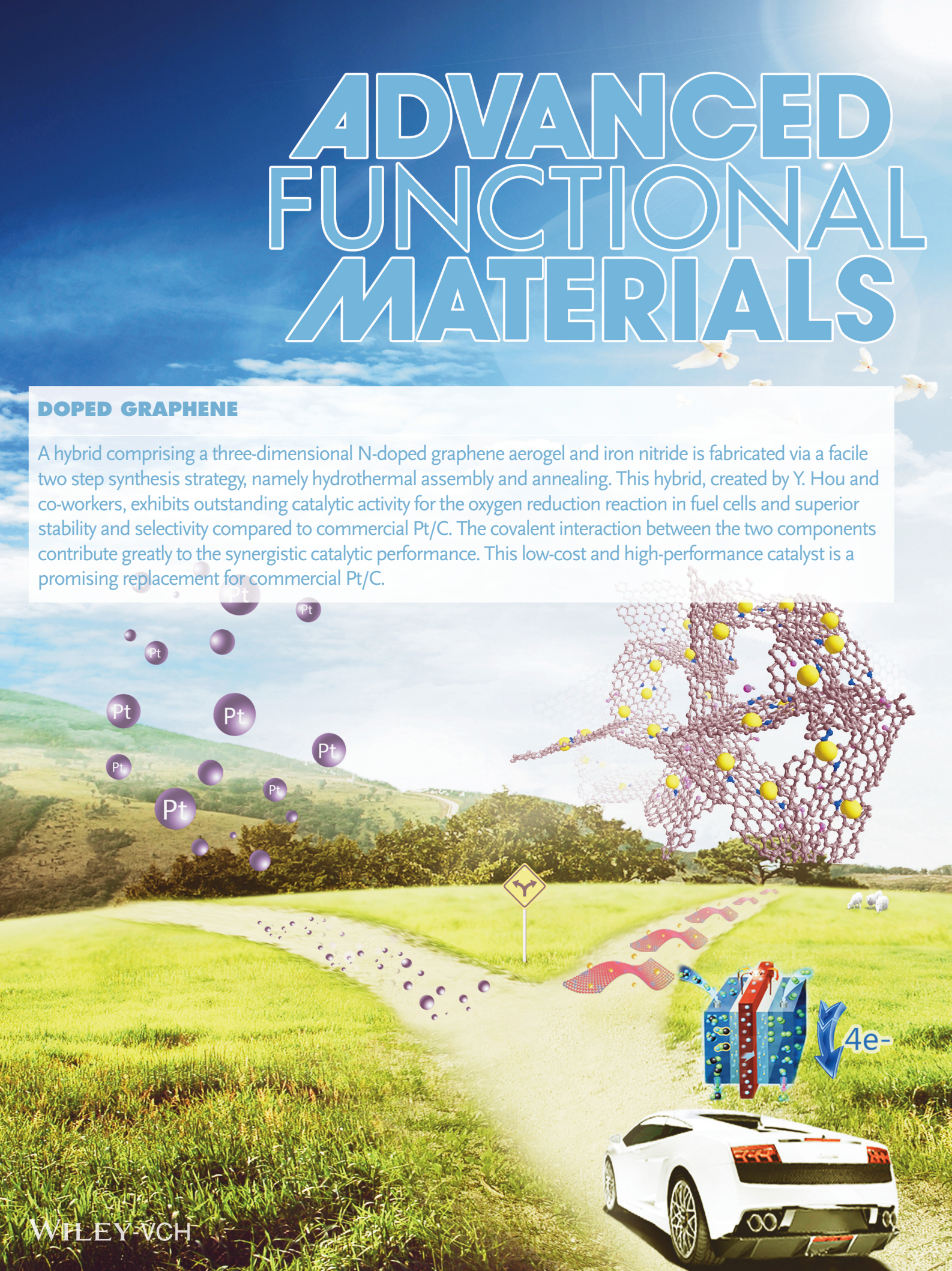
ADVANCED FUNCTIONAL MATERIALS

DOPED GRAPHENE

A hybrid comprising a three-dimensional N-doped graphene aerogel and iron nitride is fabricated via a facile two step synthesis strategy, namely hydrothermal assembly and annealing. This hybrid, created by Y. Hou and co-workers, exhibits outstanding catalytic activity for the oxygen reduction reaction in fuel cells and superior stability and selectivity compared to commercial Pt/C. The covalent interaction between the two components contribute greatly to the synergistic catalytic performance. This low-cost and high-performance catalyst is a promising replacement for commercial Pt/C.



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