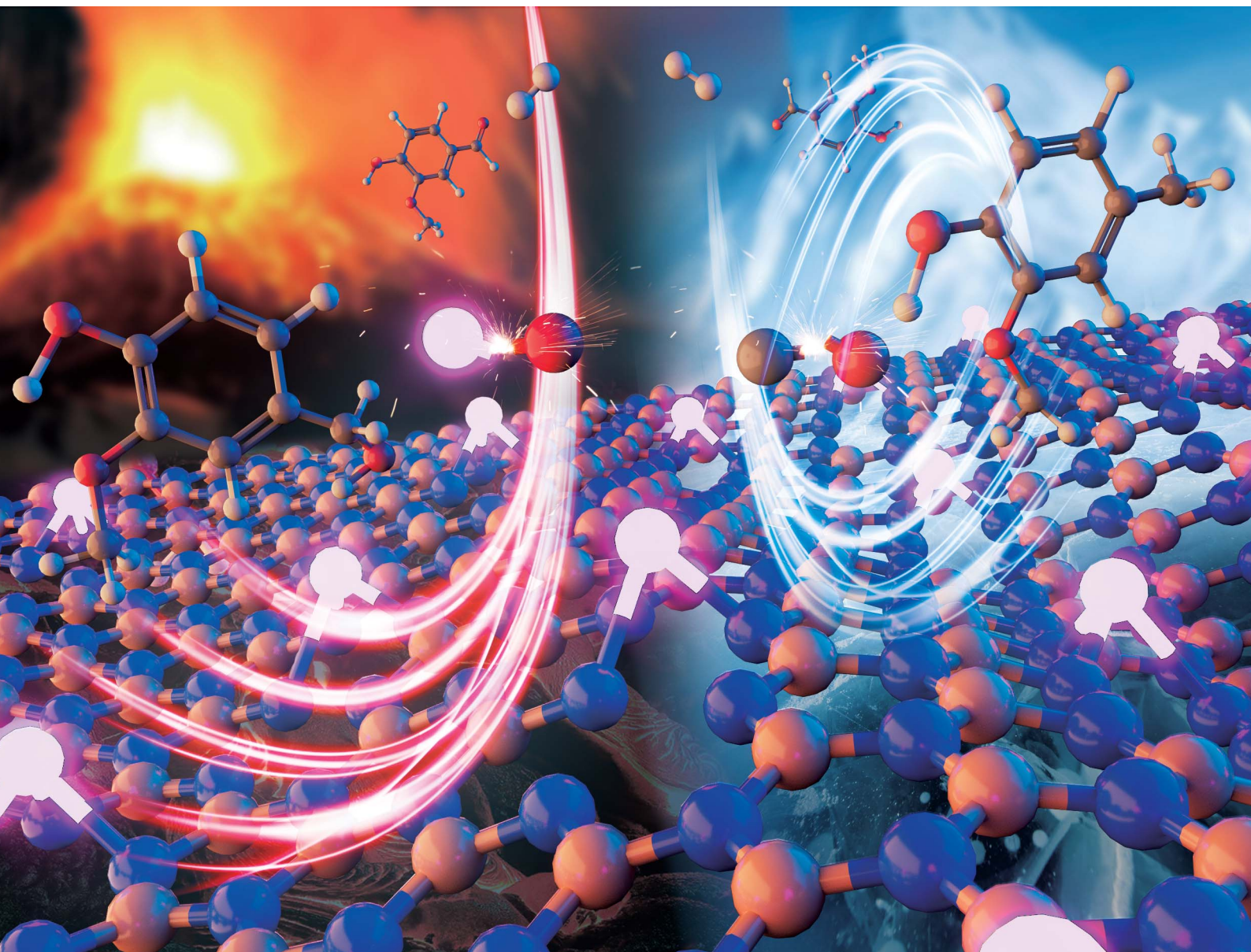


Journal of Materials Chemistry A

Materials for energy and sustainability

rsc.li/materials-a



ISSN 2050-7488

PAPER

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Improving the selectivity of hydrogenation and hydrodeoxygenation for vanillin by using vacancy-coupled Ru-N₃ single atoms immobilized on defective boron nitride