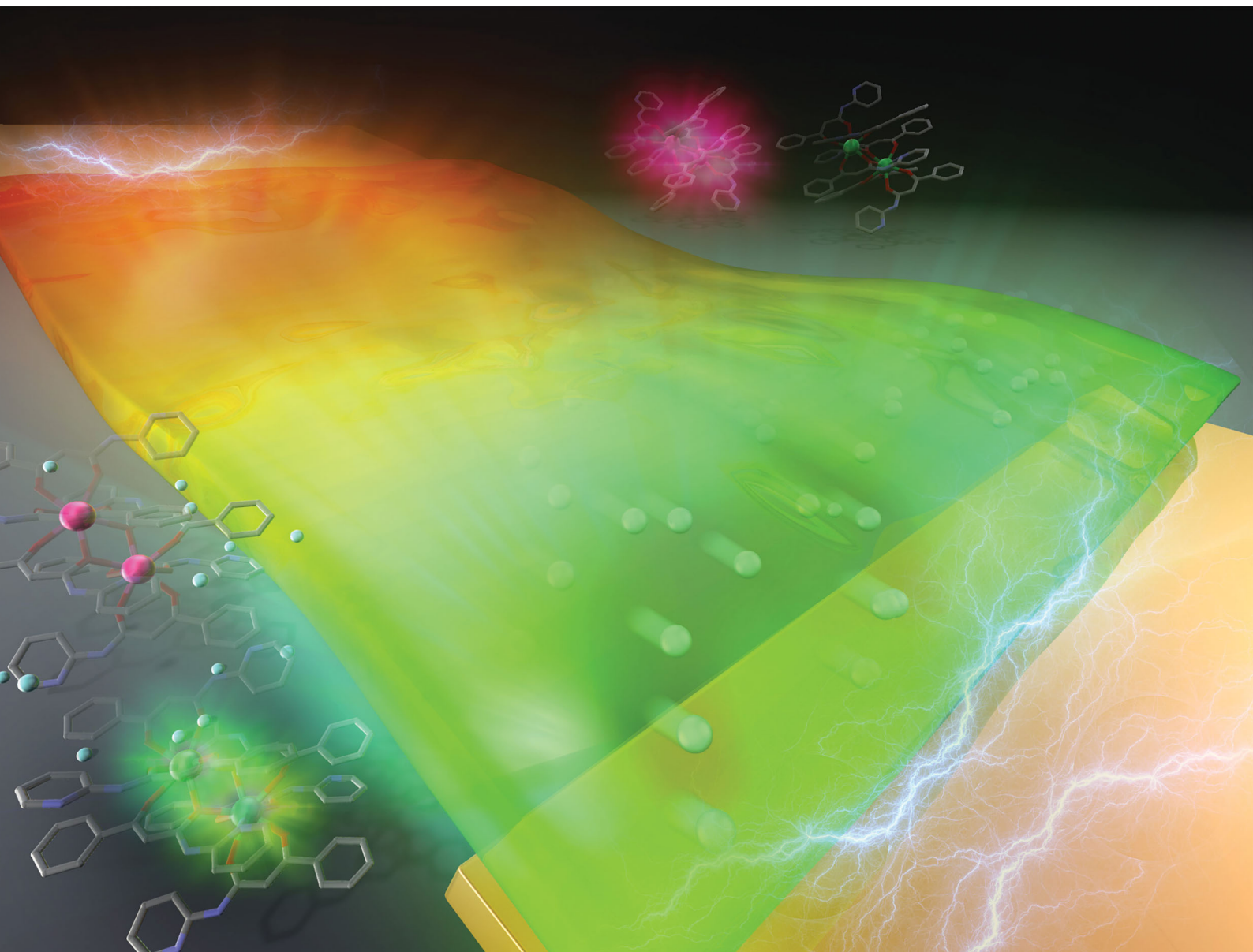


# Materials Advances

rsc.li/materials-advances



ISSN 2633-5409

**COMMUNICATION**

Hajime Kamebuchi, Makoto Tadokoro *et al.*  
Development of tuneable green-to-red emitting transparent  
film based on Nafion with Tb<sup>III</sup>/Eu<sup>III</sup>  $\beta$ -diketonate complexes  
modulated by pH and proton flow