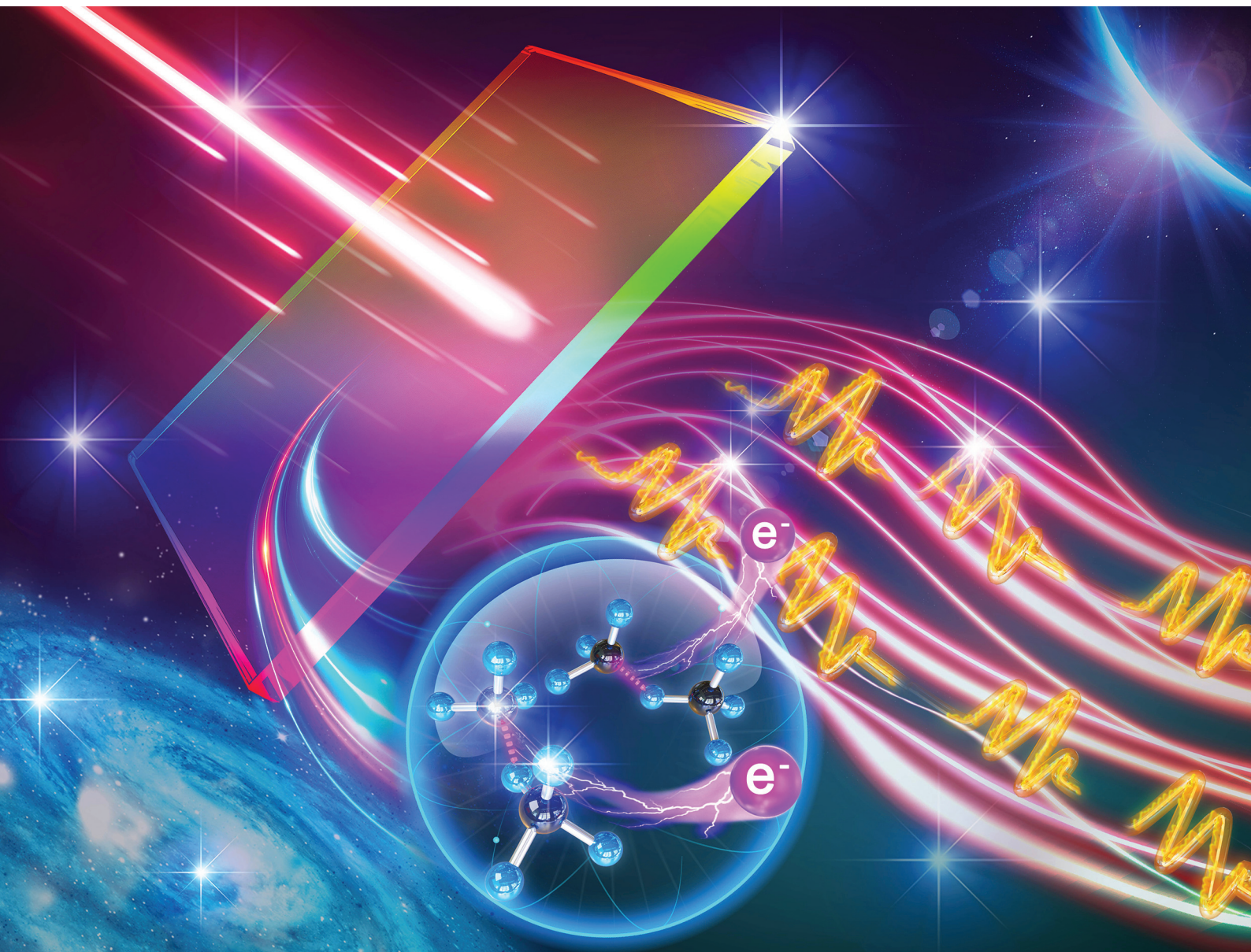


# Nanoscale

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**PAPER**

Jian Cheng, Mingjun Chen *et al.*  
Unveiling sub-bandgap energy-level structures on machined  
optical surfaces based on weak photo-luminescence



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