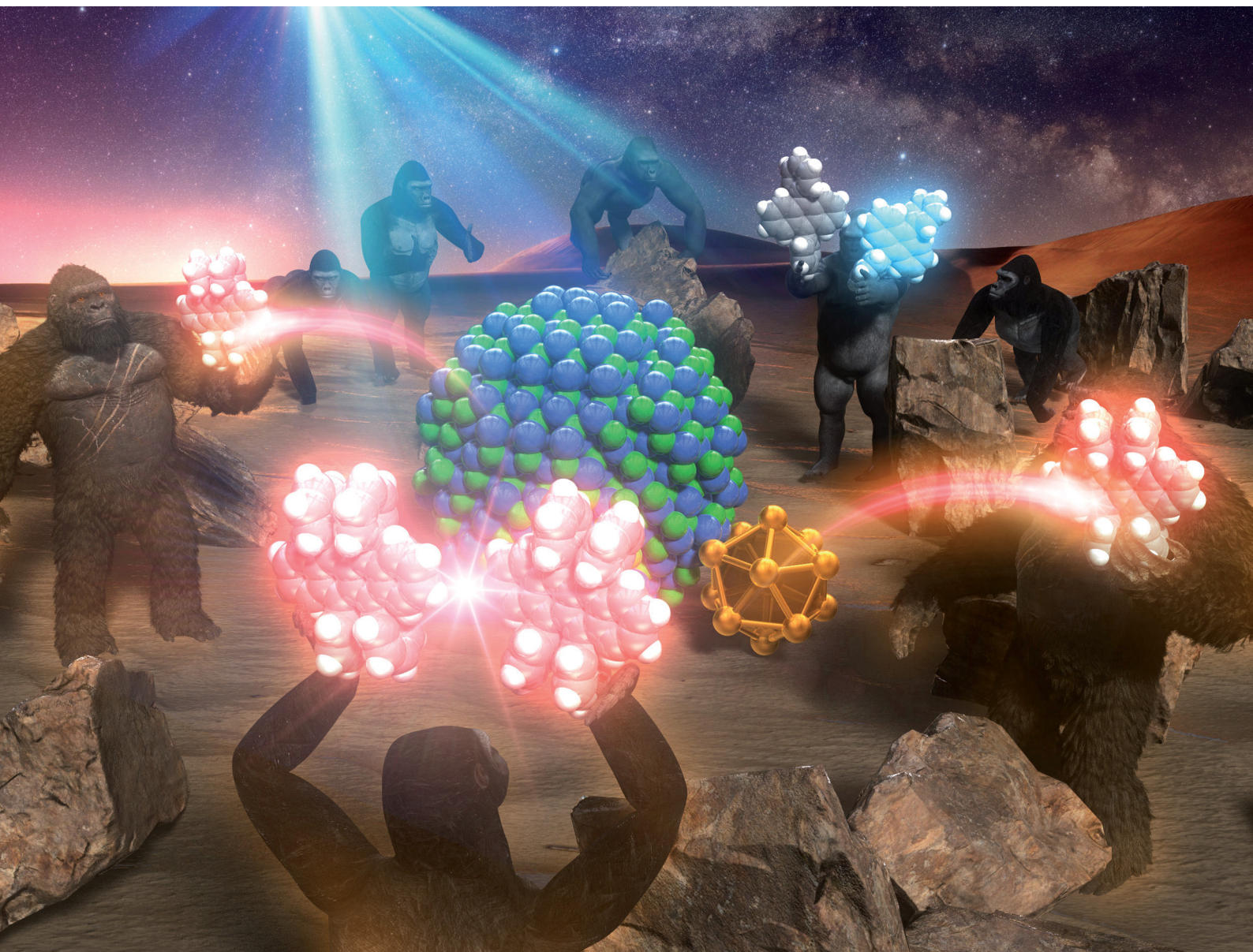


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**REVIEW ARTICLE**

Yoshiki Niihori, Yuichi Negishi *et al.*  
Triplet-triplet annihilation-based photon upconversion using  
nanoparticles and nanoclusters