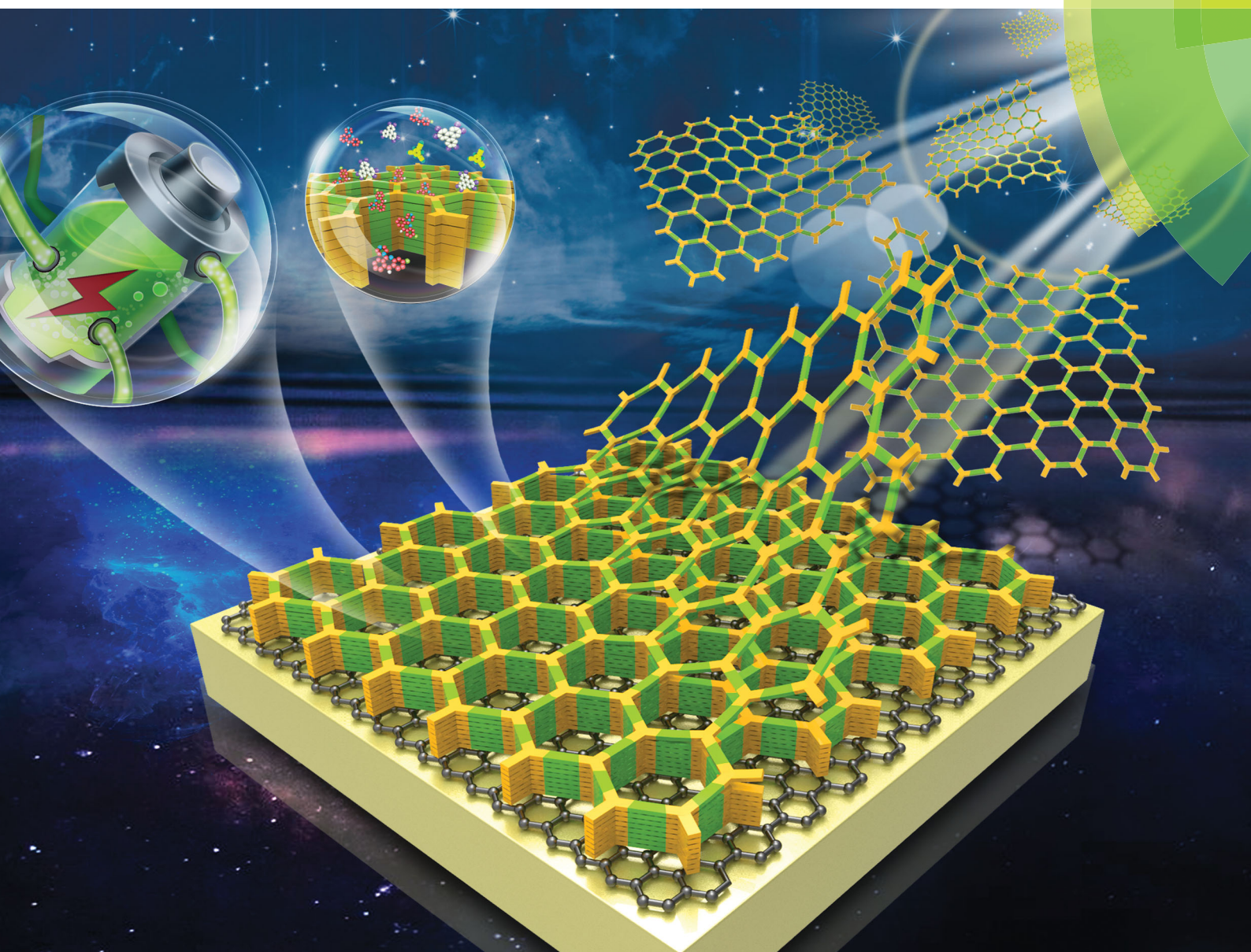


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## REVIEW ARTICLE

Guangming Zeng, Rong Xiao, Zhiyong Tang *et al.*  
Recent progress in covalent organic framework thin films:  
fabrications, applications and perspectives