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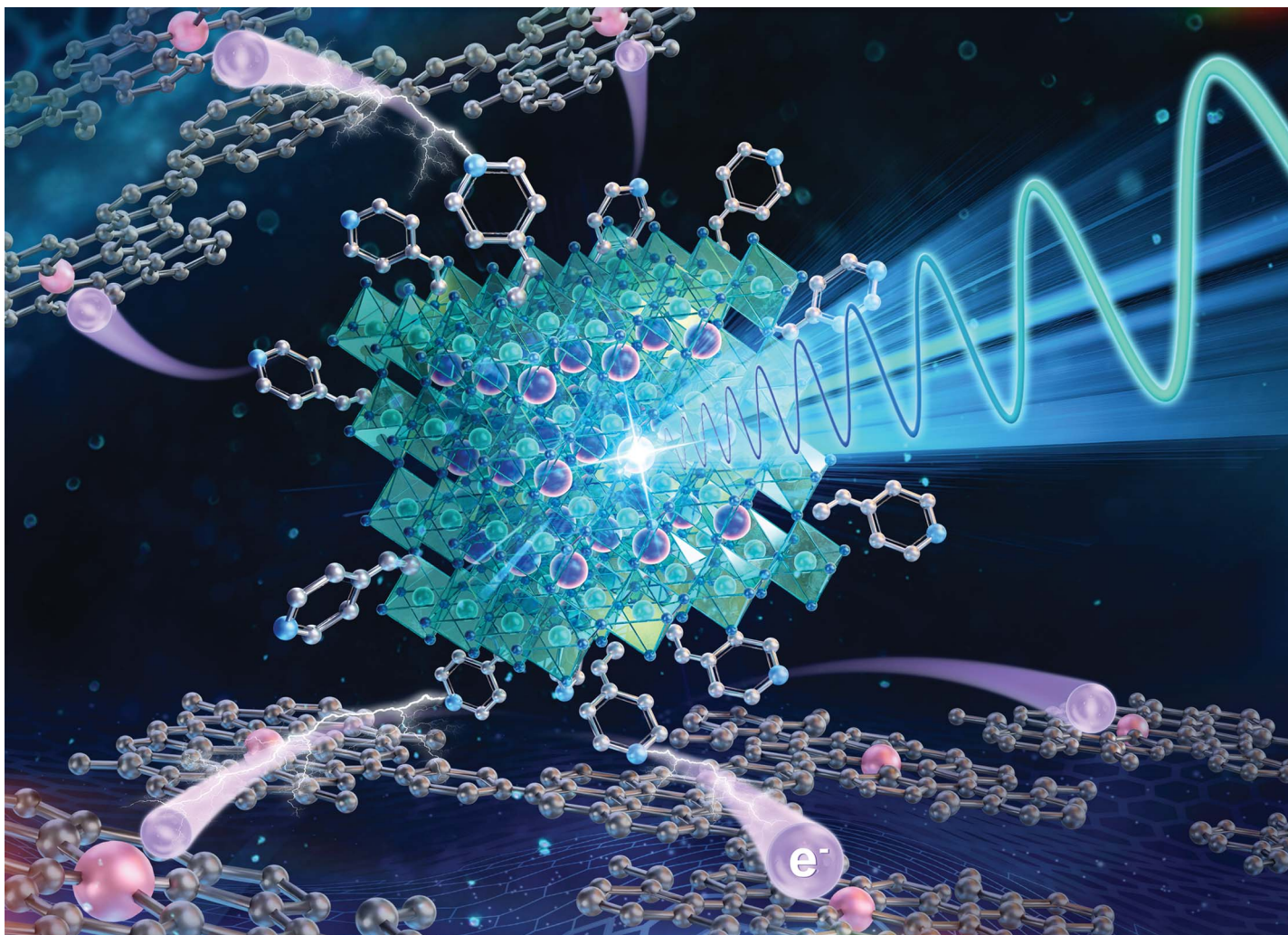
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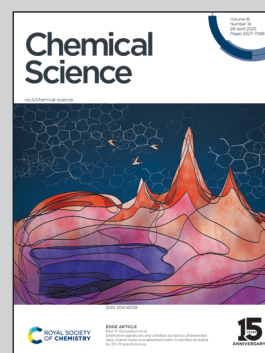
Showcasing research from Professor Chi Zhang's laboratory,
School of Chemical Science and Engineering, Tongji University,
Shanghai, China.

Greatly enhanced ultrafast optical absorption nonlinearities of
pyridyl perovskite nanocrystals axially modified by star-shaped
porphyrins

This image highlights a pyridyl CsPbBr_3 perovskite nanocrystal with
a regular lattice structure in the center of dark-blue background.
Its terminal light-blue N atom forms a unique axial coordination
interaction with the light-red Zn atom of the star-shaped porphyrin
located in the upper left and lower parts of the image. The two
communicate with each other in the perovskite-porphyrin binary
system through purple comet-shaped ribbons, optimizing the
nonlinear optical absorption properties of the hybrid material. The
ultrashort laser irradiates the sample, vividly demonstrating the
light-matter interaction between laser and nanocrystal.

Image reproduced by Chi Zhang *et al.* from *Chem. Sci.*, 2025, **16**, 6720.

As featured in:



See Chi Zhang *et al.*,
Chem. Sci., 2025, **16**, 6720.