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Subcellular fluorescence imaging for BHK cell and multiple sensing based on carbon dots with two strong emission peaks

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Graphical Abstract

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A novel kind of nitrogen-doped carbon dots (N-CDs) was developed with unprecedented properties, which can emit two strong emission peaks at about 450 nm and 540 nm under a single-wavelength ultraviolet-light excitation, label nucleus of BHK cells, and detect Fe³⁺ ion and ascorbic acid as “on-off-on” probe.

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