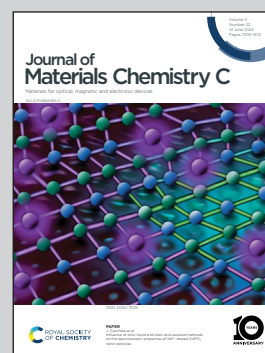


**Showcasing research from the group of Prof. Haitao Sun at East China Normal University, China.**

Origins of near-infrared-II emission tail and fluorescence enhancement of albumin-chaperoned cyanine dyes from a multiscale computational study

The quantum nature of the typically ignored but important NIR-II emission tail of cyanine dyes and the fluorescence enhancement mechanism for cyanine-protein assemblies have been revealed from a multiscale computational study, thus providing a comprehensive understanding of the nature of NIR-II tail emission for conventional NIR-I dyes and further providing a general rule to explore conventional NIR-I dyes with bright NIR-II tail emission for NIR-II imaging.

**As featured in:**



See Haitao Sun *et al.*,  
*J. Mater. Chem. C*, 2023, **11**, 7243.