

# Environmental Science journals

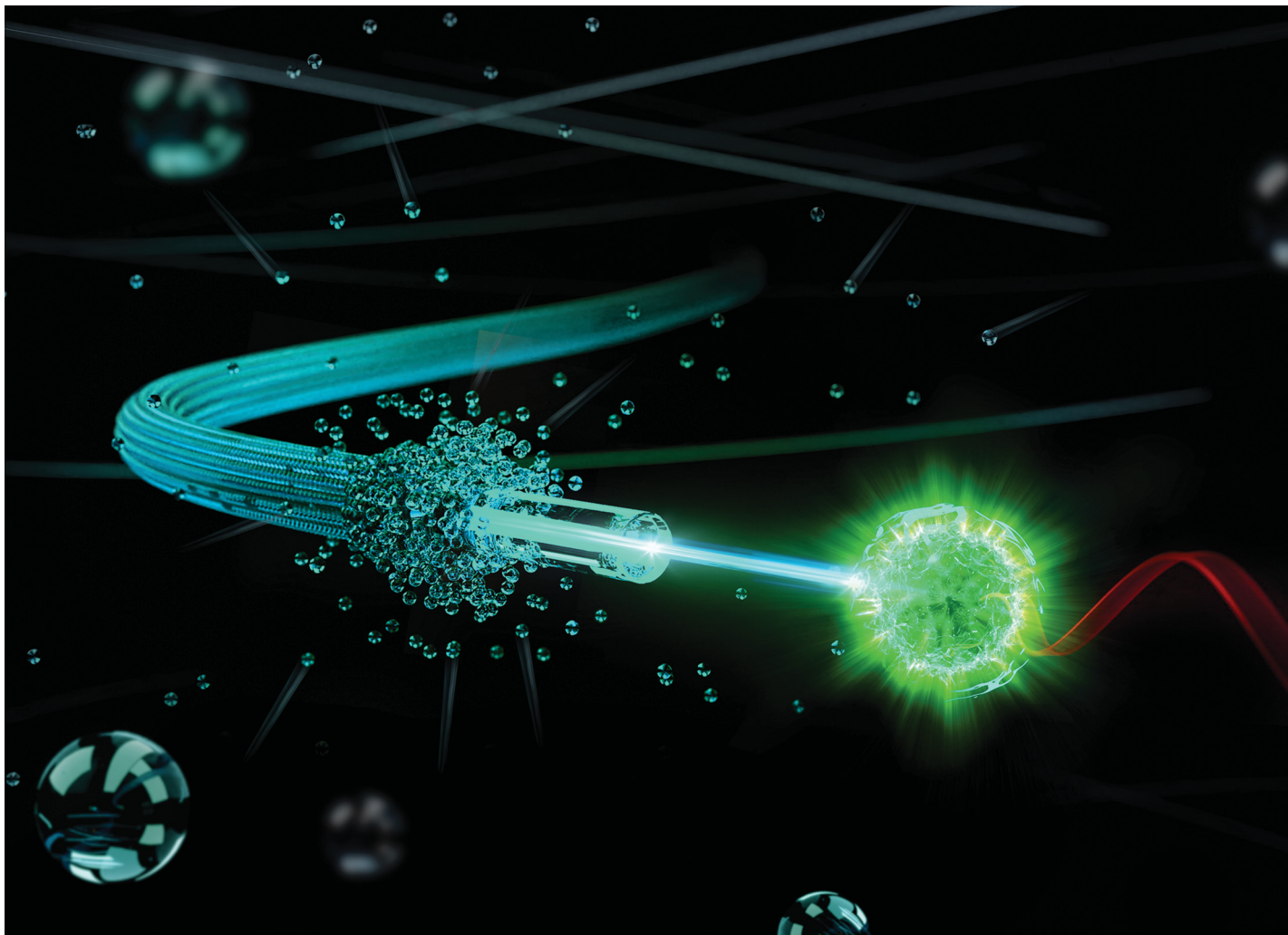
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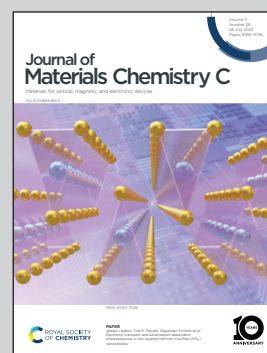


**Showcasing research from Dr Mustafa Ordu's laboratory, National Nanotechnology Research Center (UNAM) and Institute of Materials Science and Nanotechnology, Bilkent University, Ankara, Turkey.**

**Hydrogel-integrated optical fiber sensors and their applications: a comprehensive review**

The review article summarizes the recent advancement in hydrogel-based fiber optic sensing for biomedical and environmental applications. This work covers the fundamentals of hydrogels and their synthesis process, light-guiding and sensing mechanisms adopted by hydrogel-integrated optical fiber sensors, current progress in the fabrication procedures, and a brief evaluation of the applications of the hydrogel-integrated optical fiber sensors. The fundamental aim is to provide a comprehensive insight and future perspective about hydrogel-integrated optical fiber research for the multidisciplinary research communities.

**As featured in:**



See Mustafa Ordu *et al.*,  
*J. Mater. Chem. C*, 2023, **11**, 9383.