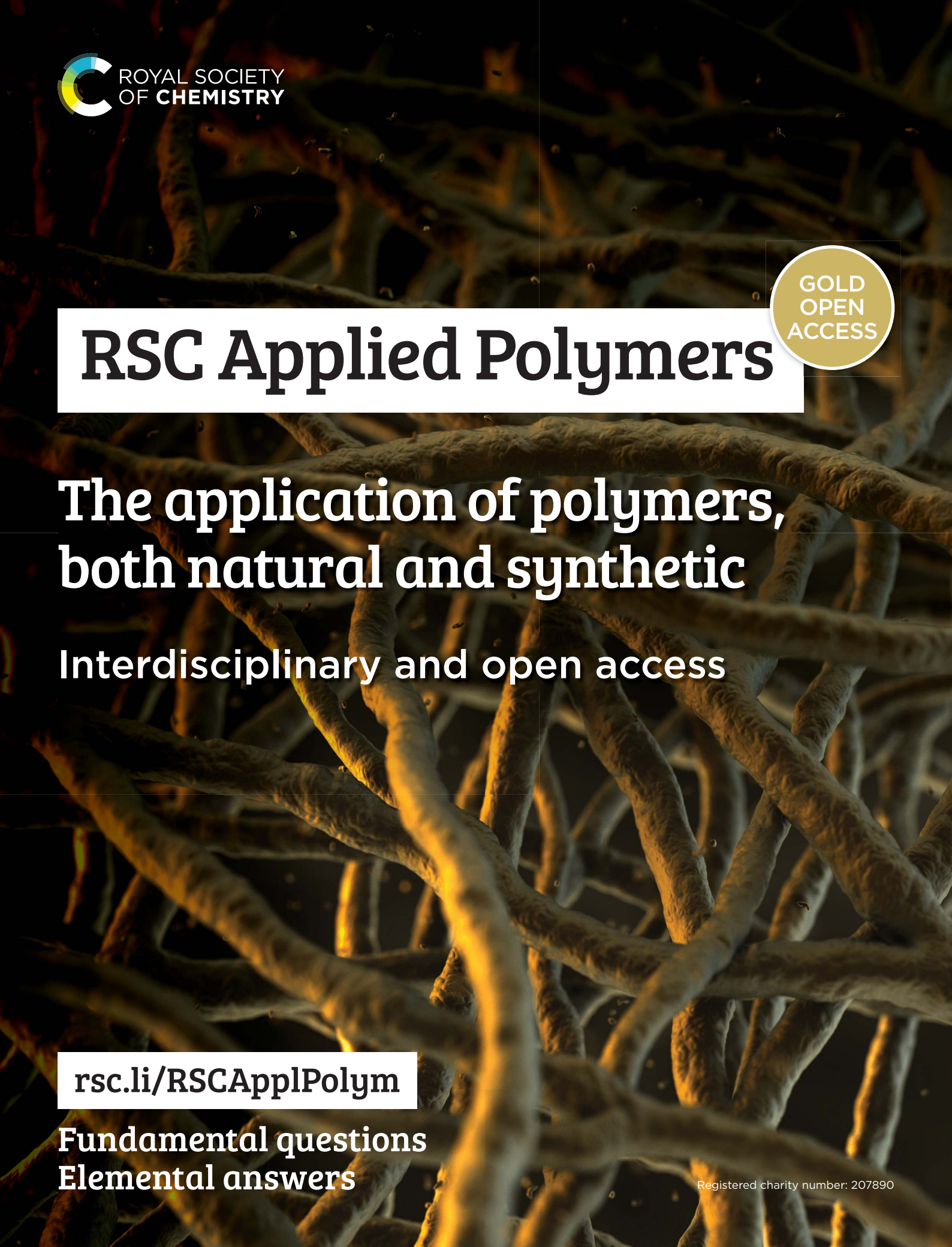
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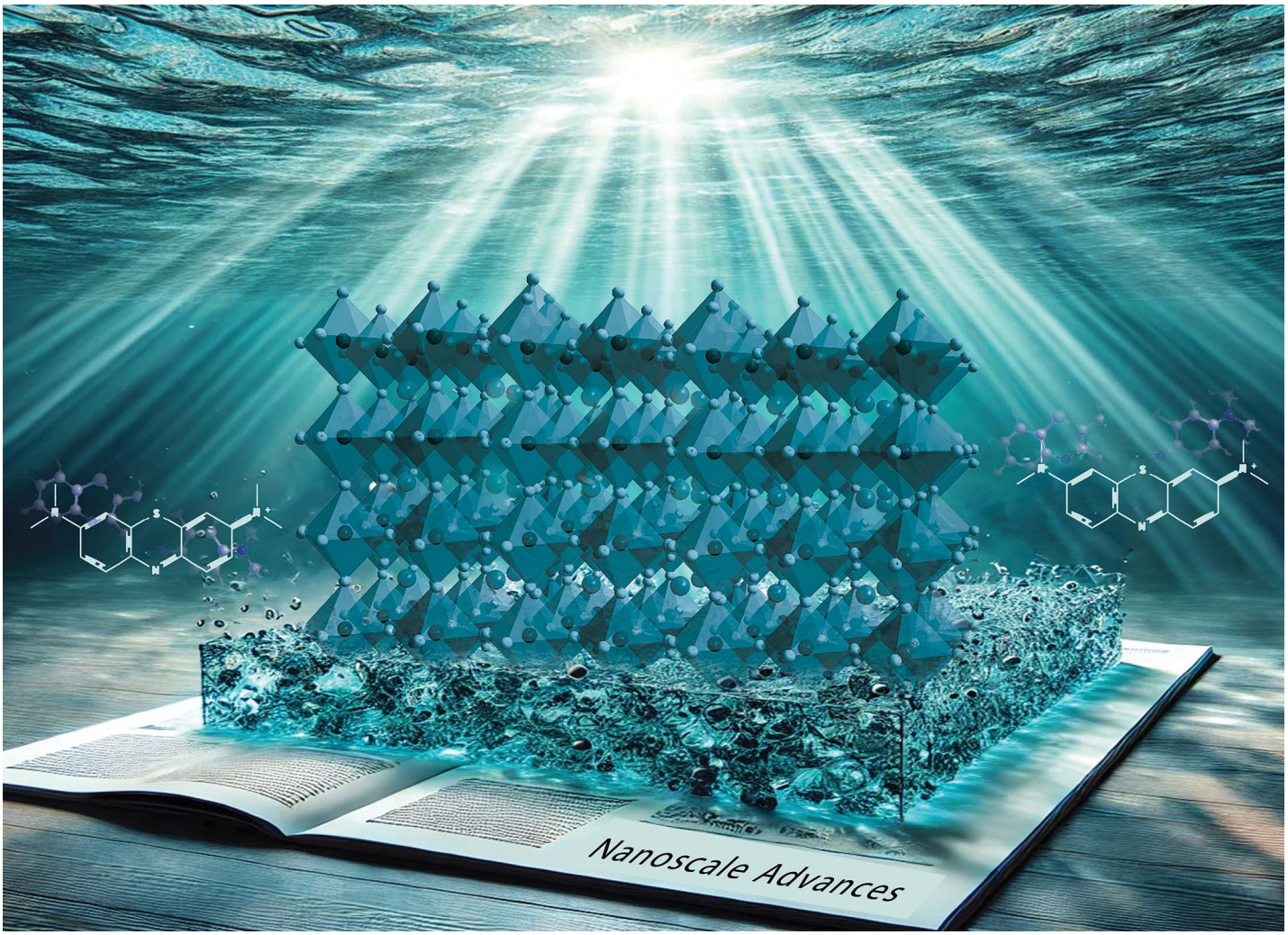
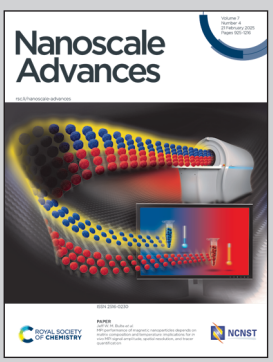



**Showcasing research from Mohamed Masri, Girisha. K. B, Abdo Hezam, Khaled Alkanad, Talal F. Qahtan, Qasem A. Drmosh, Kalappa Prashantha, Manjunath S. H, Sanaa Mohammed Abdu Kaid, K. Byrappa, and Faten Masri, Department of Mechanical Engineering, BGS Institute of Technology, Adichunchanagiri University, B. G. Nagar, Karnataka, India.**

Synergetic efficiency: *in situ* growth of a novel 2D/2D chemically bonded $Bi_2O_3/Cs_3Bi_2Br_9$ S-scheme heterostructure for improved photocatalytic performance and stability

An innovative solution for the instability problem of catalysts in aqueous media was offered *via* synthesizing stable 2D $Bi_2O_3/Cs_3Bi_2Br_9$ nanosheets by optimizing the mixing ratio between $Bi_2O_3$ and $Cs_3Bi_2Br_9$. Bi co-sharing has enhanced the S-scheme charge carrier leading to the improvement of photocatalytic degradation of methylene blue.

## As featured in:




See Faten Masri *et al.*, *Nanoscale Adv.*, 2025, **7**, 1030.

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