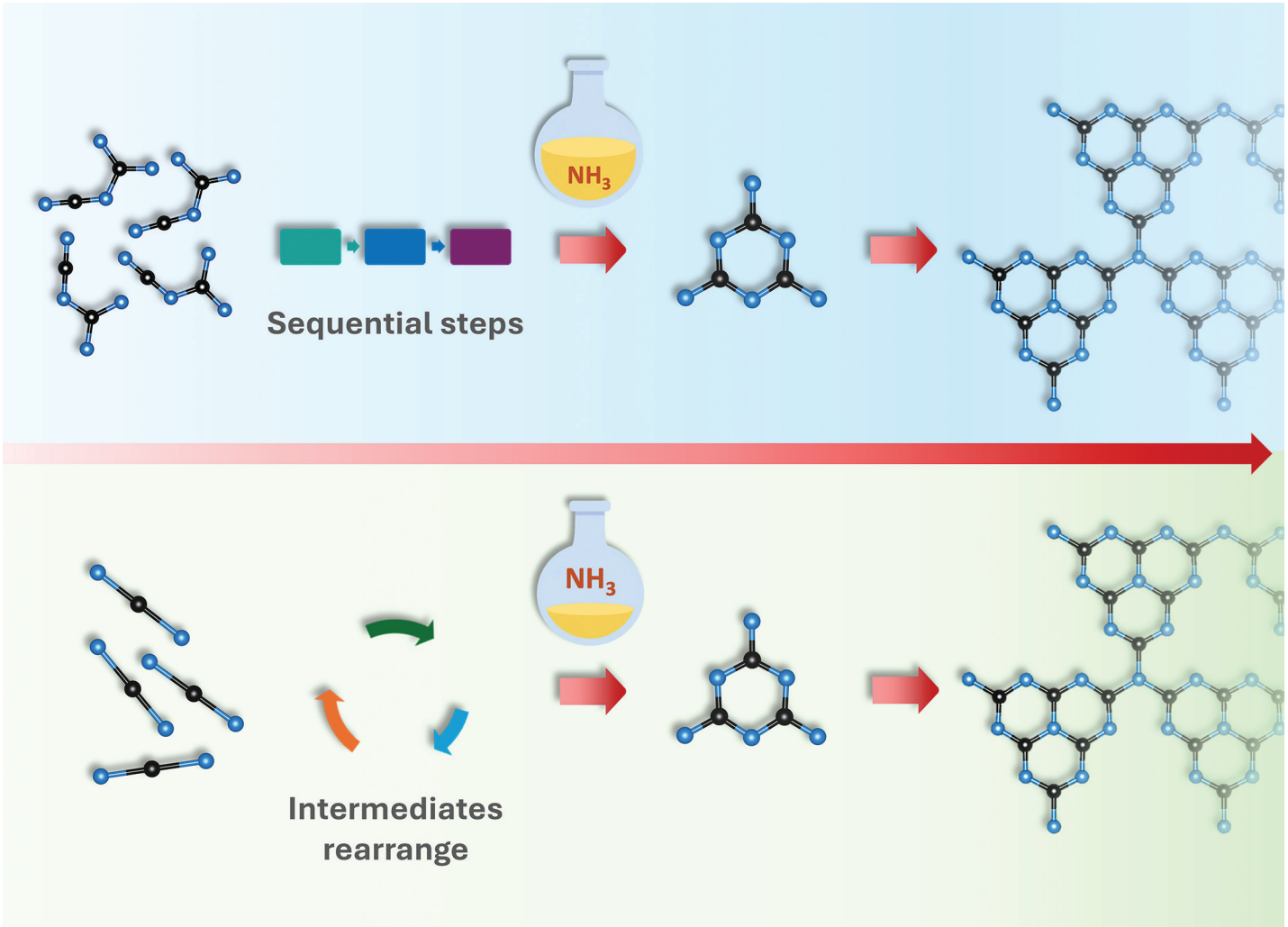


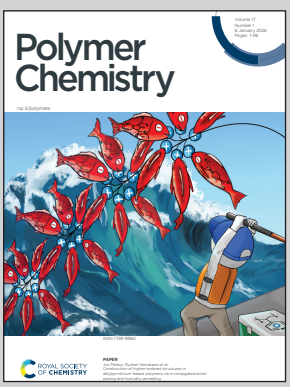
Showcasing research from Professor Dharmapura Murthy's laboratory, Department of Chemistry, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, Karnataka, India.

A precursor-dependent distinctive polymerization process controls the optoelectronic properties of graphitic carbon nitride photocatalyst

This work provides mechanistic insights into how changing the precursor impacts the various intermediates formed during the thermal polymerization process of graphitic carbon nitride (g-C_3N_4), a versatile photocatalyst. A comprehensive correlation is established between the polymerization mechanism and the optoelectronic, photophysical, structural, and photoelectrochemical properties of g-C_3N_4. Results aid in tailoring the properties of g-C_3N_4 to enhance solar-to-chemical energy conversion efficiency by controlling the polymerisation process.

Image reproduced by permission of Simon Joyson Galbao and Dharmapura H. K. Murthy from *Polym. Chem.*, 2026, **17**, 35.

As featured in:



See Murthy Dharmapura *et al.*, *Polym. Chem.*, 2026, **17**, 35.

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