



Showcasing a collaborative research work from Prof. Diganta Sarma's laboratory, Dibrugarh University, India and Dr. Ujjal K. Gautam's laboratory, NEL Lab, Indian Institute of Science Education and Research Mohali, India.

Oxygen-harvesting carbon dot photocatalysts for ambient tandem oxidative synthesis of quinazolin-4(3H)-ones

An efficient photocatalytic route to one pot oxidative synthesis of medicinally important quinazolin-4(3H)-ones has been reported. Acidic and oxygen harvesting waste polythene derived carbon dots are used as an inexpensive metal free photocatalyst cum oxidant. The protocol eliminates the need for external oxidants, ligands, or additives and enables identical efficiencies in air and oxygenated atmospheres, paving the way for using air in industrial processes.

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As featured in:



See Bidyutjyoti Dutta, Ujjal K. Gautam, Diganta Sarma *et al.*, *Green Chem.*, 2025, **27**, 7160.