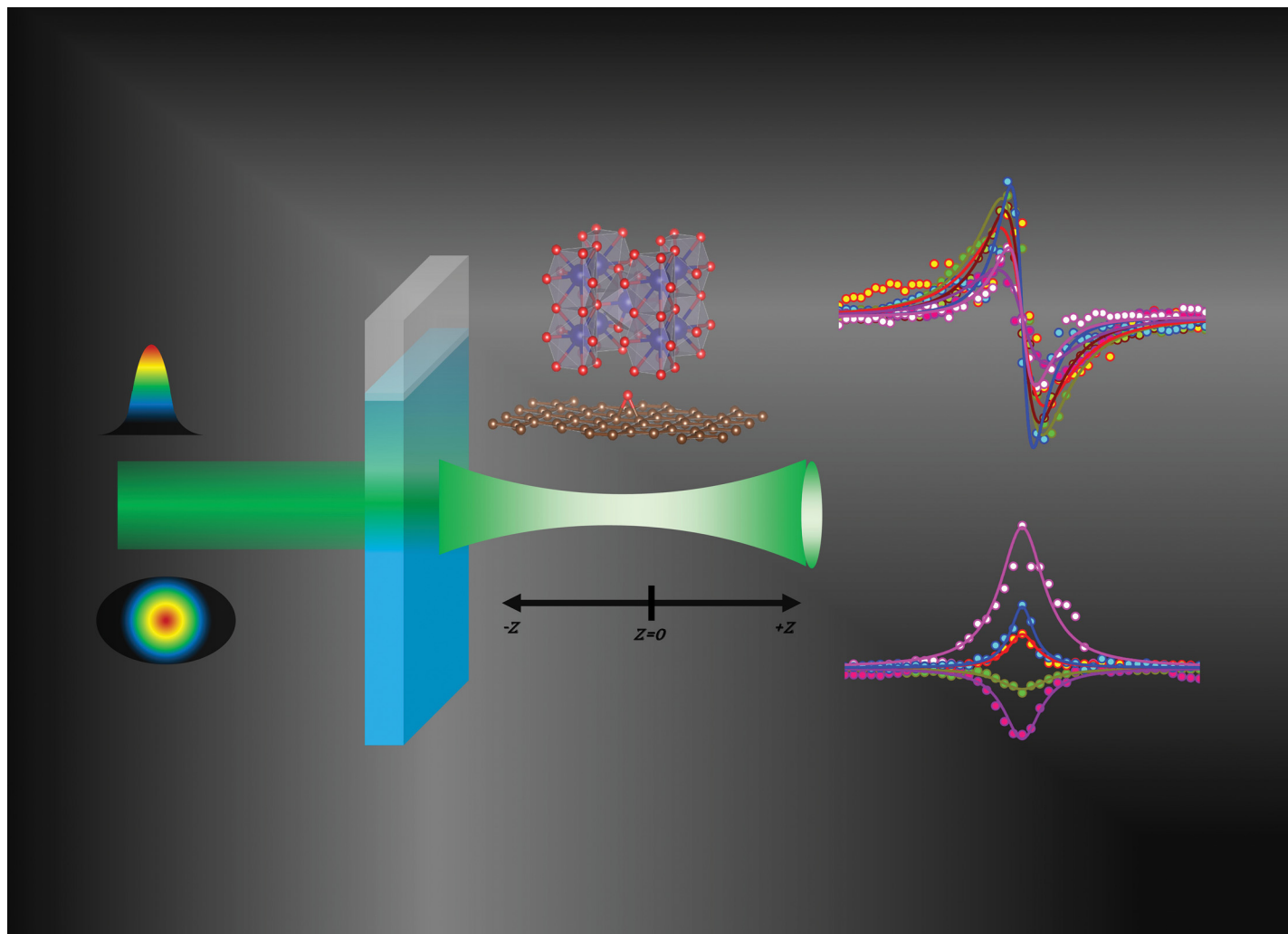




Showcasing research from Professor Ishtiaque M. Syed's laboratory, Department of Physics, University of Dhaka, Dhaka, Bangladesh.

Tuning the nonlinear optical properties of SnO_2 -rGO nanocomposites: exploration using conventional Z-scan and thermal lensing models

In this work, we synthesized SnO_2 and GO to produce SnO_2 -rGO nanocomposites of different ratios. After careful investigation of the nanocomposites, we compared their nonlinear optical (NLO) properties, which pave the way for the optimization of SnO_2 -rGO nanocomposites for applications in optical limiters, mode-locking laser systems, switches, and other nonlinear photonic devices, contributing to the development of more efficient materials in modern optics.

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Mater. Adv., 2025, **6**, 9407.