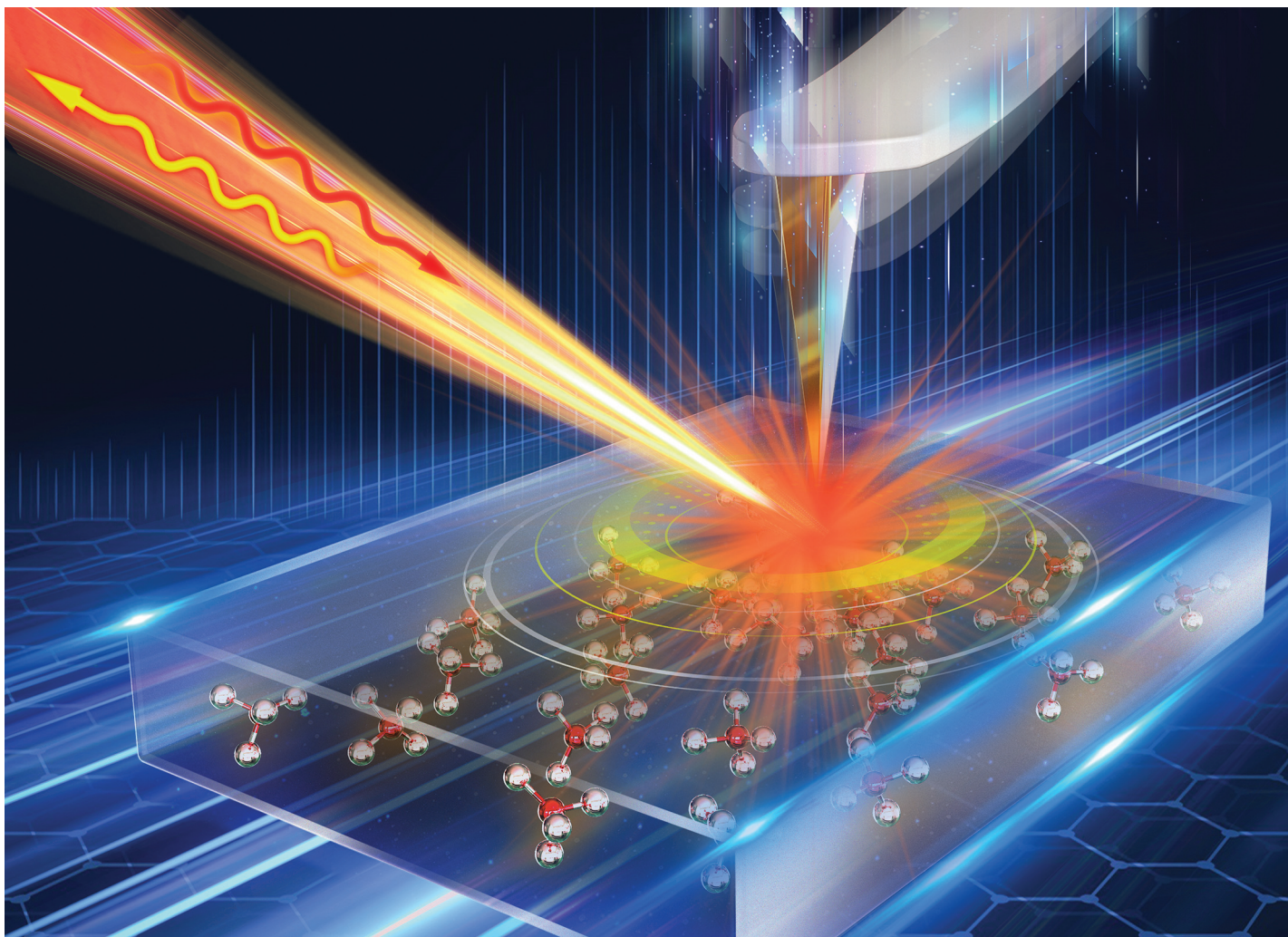




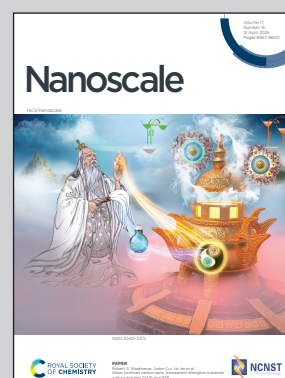
Showcasing work from the State Key Laboratory of High-performance Precision Manufacturing, Department of Mechanical Engineering, Dalian University of Technology, Dalian 116024, China.

Quantitative nanometer-scale characterization of densification in fused silica *via* s-SNOM

The densification feature of fused silica was quantitatively characterized with nanometer-scale precision by s-SNOM. This study introduces a nanoscale range precise, nondestructive method for assessing densification, offering a novel and reliable approach for characterizing point defects in fused silica. The findings are of great significance for the detection of sub-surface nanometers scale defects.

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See Ying Yan *et al.*, *Nanoscale*, 2025, **17**, 9166.