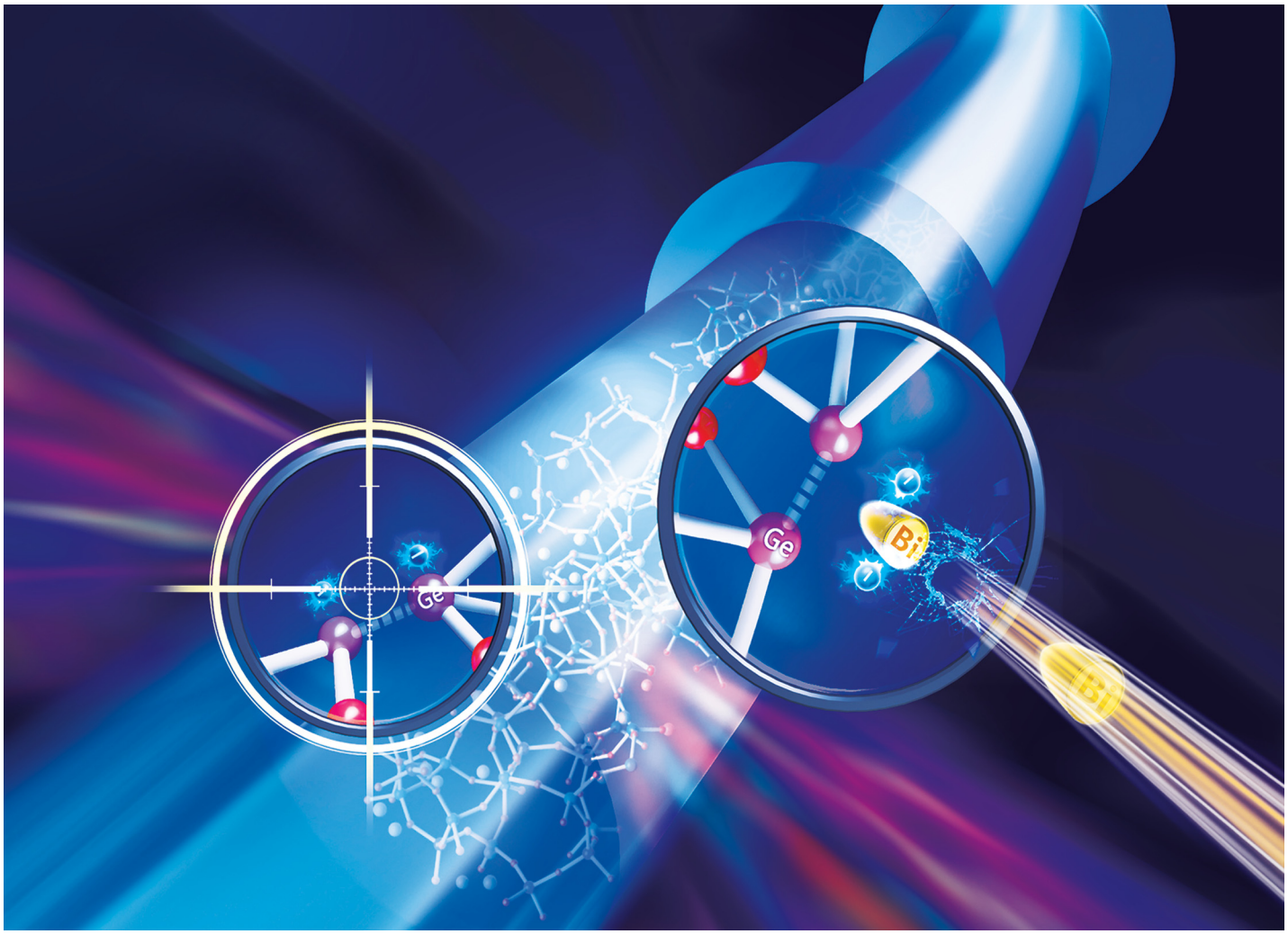
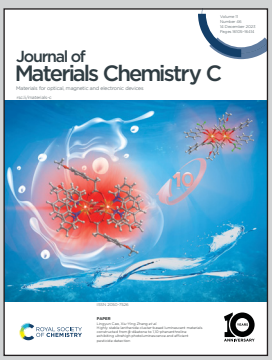


Showcasing the research from Lili Hu's research group, Key Laboratory of Materials for High Power Laser, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences.

Broadband L+ near-infrared luminescence in bismuth/germanium co-doped silica glass prepared by the sol–gel method

Bismuth (Bi) and germanium (Ge) co-doped silica glass and fiber exhibit L+ near-infrared (NIR) luminescence, contributing to the broadening of communication band. We prepared Bi/Ge co-doped silica glass by a sol–gel method and elucidated the behavior of bismuth NIR luminescence, revealing a direct correlation between BAC-Ge responsible for L+ band emission and Ge-ODC. This study serves as a valuable reference for the design of bismuth-doped silica fiber for L+ band amplification applications.

As featured in:



See Chunlei Yu, Lili Hu *et al.*, *J. Mater. Chem. C*, 2023, **11**, 16152.

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