

## Novel Glasses For Optical-Fibre Device Applications

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### Abstract

This paper reviews current research activities on novel multicomponent (soft) glasses for optical-fibre devices, underway at the Optoelectronics Research Centre, University of Southampton. Compound glasses are crucial for a variety of important optical-fibre devices, including 1.3  $\mu\text{m}$  optical fibre amplifiers, up-conversion UV and visible fibre lasers, long-wavelength and high-power fibre lasers. Recent results and progress on silicate, phosphate, germanate, tellurite, fluoride, sulphide and chloride glasses and fibres are presented, together with device performance and application.

(A proposed invited talk)