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Showcasing research from Professor Weiguo Huang's laboratory, State Key Laboratory of Structural Chemistry, Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, P. R. China, and Professor Xiang Ma's laboratory, Key Laboratory for Advanced Materials and Feringa Nobel Prize Scientist Joint Research Center, East China University of Science & Technology, P. R. China.

Algorithm in chemistry: molecular logic gate-based data protection

This review focuses on stimuli-responsive material (SRM)-based data protection, emphasizing the integration of intricate logic and algorithms in SRM-constructed hardware. It also discusses current challenges and future directions of the field.

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See Weiguo Huang, Xiang Ma *et al.*, *Chem. Soc. Rev.*, 2025, **54**, 3681.