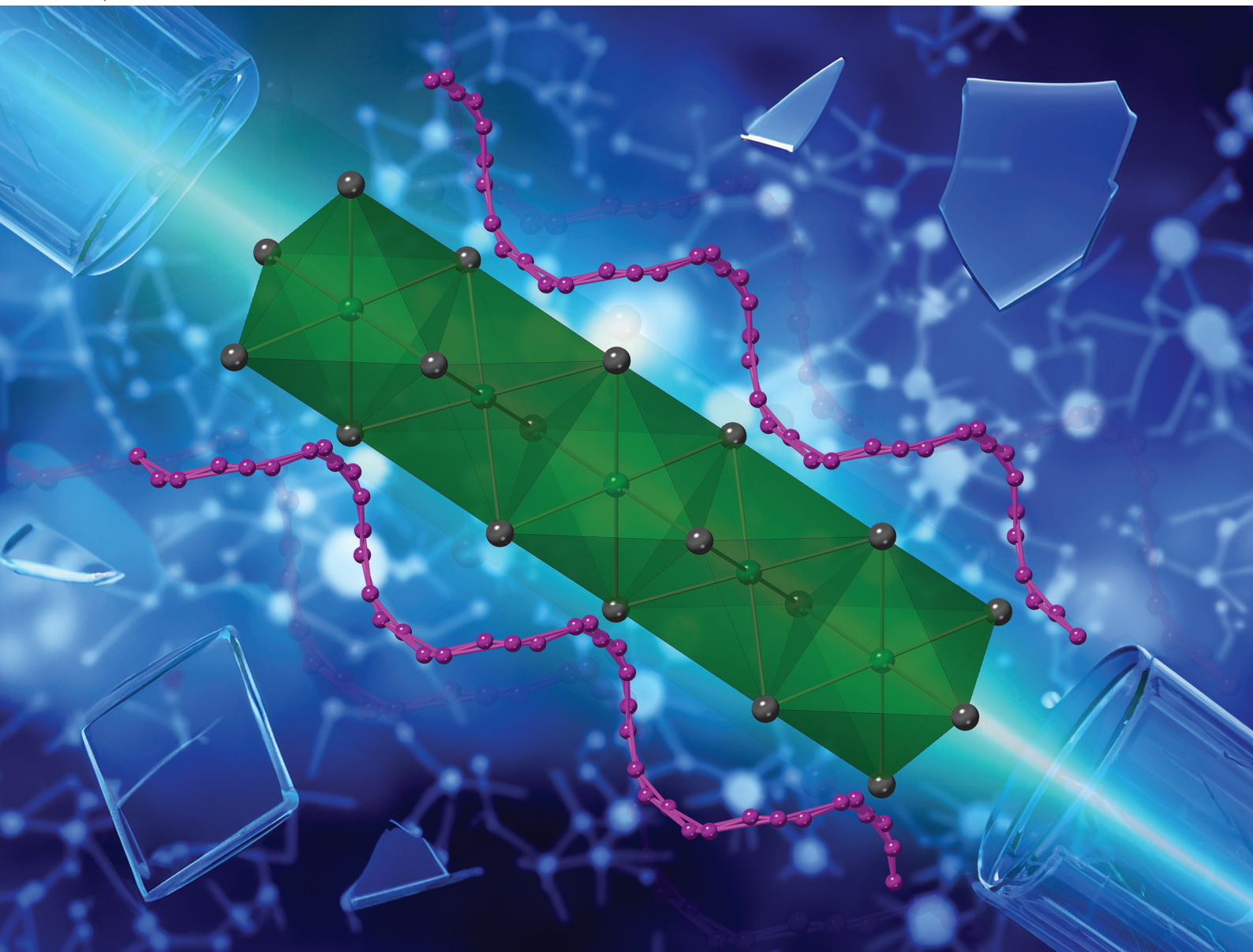


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**PAPER**

Sviatoslav Baranets *et al.*  
Novel ternary Zintl phosphide halides  $Ba_3P_5X$  ( $X = Cl, Br$ )  
with 1D helical phosphorus chains: synthesis, crystal and  
electronic structure