Electronic supplementary information

Synthesis of the perovskite-type oxyfluoride AgTiO$_2$F:
an approach adopting the HSAB principle

Yoshiyuki Inaguma,* Ken Sugimoto, Koichiro Ueda

Department of Chemistry, Faculty of Science, Gakushuin University, 1-5-1 Toshima-ku,
Tokyo 171-8588

*Corresponding author: Yoshiyuki INAGUMA
E-mail: yoshiyuki.inaguma@gakushuin.ac.jp
Fig. S1 Powder X-ray diffraction patterns of the obtained phases when synthesized at 1000 °C for 30 min under 4 GPa for ATiO$_2$F (A = Na, K, Ag).
Fig. S2 Powder X-ray diffraction patterns of the obtained phases when synthesized at 500 °C for 5 min (a), 30 min (b), and 60 min (c) in a sealed tube for AgTiO$_2$F.