

COMPOUND, PATTERNING MATERIAL, SEMICONDUCTOR DEVICE, TERMINAL, AND PATTERNING METHOD

ABSTRACT

5 This application provides an organic mixed metal-oxygen cluster compound, and a chemical general formula thereof is as follows: $(M1)_a(M2)_b(M3)_cO_g(L1)_x(L2)_y(L3)_z$, where M1 is selected from at least one of Ti, Zr, and Hf; M2 is selected from at least one of Bi, Te, Sn, Pt, Ag, and Au; M3 is selected from one of Fe, Ni, Co, and Cu; L1, L2, and L3 are respectively selected from organic ligands that directly coordinate with a metal and include one of O, S, Se, N, and P that serves as a ligating atom; a, b, g, x, y, and z are all natural numbers greater than or equal to 1; and c is a natural number greater than or equal to 0. This application further provides a patterning material including the
10 organic mixed metal-oxygen cluster compound, a semiconductor device including the patterning material, a terminal, and a substrate surface patterning method. According to the substrate surface patterning method in this application, a simple material is used, and a pattern with high resolution and low edge roughness can be implemented.

15 Fig. 2