

Abstract

The present invention relates to the field of desulfurization, and disclosed are an SO₂ adsorption material, a preparation method therefor and an application thereof, and a method for removing SO₂ from flue gas containing SO₂. The SO₂ adsorption material contains a carbonized metal organic framework material and a sulfite loaded on the carbonized metal organic framework material, and the carbonized metal organic framework material is a carbonized material obtained by carbonizing a metal organic framework material; and on the basis of the total weight of the SO₂ adsorption material, the loading amount of sulfite is not higher than 10 wt%. The SO₂ adsorption material provided by the present invention has a relatively high SO₂ adsorption capacity, and may be desorbed and regenerated by heating, and the adsorption capacity still remains at a relatively high level after multiple cycles of adsorption-desorption.

Figure 1.