CO-O-F Series

What is COF 366-co and cof-367-co?

In this research,two frameworks(COF-366-Co and COF-367-Co) were prepared through the condensation of 5,10,15,20-tetrakis (4-aminophenyl)porphinato]cobalt [Co (TAP)]with two different aldehydes (Figure 2a).

What are COF materials?

In most of the previous reviews,COFs are typically categorized as one kind of organic framework material,[65,66]2D materials,[67]or heterogeneous molecular catalysts [21],and are discussed together with other materials.

What is the difference between COF and C 2+ products?

Although COFs have been extensively studied for ECO 2 RR catalysis with significant achievements,most of the products are the easily obtained two-electron reduced product,CO. In contrast,C 2+products impose more stringent requirements on reaction kinetics.

What is a 2D COF based on a metalloporphyrin monomer?

Jiang on another occasion, also prepared 2D COFs series composed of metalloporphyrin monomer (MP, M= H 2, Cu, Ni). 213 Structurally, the COFs possess intralayer hydrogen bonding that function to interlock the tetragonal sheet of the COFs in planar confirmation via p-cloud delocalization over the 2D sheets.

Are COFs a good catalyst for eco 2 RR?

As an emerging class of porous materials,COFs have been used in the ECO 2 RR domain and demonstrated exceptional performance. This review presents the latest developments of COFs as ECO 2 RR catalysts and provides systematic summaries based on the characteristics of COFs materials.

Does co-COF have a supereminent photocatalytic performance with CO-O 4 sites?

Mechanistic investigations indicate that the supereminent photocatalytic performanceof Co-COF with Co-O 4 sites is mainly attributed to the strong separation ability of photoinduced electrons and holes although the contributions of high CO 2 adsorption capacity and low charge-transfer resistance are also important.

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