

金属多硫1,2-二硫烯配合物C[Ni(dmid)~2]的研究

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摘要 首次制得通式为C[Ni(dmid)~2]系列新配位化合物(C为外部阳离子, H~2dmid=4,5-二硫醇-1,3-二硫-2-酮)。当这些配合物用化学法氧化时,得到同一种配合物[Ni(dmid)~2],并确定了这些新配合物的组成,研究了它们的IR, UV, ESR, XPS谱和循环伏安图,测定了室温导电率。XPS谱的研究结果说明,用化学法氧化时电子转移过程主要发生在配体上,配位体的电荷分布发生了变化。

关键词 [硫烯](#) [镍络合物](#) [电荷分布](#) [氧化](#) [红外分光光度法](#) [紫外分光光度法](#) [电子自旋共振](#) [X射线光电子谱法](#)

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Study on metal multi-sulfur 1,2-dithiolene coordination compounds of C[Ni(dmid)~2]

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Abstract A new series of coordination compounds C[Ni(dmid)~2] (where C is outer cations, H~2dmid=1,3-dithiole-2-one-4,5-dithiolate) have been prepared for the first time. The same compound [Ni(dmid)~2] is obtained when these compounds of C[Ni(dmid)~2] are oxidized. The components of these new compounds have been determined. IR, UV, ESR, XPS, cyclic voltammograms and conductivities at room temperature were studied. The XPS spectra show that the electron transfer occurs mainly on the ligand during the oxidation. Thus, charge distribution of the ligand changed accordingly.

Key words [NICKEL COMPLEX](#) [CHARGE DISTRIBUTION](#) [OXIDATION](#) [INFRARED SPECTROPHOTOMETRY](#) [ULTRAVIOLET SPECTROPHOTOMETRY](#) [ELECTRON SPIN RESONANCE](#) [X-RAY PHOTOELECTRON SPECTROMETRY](#)

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