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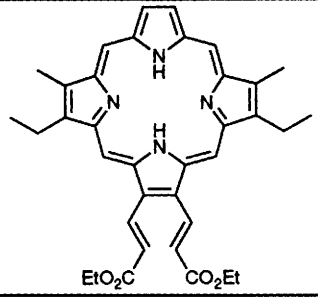
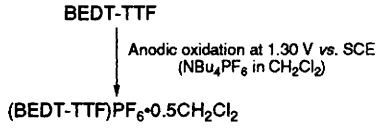
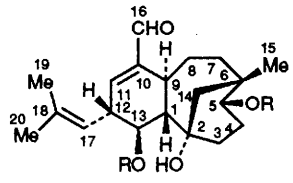
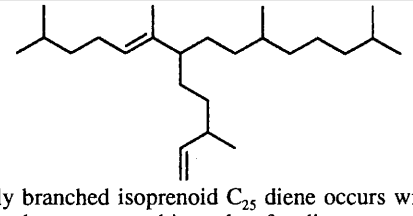






A novel luminescent organometallic ruthenium(II)/platinum(II) binuclear complex, $[Ru(bpy)_2(\mu\text{-}2,3\text{-}dpp)PtMe_2]^{2+}$ (**1**) and its ruthenium(II)/dichloro-platinum(II) and palladium(II) analogues, $[Ru(bpy)_2(\mu\text{-}2,3\text{-}dpp)PtCl_2]^{2+}$ (**2**) and $[Ru(bpy)_2(\mu\text{-}2,3\text{-}dpp)\text{-}PdCl_2]^{2+}$ (**3**) have been synthesized and shown to exhibit red ^{3}MLCT emission at room temperature; the X-ray crystal structure of complex **2** [2,3-dpp = 2,3-bis(2-pyridyl)pyrazine] is reported.



This highly branched isoprenoid C_{25} diene occurs widely in sediments and is thought to act as a biomarker for diatomaceous algae. Isolation from Caspian Sea sediments has allowed structural characterisation by NMR and MS.

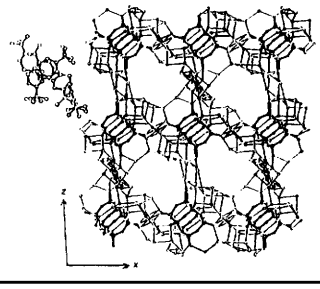
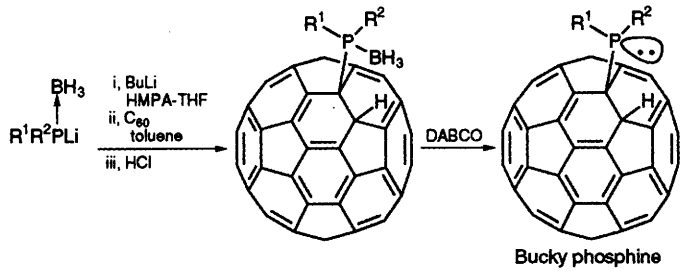
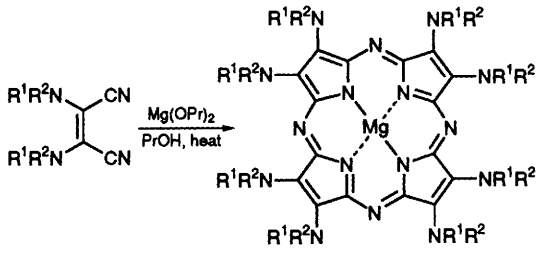
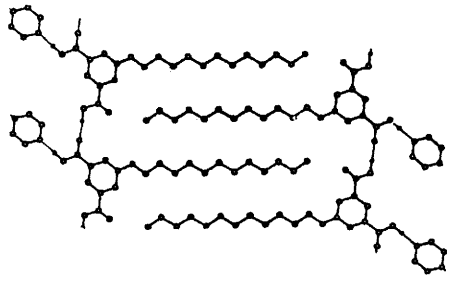
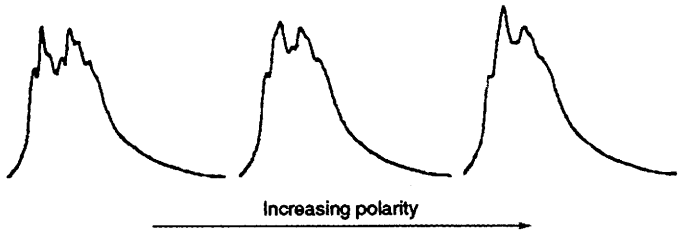


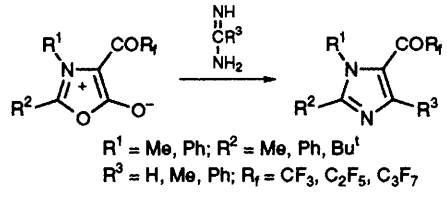
Illustration of the mixed host framework and $[NPhMe_3]^+$ guest cations (upper left corner) of $[NPhMe_3]_6[Si_8O_{18}(OH)_2]\cdot 38.7H_2O$

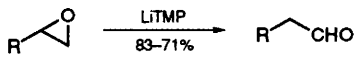


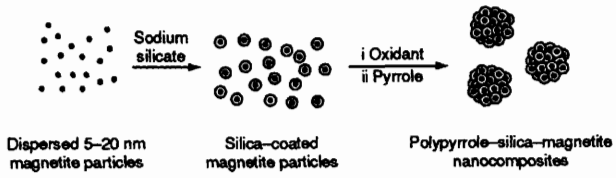


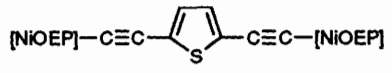




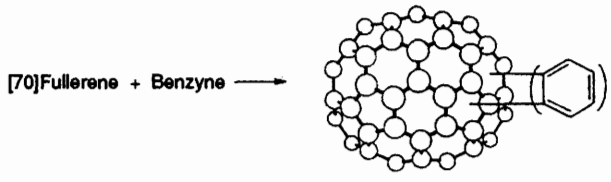








The conjugated bridge and the attached *meso* carbons are almost coplanar; the porphyrin rings are ruffled and distorted, and there is strong inter-porphyrin interaction *via* the π-orbitals of the diethynylthiophene unit.



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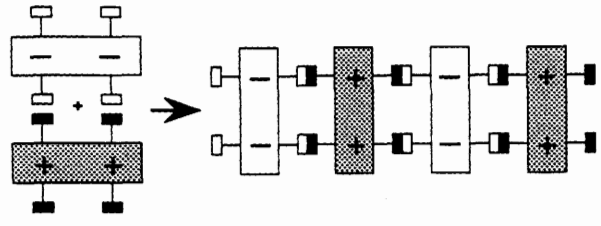

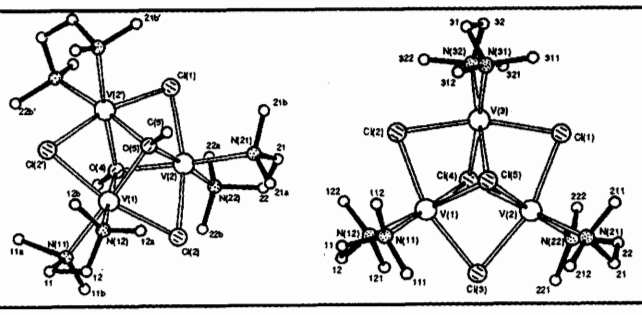

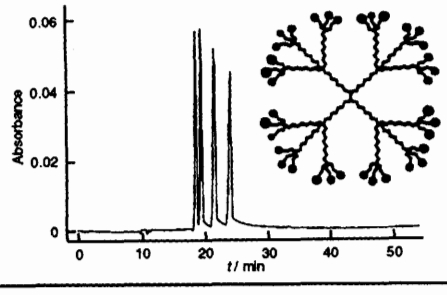

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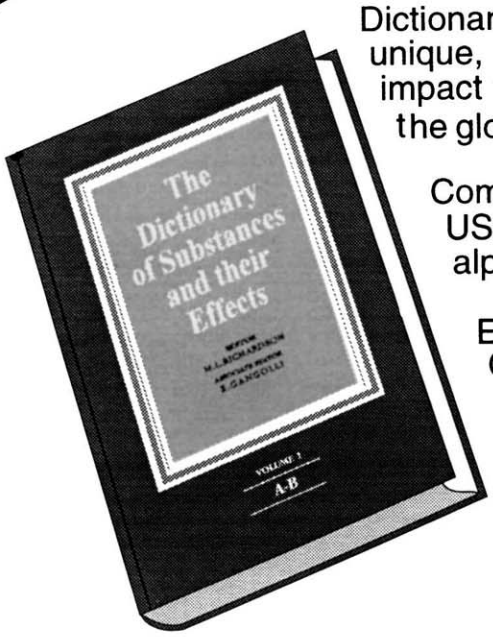

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