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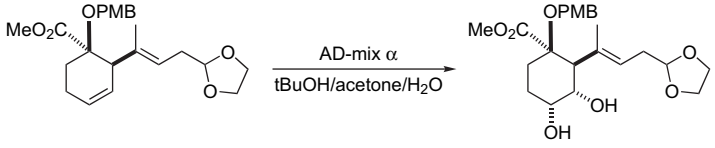

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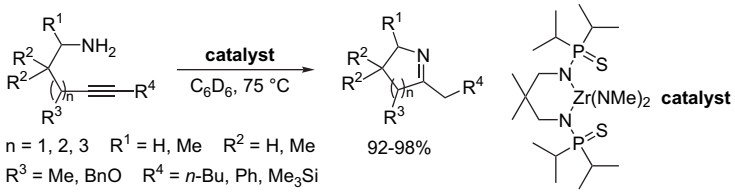
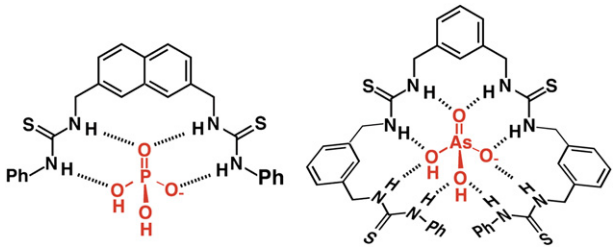
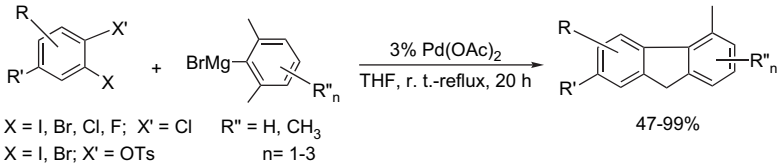
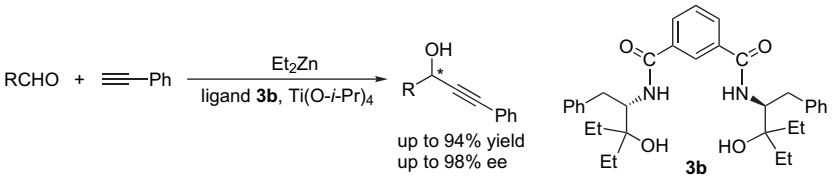
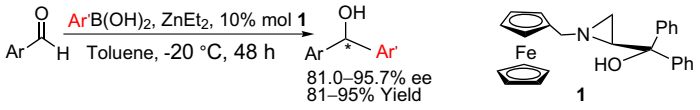
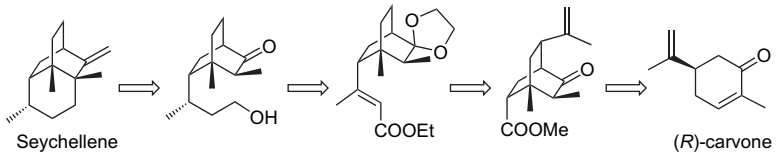


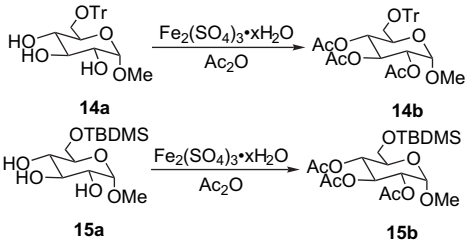




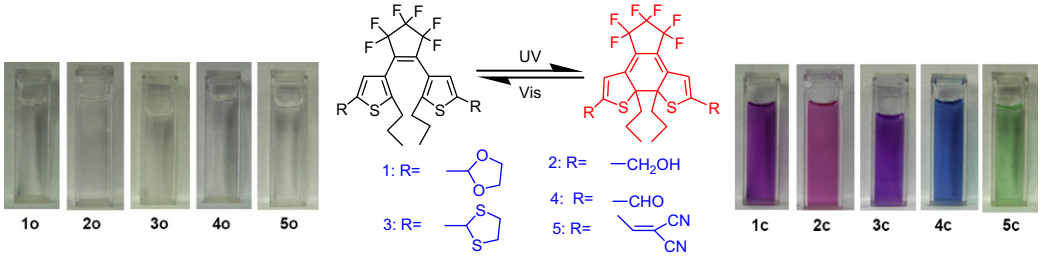


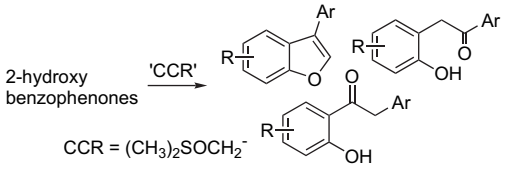


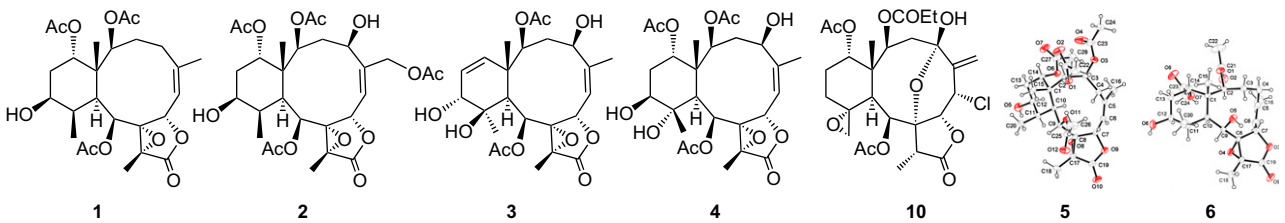




Photochromic symmetrical diarylethene derivatives **1o**–**5o** bearing different electron-donating or electron-withdrawing substitutents at 5-position of the two thiophene rings have been synthesized. Substituent effects on their optoelectronic properties were investigated in detail.

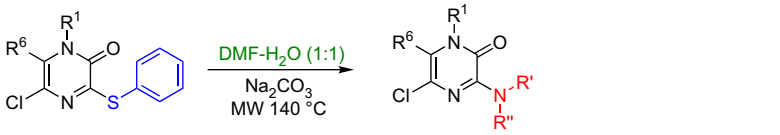


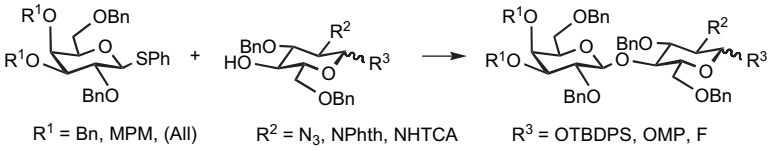




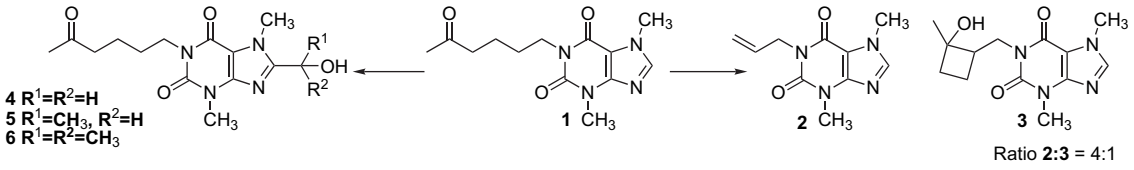
Briaexcavatins I–L (**1**–**4**) and fragilide **C** (**10**)

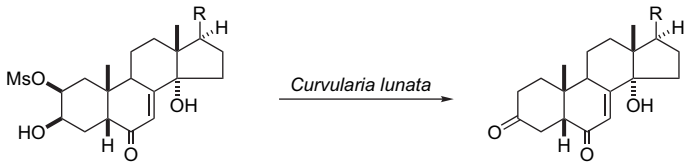
The ORTEP plots of excavatolides C (**5**) and E (**6**)

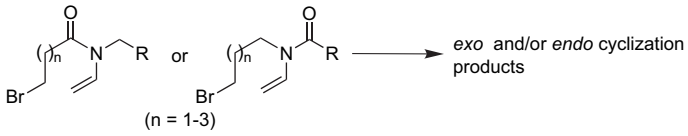


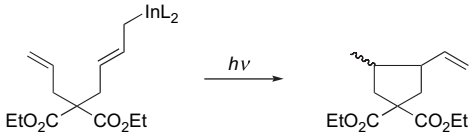


β-Selective galactosylation was achieved using a series of 2-*O*-benzylated phenyl 1-thio-galactosides and glycosyl acceptors in propionitrile with BSP–TTBP–Tf_2O.

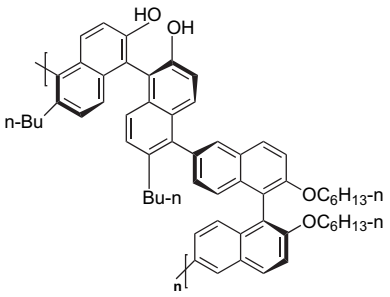




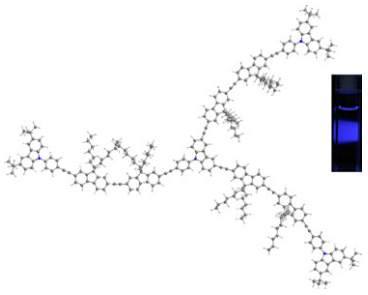


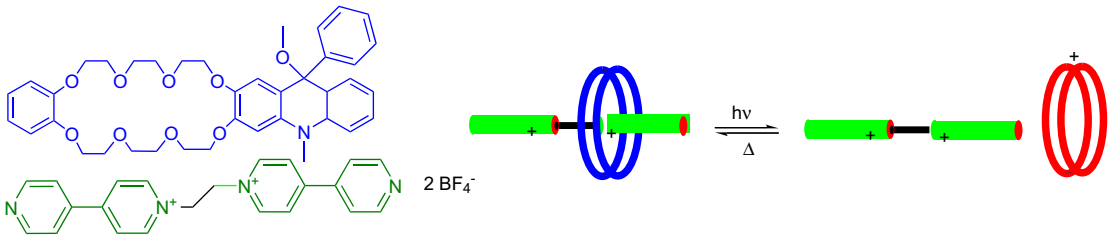


A chiral polymer ligand containing 6,6′-dibutyl-2,2′-binaphthol and (*S*)-2,2′-bishexyloxy-1,1′-binaphthyl moieties in the main-chain backbone was used as a catalyst to the asymmetric addition of phenylethynyl zinc to various aldehydes. The results show that the soluble chiral polybinaphthols ligand in combination with Et_2Zn and $Ti(O^iPr)_4$ can exhibit excellent enantioselectivity for phenylacetylene addition to both aromatic and aliphatic aldehydes. The catalytically active center of the repeating unit ***S*-1** used as a catalyst produced the opposite configuration of the propargylic alcohols to that of ***S*-1**, on the contrary, the chiral polymer gave the same configuration as the optically active binaphthol moiety of the polybinaphthols ligand. Moreover, the chiral polymer ligand can be easily recovered and reused without loss of catalytic activity as well as enantioselectivity.



A series of well-defined, highly fluorescent starburst compounds based on carbazole and fluorene have been synthesized and fully characterized. Deep blue photo- and electroluminescence are observed from these compounds.





*Corresponding author
Supplementary data available via ScienceDirect

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