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## Research Details :

Research Title	: <u>Synthesis, characterisation and thermal stability of 2-ferrocenylidene (1-tetralone), 2-ferrocenylideneindan-1,3-dione, diferrocenylidene cyclohexanone and diferrocenylidene cyclopentanone</u> <u>Synthesis, characterisation and thermal stability of 2-ferrocenylidene (1-tetralone), 2-ferrocenylideneindan-1,3-dione, diferrocenylidene cyclohexanone and diferrocenylidene cyclopentanone</u>
Descriptipn	: Purpose - To discuss synthesis and evaluation of organo-metallic chalcones as second-order nonlinear optical (SONLO) materials. Design/methodology/approach - The new chalcones have been synthesised via Knoevenagel reactions of ferrocen carboxaldehyde with two active methylene compounds. Findings - The ferrocenyl chalcones prepared have shown bathochromic shift and thermal stability in polymeric film. On heating the dye films up to 80°C the extent of degradation reached up to 12 per cent and very small amount of degradation was observed at 43 and 60°C. Originality/value - The paper shows that these compounds have UV-Vis bathochromic shift, enabling them to be used as SONLO materials in the blue domain as well as dyes. © Emerald Group Publishing Limited.
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