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Research Details :

Research Title	: <u><i>Novel synthesis of heteroarylazopyrazolones and their application as disperse dyes via AlCl₃-catalyzed diazocoupling of 1-aryl/heteroaryl-3-methyl-1H-pyrazol-2-in-5-ones in aqueous medium</i></u> <u><i>Novel synthesis of heteroarylazopyrazolones and their application as disperse dyes via AlCl₃-catalyzed diazocoupling of 1-aryl/heteroaryl-3-methyl-1H-pyrazol-2-in-5-ones in aqueous medium</i></u>
Descriptipn	: Abstract: AlCl ₃ -catalyzed diazocoupling of 1-aryl/heteroaryl -3 -methyl- 1H-pyrazol-2-in-5 -ones 1 in water with different aryl/heteroaryldiazonium salts affords the corresponding heteroarylazopyrazolones 2 as colored products with high yields. These dyes have been characterized by UV-Vis, FT-IR and H-1 NMR spectroscopic techniques and elemental analysis. Cotton, wool, silk and polyesters fabrics have been dyed and their photostability and color fastness identified.
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Researchers :

Researcher Name (Arabic)	Researcher Name (English)	Researcher Type	Degree	Email
سالم أحمد باسيف	Basaif, Salem A	Researcher	استاذ	.
.	Hassan, Mohamed A	Researcher	.	.
.	Gobouri, Adil A	Researcher	.	.