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Dr.Naziya Rashidi



Research Paper

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Mathematics

● Kaluza-Klein Cosmological Model for Barotropic Fluid Distribution with Varying $\bar{E}(t)$ in Creation Field theory of Gravitation

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ABSTRACT

We have studied the Hoyle-Narlikar \bar{c} -field cosmology for Kaluza-Klein spacetimes with varying cosmological constant $\lambda(t)$, when the universe is filled with barotropic fluid distribution. To get deterministic solution, we assumed that $\lambda = \lambda(t)$ as considered by us in Chen & Wu (Phys. Rev. D 41 993, 1990), where λ is a scale factor. The various special cases of the model (20) viz. Dust filled universe ($p = 0$), Stiff fluid universe ($p = p$) and Radiation dominated era ($p = 3p$) are also discussed. The physical aspects for these models are also studied.

Keywords: C-Field cosmology, Barotropic fluid, Varying cosmological constant $\lambda(t)$.

Introduction :

The model of the universe used for the investigations dealing with physical problems as a big-bang model. The big-bang model has various problems. To overcome problems in the big-bang model, alternative theories were proposed from time to time; most popular theory was put forward by Bondi&Gold [1] called steady state theory. The theory fails for not giving any physical justification for continuous creation of matter; a principle of conservation of matter was isolated in this formalism. To overcome this difficulty, Hoyle and Narlikar [2] adopt a field theoretical approach by introducing a massless and chargeless scalar-field C in the Einstein-Hilbert action to account for matter creation. The theory proposed by Hoyle and Narlikar called as \bar{c} -field theory which has no big-bang type singularity.

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Abstract of papers

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Research Article

CYCLO-CONDENSATION OF SUBSTITUTED THIOPHOSCARBAZIDES: SYNTHESIS OF 2,5-DISUBSTITUTED 1,2,4-TRIAZOLIN-3-THIONE

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2-Ns-thiophen-2-yl-3-pyridinyl-5-sulfonyl-1,3,4-dihydro-1H-1,2,4-triazol-3-ylidene (IVa-c) have been synthesized by the condensation of 2-substituted thiophen-2-ylidene with 3-pyridinyl-5-sulfonyl-substituted ethylhydrazide following a previously reported method. The intermediate products (IVa-c) were purified by column chromatography and characterized by IR, ¹H NMR, and mass spectrometry. The structures of these compounds were confirmed by the use of elemental analysis and IR, PMR, Mass spectrometry.

Key words:

2-Ns-thiophen-2-ylidene, cyclo-condensation reaction

1,3,4-dioxadiazole, diastereomer, bicyclic, thiazole

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INTRODUCTION

From a last decade a lot of work is going on, on the triazole ring, attention devoted a lot of new compounds related to this nucleus and screened them for their different pharmacological activities to get a molecule, which has good pharmacological activities. The triazole nucleus is a common substituted 1,3,4-thiadiazole and 1,2,4-triazole are reported in the literature [1-3]. Triazole derivatives have numerous biological activities (Singh R. and Singh D. K. 1999; Nirmala N. 2006) and have been synthesized from different compounds (Bhatia CS, Bhatia S. 1996; Yao B. H. 1998). I must say that it is a potent drug pharmacological activity, triazole is itself a good drug therefore we synthesized 490 mg of triazole. The current work describes the synthesis of 2-substituted thiophen-2-ylidene (Va-d) and their di-substitution into respective 1,2,4-triazolines-3-thiones (IVa-d).

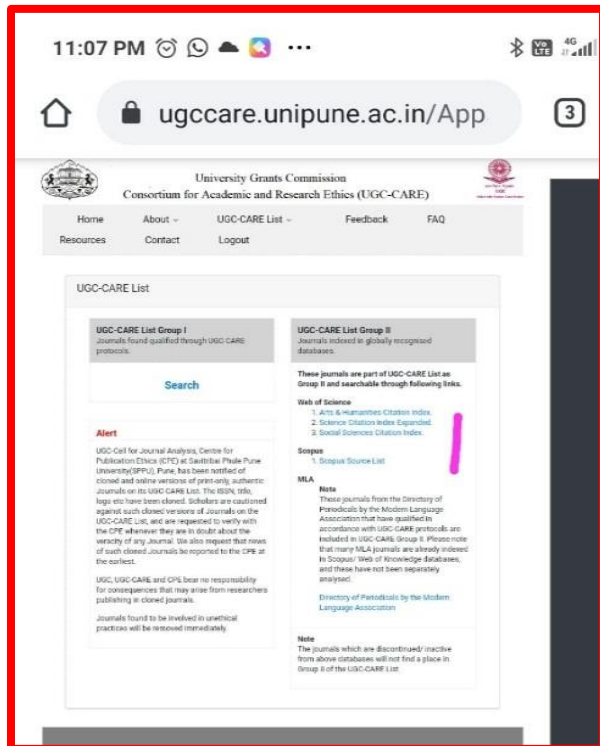
Experimental

All melting points were measured using electro-thermal apparatus are uncorrected. IR spectra were measured using KBr plate technique on a Bruker FTIR spectrophotometer. ¹H NMR spectra (DMSO-d₆) and CDCl₃ were recorded on a Bruker Avance 400 MHz spectrometer using TMS as internal reference (chemical shifts in δ, ppm). The triazole required for the synthesis of 1,3,4-thiadiazolines are listed in Table 1.

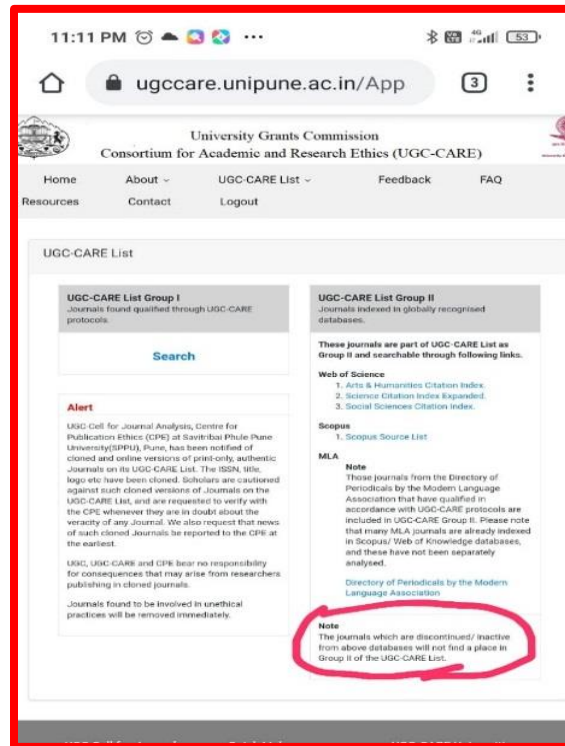
(Vogel A. I. 1958) and tert-butyl isothiocyanate (Srinewsky W. 1960). The two-substituted thiophen-2-ylidene were prepared following earlier reported method (Dyson G. M. and Haining 1949). The 1-pyridinyl-5-sulfonyl-3-thiophenylisothiocarbam

Abstract of papers

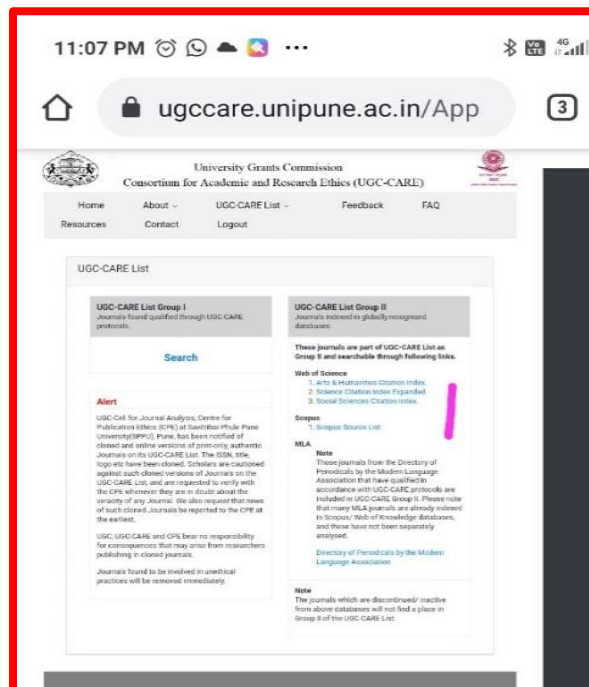
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Abstract



Abstract



Abstract

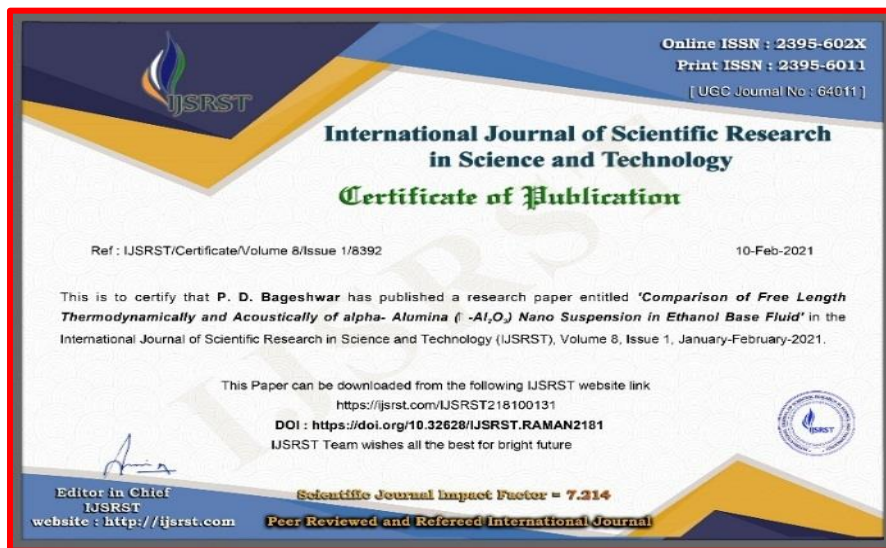
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