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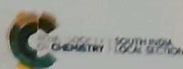
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PP 170	N-substituted hydroxyl naphthaleneimino-oxindole derivatives as new class of P13-kinase inhibitor and breast cancer drug: Molecular validation and structure-activity relationship studies <i>Rajeshkumar M, Manikandan Alagumuthu, Violet Dhayabaran V and Pravinkumar S</i>	212
PP 171	Synthesis and characterisation of novel biodegradable copolyesters for water treatment applications <i>Karunanidhi M, Nanthini R, Ravi A and Subhashini S</i>	212
PP 172	Synthesis and characterization of 2-amino-1,3,4-oxodiazole derivatives <i>Sapthagiri R, Ilavarasan L, Ganapathi M, Karunanidhi M and Ravi A</i>	213
PP 173	Efficient synthesis of fluorescent tetra macrocycles appended zero generation dendrimer and its copper(II) complex <i>Pushpanathan V and Sureshkumar D</i>	213
PP 174	Novel Nd incorporated KIT-6: Its catalytic activity for cyclohexene epoxidation <i>Nilamadhanthai A, Imran G and Pandurangan A</i>	214
PP 175	Study of engine emission in a DICl engine with bio fuel <i>Ganesan R, Arumugam S and Pitchandi K</i>	215
PP 176	One-pot synthesis and characterization studies of calcium molybdate (CaMoO_4) nanoparticles and their electrochemical properties <i>Seevakan K, Manikandan A, Devendran P and Alagesan T</i>	215
PP 177	An expedient one-pot, catalyst free synthesis of 2-amino-6-morpholino-4-p-tolylquinoline 3-carbonitrile <i>Vinoshia B.M and Hariharan R</i>	216
PP 178	A facile pseudo four-component diastereoselective synthesis of novel multifunctional thianes <i>Vinoshia B.M, Renuga S, Perumal S and Hariharan R</i>	217
PP 179	Investigations on the growth and characterization of an organic NLO single crystal 2-pyridylaminium p-aminobenzoate (2PPA) for photonic applications <i>Sarbudeen A, Syed Mohammed Mujaheer A, Foize Ahmad G and Gulam Mohammed M</i>	217
PP 180	Tannery effluent induced alterations in the nucleic acids of freshwater fish <i>Channa striatus</i> <i>Sivachandran R, Sangeetha M and Mazher Sultana</i>	218
PP 181	Synthesis, molecular stabilization, nonlinear optical investigation of (E)-N'-(benzo[d][1,3]dioxol-5-yl methylene)benzohydrazide (BDMB) <i>Uthayakumar M and Pricilla Jayakumari A</i>	218
PP 182	Synthesis, characterization and photocatalytic activity of Congo Red dye of Eu-ZnO-Ag nanoparticles <i>Jerlin Jose Y, Manjunathan M and Joseph Selvaraj S</i>	219

powder X-ray diffraction (XRD) analysis. The functional group analysis was confirmed by infrared (FT-IR) analysis. The morphology of the sample consists of particle-like rod shaped nanostructures and purity of the samples was confirmed by Scanning electron microscope (SEM) with energy dispersive X-ray (EDX) analysis and high-resolution transmission electron microscope (HR-TEM) analysis. The optical and electronic properties were confirmed by the ultraviolet visible absorption spectroscopy (UV-vis spectra) and photoluminescence (PL) spectroscopy. The magnetic properties were studied by vibrating sample magnetometer (VSM) analysis. The nanoparticle chemical bonding were studied by Raman spectroscopy. Thermal properties of the samples were studied by Thermogravimetry analysis and Differential scanning calorimetry (TGA/DSC). Electro chemical properties of CaMoO_4 nanoparticle was studied by Cyclic Voltammetry (CV).

Keywords: Nanoparticles; CaMoO_4 Combustion method; Optical properties; Magnetic properties and Cyclic voltammetry.

PP 177

An Expedient One-Pot, catalyst free Synthesis of 2-amino-6-morpholino-4-p-tolylquinoline 3-carbonitrile

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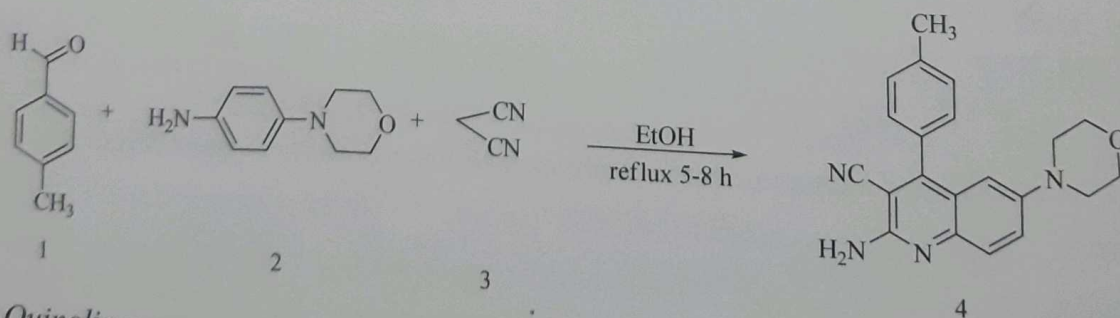
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Abstract

Quinolines constitute an important class of heterocycles and several methods have been reported for their synthesis since 1800s. The quinoline ring system is present in a number of natural and synthetic products often endowed with interesting pharmacological and physical properties. The quinoline ring system exists in natural products, especially alkaloids, and much attention has still been paid to the synthesis of quinoline derivatives because of their pharmacological properties. Especially, the quinoline skeleton is found in many substances with industrial applications or biological activity.

An Expedient One-Pot, catalyst free reaction of appropriate aromatic aldehyde, morpholine amine, malononitrile in ethanol afforded 2-amino-6-morpholino-4-p-tolylquinoline-3-carbonitrile in good yield. The reaction proceeds via a condensation, elimination, addition, cyclization, dehydrogenization mechanism.



Keywords: Quinoline; one pot; malononitrile and aromatic aldehyde.*