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1-Aryl-5, 6-benzolepidinium salts condense with p-dimethylaminobenzaldehyde to give the corresponding quinostyryl dyes. The effects of various substituents at the para position of the N-phenyl group at the quinoline ring on the absorption spectra of the dyes synthesized are investigated. Steric hindrance in the molecules of the dyes is postulated.

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Reaction of 1 -alkyl and 1 -aryl-5, 6 -benzolepidinium quaternary salts with orthoformic ester in pyridine gives symmetrical 9 -carbocyanine dyes hitherto undescribed in the literature. The effects of substituents at the para position in the N-phenyl ring resemble the effects of the same in the heterocyclic ring, indicating that these substituents are conjugated with the latter. The molecules ...

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1-Alkyl- and 1-aryl-5, 6-benzolepidinium salts undergo cyanine condensation with 1-ethylquinolinium iodide in ethanol in the presence of basic condensation catalysts to give unsymmetrical monomethinecyanine dyes. The steric hindrance present in the molecules of these dyes is responsible for a low absorption intensity of ethanol solutions of these dyes.

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It is shown that formazan-type compounds can be synthesized by coupling diazonium salts with nitrogen containing N-aryllepidine salts. N-phenyllepidinium perchlorate is used to prepare 8 dyes of the...

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Abstract. In order to study the effects of OMe and OH groups at various positions in the benzene ring on the optical properties of dyes, 13 styrene-type dyes are prepared by condensing a number of 1-arylquinaldinium salts with, anisaldehyde, salicylaldehyde, -resorcyaldehyde, and 2,4-dimethoxybenzaldehyde in anhydrous pyridine or ethanol plus piperidine.

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Researches On Synthetic Dyes Springer The synthetic dye industry arose directly from studies of coal tar. By 1850 coal tar was an industrial nuisance because only a fraction was utilized as wood preservative, road binder, and a source of the solvent naphtha. Fortunately, it attracted the attention of chemists as a source of new organic ...

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Reaction of phenyl- β -naphthylamines with formaldehyde and acetone in the presence of HCl and nitrobenzene in butanol solution leads to cyclization involving the naphthalene and phenyl rings, and formation of N-aryllepidine salts. 15 lepidine and 5, 6-benzoepidine salts are synthesized and characterized by their UV absorption spectra, as well as by their picrates.

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Researches On Synthetic Dyes Springer Author: ecom.cameri.co.il-2020-11-06-22-01-19 Subject: Researches On Synthetic Dyes Springer Keywords: researches,on,synthetic,dyes,springer Created Date: 11/6/2020 10:01:19 PM

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Ten new dimethine dyes of the quinostyrene type are prepared by condensing -pyrrole aldehyde with various 1-arylquinaldinium salts. The absorption spectra of the new dyes are observed in the visible region in various neutral solvents. The dyes are shown to exhibit solvatochromism, and the spectroscopic data are analyzed.

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Researches On Synthetic Dyes Springer Abstract. In order to study the effects of OMe and OH groups at various positions in the benzene ring on the optical properties of dyes, 13 styrene-type dyes are prepared by condensing a number of 1-arylquinaldinium salts with, anisaldehyde, salicylaldehyde, -resorcyaldehyde, and 2,4-dimethoxybenzaldehyde in anhydrous pyridine or ethanol plus piperidine.

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Published: May 1967 Researches on synthetic dyes. LVI. Synthesis of bisazo dyes, derivatives of N-aryllepidine salts. G. T. Pilyugin 1

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In textile industry, unbound synthetic dyes are released through effluent, which shows awfully sharp effect on the health of different organisms including humans and the entire ecosystem. Though coloured textile industrial effluent has adverse effect on all types of biological network, it has direct effect on water ecosystem because of the general industrial sewage released in nearby water bodies.

Microbial Treatment for Removing Synthetic Dyes ... - Springer

In addition, natural dyes cannot produce the amount of colorant required to dye the amounts of fiber produced each year. In contrast, synthetic dyes of all classes and the processes used to apply them become ever more efficient and clean, and offer safe and cost-effective coloration for the world ' s textiles.

Sustainable Dyeing with Synthetic Dyes | SpringerLink

RESEARCH ARTICLE Open Access Experimental study of dye removal from industrial wastewater by membrane technologies of reverse osmosis and nanofiltration Mohammad Fadhil Abid1* , Mumtaz Abdulahad Zablouk1 and Abeer Muhssen Abid-Alameer2 Abstract Currently, biological method has been utilized in the treatment of wastewater -containing synthetic ...

RESEARCH ARTICLE Open Access Experimental study of dye ...

The book explores the environmental impact of dyes in a section that covers the physical, chemical, toxicological, and ecological properties of dyes and how these are used to assess their effect on the environment and to estimate whether a given product presents a potential hazard.

Dyes and Pigments | Springer for Research & Development

Cellulose acetates, although clearly cellulosic in structure, behave very differently to cotton and are dyed using hydrophobic dyes of the disperse type (Chapter 4). In a survey conducted in 1982, cotton production accounted for 42.8% (at 15.5 Mtons) of the total world fiber production. 1 Thus, cotton production equalled the total output of man-made fibers.

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