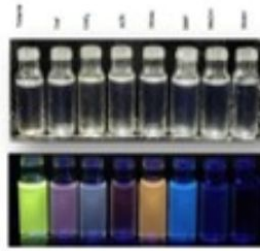


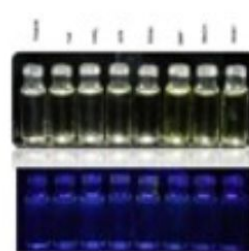
PENDING

(IN202311058896)

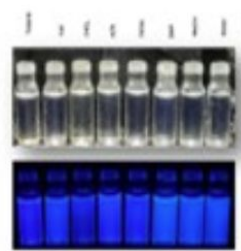
Synthesis of fluorescent vinylogous amino cyano aryls



m-ADCS (3b)



p-ADCS (3c)



2A3CQ (4)

NEED

Synthesis of luminescent materials with broad emission ranges is complex and requires expensive catalysts. A simpler, more cost-effective method is needed to produce high-quality compounds for use in advanced applications like optoelectronics and sensing.

TECHNOLOGY OVERVIEW

This invention offers a novel method for synthesizing vinylogous cyano aminoaryls (VinCAs) using a simplified process. By utilizing electron-donating and electron-accepting groups, the method creates luminescent materials with broad emission ranges. The process avoids costly catalysts, enabling efficient production.

TECHNOLOGY KEY FEATURES

Simple, cost-effective synthesis method for luminescent VinCAs; broad emission range; no expensive catalysts; suitable for optoelectronic and sensing applications; efficient reaction conditions with minimal steps.

[Read more here](#)

MARKET ANALYSIS

The global market for luminescent materials is projected to grow at a CAGR of 8.2% through 2033, driven by increasing demand in LED lighting, displays, and sensors (source: Market Research Future, 2023).

Target Industries

Optoelectronics, sensing technologies, material science, Optoelectronic manufacturers, sensor technology developers, material suppliers, and R&D firms in photonic devices and displays.

AT A GLANCE

- SDG 9 (Industry, Innovation, and Infrastructure), SDG 12 (Responsible Consumption and Production)

Technology is available for licensing/ co-development.

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