

Anti-counterfeiting CDs for solar power generation

Q-ID#174; provides a next-generation solution to verify the authenticity of solar panels and PV components. Suitable for PV modules, parts and packaging, Q-ID#174; makes authentication instant and traceable ...

A new concept for difficult-to-replicate security inks for use in advanced anti-counterfeiting applications is presented. Inks fabricated from a mixture of photoactive dyes result in a unique ...

With identical emission colors, a distinct uorescence lifetime fl of CDs can be generated, which suggests a promising approach to anti-counterfeiting using the CD-inks.

Here, we report multimodal, dynamic and unclonable anti-counterfeiting labels based on diamond microparticles containing silicon-vacancy centers.

Counterfeit parts may be a growing threat, but with IBS watching your back, you can move forward with confidence. Don't wait for a failure to expose counterfeit risk. Partner with IBS ...

In this review, the recent achievements in luminescence anti-counterfeiting are summarized, and the regulation of various factors to anti-counterfeiting labels is discussed.

A method of sequential spraying of polyvinyl alcohol with carbon quantum dots (PVA@CDs) aqueous suspension and SiO₂ aqueous suspension is proposed to rapidly prepare ...

In this work, a series of fluorescence anti-counterfeiting models of agarose hydrogels with different shapes were prepared by combing the three-mode fluorescence property of AC@CDs-Eu ...

In this study, using Kaempferide as a carbon source, we successfully prepared blue, green, and red fluorescent CDs, referred to as B-CDs, G-CDs, and R-CDs, respectively.

Carbon nanodots (CNDs) are emerging as promising next-generation anti-counterfeiting materials due to their tunable optical properties and compatibility with printable inks.

The resulting NaYF₄:Yb,Er@CDs nanocomposites have superior dual-mode luminescence properties, showing promising application prospects in the field of advanced optical anti-counterfeiting.

Web: <https://www.thehibiscuscoast.co.za>