



conductivity. Cross-sectional TEM and EDX elemental mapping were utilized to ...

In this work, multifunctional ammonium sulfide (AS) is attempted to modify PEDOT:PSS/perovskite interface. AS has multiple effects on different functional layers and the device as a whole: a) optimize the perovskite crystallization by the formation of PbS nucleation sites; b) neutralize the acidity of PEDOT:PSS by reaction with PSS ...

We report on the surface passivation of Type-II InAs/GaSb superlattice photodetectors using various ammonium sulfide solutions. Compared to unpassivated detectors, zero-bias resistance of treated 400 um $\times$ 400 um devices with 8 um cutoff wavelength was improved by over an order of magnitude to  $\sim 20$  k $\Omega$  at 80 K. Reverse-bias dark ...

Herein, a multifunctional additive 2-aminoethyl hydrogen sulfate (AES) is designed to regulate the film crystallization and thereby form flat and pinhole-free perovskite films. It is found that the introduction of AES can ...

Fungsi utama dari photocell adalah mengubah intensitas cahaya menjadi sinyal listrik. Photocell ini juga sering disebut sebagai Light Dependent Resistor (LDR) atau cadmium sulfide cell (CdS cell). Prinsip Kerja Photocell. Photocell menggunakan prinsip fotokonduktivitas untuk mengubah cahaya menjadi arus listrik. Di dalam photocell terdapat ...

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Ammonium sulfide is a food additive permitted for direct addition to food for human consumption, as long as 1) the quantity added to food does not exceed the amount reasonably required to accomplish its intended physical, nutritive, or other technical effect in food, and 2) when intended for use in or on food it is of appropriate food grade and is prepared and handled as a food ...

For cosmetics, ammonium sulfite is used as a hair straightening agent and a hair waving agent. [5] Ammonium based hair products have been made to replace sodium hydroxide-based products due to the destructive nature of sodium hydroxide on hair.. The most common food product with ammonium sulfite is caramel coloring E150d. According to the FDA, caramel coloring contains ...

This work reports on a systematic experimental study on the role of sulfide ammonium chemical treatment followed by dielectric coating (either silicon oxide or nitride) in the passivation effect of GaAs/AlGaAs nanopillars. Our results conclusively show that, under ambient conditions, the best surface passivation is achieved using ...

# Ammonium sulfide photocell

A cobalt-modified amorphous molybdenum sulfide (Co-MoS<sub>x</sub>) co-catalyst was prepared via in situ photoreduction ( $\lambda > 420$  nm), and its promotional effect on Co-MoS<sub>x</sub> on ...

In this paper, we obtain the kinetic parameters necessary for the design of a photoreactor for photolysis and photocatalysis of ammonium sulfite solution. For the case of ...

In this work, multifunctional ammonium sulfide (AS) is attempted to modify PEDOT:PSS/perovskite interface. AS has multiple effects on different functional layers and the ...

We report on a novel approach to engineer the surface of Se-based chalcogenide thin films at room temperature by direct exposure to ammonium sulfide (AS) vapors, serving as a sulfur ...

It uses the UV radiation to promote the photolytic oxidation of ammonium sulfite to produce hydrogen and ammonium sulfate. Here, Raman and inelastic neutron scattering spectra of (NH<sub>4</sub>)<sub>2</sub>SO<sub>3</sub>·H<sub>2</sub>O...

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