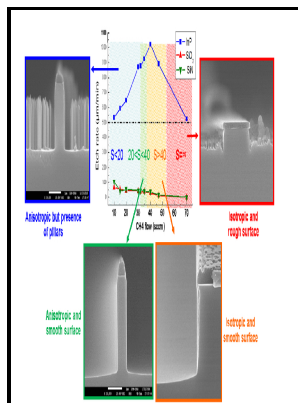


# Study of reactive ion etching of gallium arsenide in mixtures of methane and hydrogen plasmas

[Middlesex University] - Figure 5.20 from A study of reactive ion etching of gallium arsenide in mixtures of methane and hydrogen plasmas



Description: -

-study of reactive ion etching of gallium arsenide in mixtures of methane and hydrogen plasmas

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Notes: Thesis submitted in partial fulfilment of the requirements for the degree of Doctor of Philosophy.

This edition was published in 1992



Filesize: 16.89 MB

Tags: #Дисертації

**Summary abstract: A study of gallium arsenide and aluminum gallium arsenide reactive ion etching parameters — Houston Methodist Scholars**

When such  $\text{NH}_4\text{Fe}_2(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$  precursor samples were transformed to  $\text{FePO}_4$  products after sintering at  $650^\circ\text{C}$  for 10 h, the SEM images have clearly shown that both the precursor and the final product still retain their monodispersed spherical microstructures with similar particle size of about  $3\text{ }\mu\text{m}$  when the samples are synthesised at the optimised condition.

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But, the low temperature of hydrogen release is one of its problems. Control and over-expressing PsTrxO1 tobacco *Nicotiana tabacum* BY-2 cells were treated with  $35\text{ mM H}_2\text{O}_2$  and the effects were analysed by studying the growth dynamics of the cultures together with oxidative stress parameters, as well as several components of the antioxidant systems involved in the metabolism of  $\text{H}_2\text{O}_2$ .

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In addition, solvated electrons formed by NOM photolysis may reduce nitrate directly to nitrite.

**h2 plasma treatment: Topics by Science.gov**

A crystalline volume fraction of 68% is achieved with a substrate temperature as low as  $120^\circ\text{C}$ , which is of great interest to broaden the process window for solar cell applications. Prolonged exposure of {100} diamond surfaces to microwave hydrogen plasma was investigated by atomic force microscopy AFM.

**h2 plasma treatment: Topics by Science.gov**

This paper explores the effect of H<sub>2</sub>O<sub>2</sub> treatments on cyanobacteria and microcystins in natural samples from a hypertrophic reservoir in microcosm experiments. This was shown by the increase in the fractions of chlorophyll-a a proxy for phytoplankton and chlorophyll-b a proxy for green algae over total phytoplankton pigments and the decrease in the fraction of phycocyanin a proxy for cyanobacteria over total phytoplankton pigments. In summary, we have demonstrated low-threshold GaInNAs VCSELs operating continuous-wave at room temperature, with an emission wavelength of 1200 nm.

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RESULTS: RRs of cumulative healing rates for each comparison at 8 wk were: high dose vs standard dose H<sub>2</sub>RAs, 1. A central composite design CCD with response surface methodology RSM was applied to evaluate the relationships between operating variables, such as persulfate and H<sub>2</sub>O<sub>2</sub> dosages, pH, and reaction time, to identify the optimum operating conditions. Among the different classes of drinking water contaminants, toxic trace elements e.

#### **Дисертації:**

An optimum molar ratio between hydrogen peroxide and parathion was determined to be between 300 — 400.

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