



# Effect of solution molarity on the structural, optical, electrical and photo-response properties of SILAR-deposited ZnO films

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Received: 20 July 2022  
Accepted: 30 October 2022  
Published online: 20 January 2023

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## ABSTRACT

Cost effective SILAR method was employed to deposit ZnO thin films on glass substrates for thin film UV photodetector applications. The dependence of the film properties such as structure, morphology, optical and electrical properties on the cationic precursor molarity is investigated in detail. When the solution molarity was increased from 0.1 M to 0.2 M, the crystallite size was found to increase by 270%. It was noted that the films had nearly stoichiometric composition. The SEM images revealed the presence of rod or needle-like structures in the films. The optical energy band gap of the films is slightly modified while the PL spectra showed reduced defect states and enhanced UV emission at higher molarities. The samples responded strongly to wavelengths in the near ultraviolet region. A 1400 times increase was observed in the current upon the UV illumination. The films exhibited persistent photocurrent.

## 1 Introduction

Currently, many wide bandgap thin film photodetectors are being extensively investigated due to their relatively superior spectral response characteristics in the UV region. Among them, Zinc Oxide (ZnO) seems to be one of the most promising candidates as it has the potential to replace other expensive wide bandgap semiconductor photodetectors such as GaN due to its low-cost of synthesis and simpler fabrication technology. The wide band gap of ZnO enables it to operate effectively in the UV region besides having

large transparency in the visible region. [1, 2] Apart from this, it shows several distinctive properties such as large exciton binding energy of 60 meV, which is higher than most other semiconductors. Being very abundant in nature, ZnO is a relatively low-cost material that can be deposited using simple deposition methods. It is a non-toxic and eco-friendly material with high electron mobility and good thermal and chemical stability [1–4].

However, ZnO also exhibits a well-known phenomenon called persistent photoconductivity (PPC). When energy of the incident photons exceeds the

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500 mosmol/kg or higher fluid restriction alone may be insufficient to correct hyponatremia

**hyponatremia diagnosis and treatment mayo clinic** - Jan 10 2023

web may 17 2022 if you have moderate chronic hyponatremia due to your diet diuretics or drinking too much water your doctor may recommend temporarily cutting back on fluids he or she may also suggest adjusting your diuretic use to increase the level of sodium in your blood if you have severe acute hyponatremia you'll need more aggressive treatment

hyponatremia guidelines guidelines summary medscape - Jun 15 2023

web aug 18 2022 mild serum sodium concentration 130-135 mmol/L moderate serum sodium concentration 125-129 mmol/L severe serum sodium concentration 125 mmol/L acute documented as lasting 48 h chronic

milliman criteria for hyponatremia orientation sutd.edu - Sep 06 2022

web milliman criteria for hyponatremia orientation sutd.edu sg author fabio graebner orientation sutd.edu sg subject milliman criteria for hyponatremia orientation sutd.edu sg keywords observation care high value care or a cost shifting a pharmacogenetic versus a clinical algorithm for warfarin created date 5/22/2023

*diagnosis and treatment of hyponatremia compilation of the* - May 14 2023

web feb 7 2017 hyponatremia serum sodium  $s_{Na}$  136 mmol/L is a common water balance disorder that often poses a diagnostic or therapeutic challenge 1 this may explain why management of hyponatremia is still suboptimal as also recently illustrated by a hyponatremia registry 2 hyponatremia is not a disease but rather a pathophysiologic

*hyponatremia emcrit project* - Mar 12 2023

web jun 25 2021 hypovolemic hyponatremia due to extra renal volume loss hypervolemic hyponatremia e.g. heart failure cirrhosis intermediate urine sodium 20-40 meq/L this represents a grey zone provides no clear information high urine sodium 40 meq/L suggests euvoletic hyponatremia SIADH or adrenal insufficiency

**milliman criteria for hyponatremia** - May 02 2022

web 2 milliman criteria for hyponatremia 2022 07 27 centred multidisciplinary approach to study and the synthesis of knowledge the new 2nd edition of problem based behavioral science and psychiatry integrates DSM-5 updates and diagnostic criteria and is fully consistent with PBL models and methods building on the strengths of the

*difficulties in the diagnosis and management of hyponatremia* - Feb 11 2023

web oct 20 2016 hyponatremia serum  $Na$  levels of 135 meq/L is the most common electrolyte imbalance encountered in clinical practice affecting up to 15-28% of hospitalized patients 1 its incidence varies between hospitals and departments with a frequency of 36% in internal medicine department very similar to that found in surgical or intensive

the screening score of mini nutritional assessment mna is a - Feb 28 2022

web mar 4 2020 results in this cohort of 216 patients mortality was 27.3% at a follow up of 750-350 days the mean mna score

score was 9 9 1 8 with 30 1 59 3 and 10 6 of patients categorized as having normal nutritional status at risk for malnutrition and malnourished respectively