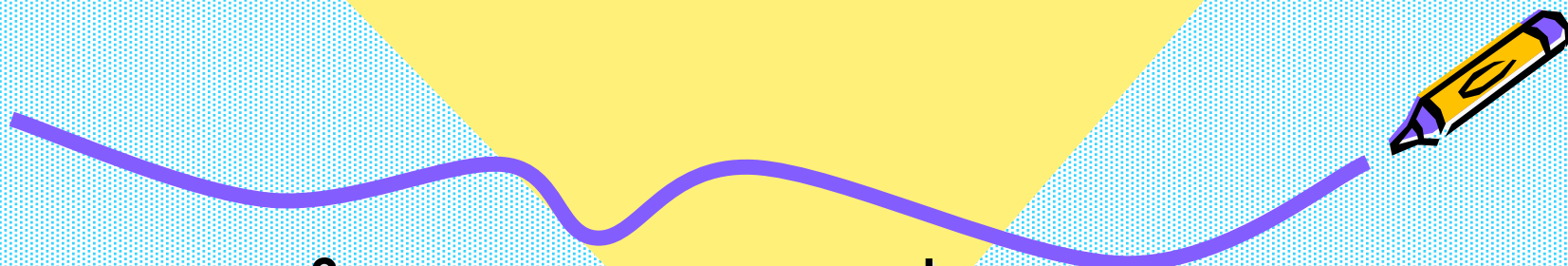


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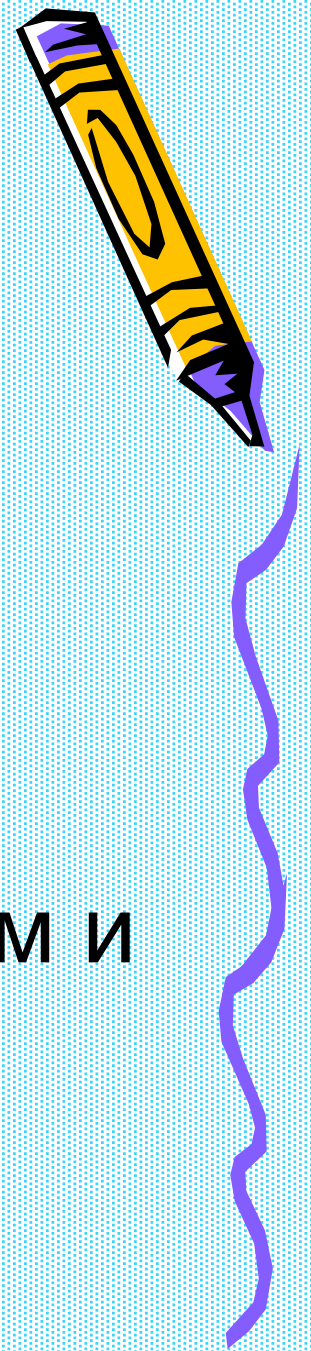


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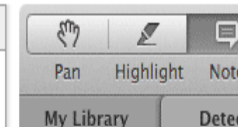
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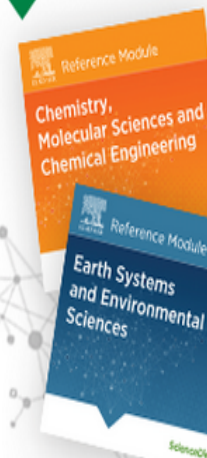
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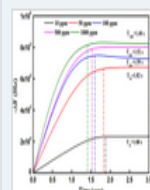
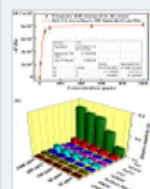
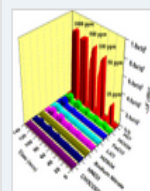
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^a Materials Research Laboratory, Department of Physics, Tezpur University, Tezpur 784028, Assam, India

^b Girijananda Chowdhury Institute of Management and Technology (GMT), Kunderbari, Dekargaon, Tezpur 784501, Assam, India

Abstract

The present study reports the fabrication of a polyaniline (PANI) coated quartz crystal microbalance sensor for the detection of hydrochloric acid (HCl) in an aqueous environment with equal applicability in laboratory and field. The detection system based on the measurement of mass change of the modified quartz crystal relies on the high dissociating ability of HCl and efficient protonation of PANI and the rapid insertion of Cl⁻ counterions to maintain charge neutrality. This results in a highly sensitive and selective HCl sensor over several common mineral acids, salts, and anions. This portable, simple and cost-effective sensing system provides rapid detection of HCl at concentrations as low as 10 ppm (far below the hazard limit) in natural water systems with response times

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Prof. Ashok Kumar received his M.Tech. and Ph.D. from IIT Kanpur in Materials Science. He has published more than seventy papers in reputed national and

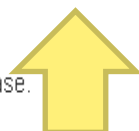
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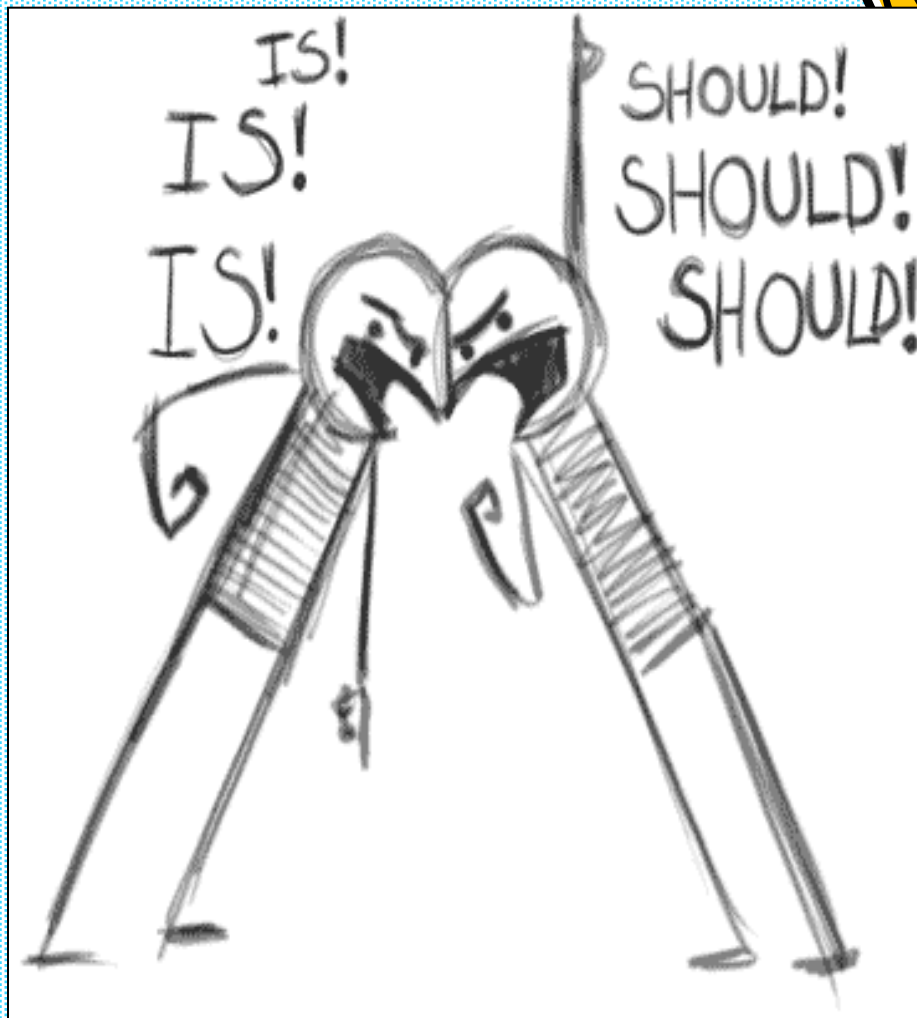
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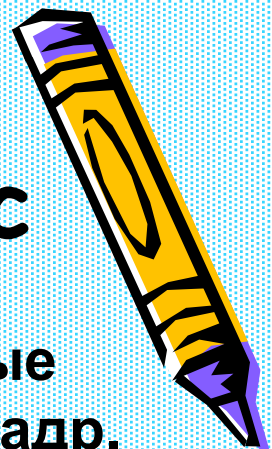
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2.5. Scanning electron microscopy

2.6. Experimental design

2.6.1. Experiment 1: morphology of the canine ZP surface

2.6.2. Experiment 2: effect of oocyte viability on ZP structure

2.6.3. Experiment 3: effect of COC quality on ZP structure

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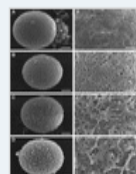


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Theriogenology

Volume 80, Issue 5, 15 September 2013, Pages 498–506



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Distinct subtypes of zona pellucida morphology reflect canine oocyte viability and cumulus-oocyte complex quality

Matthew O. Lunn, Shirley J. Wright

Department of Biology, University of Dayton, Dayton, Ohio, USA

Abstract

The aim of this study was to analyze surface morphology of zona pellucida (ZP) in relation to oocyte viability, cumulus-oocyte complex (COC) quality and canine oocyte viability. Canine ovaries were sliced to release COCs for use in vitro. High-quality (grade I) COCs were viewed with scanning electron microscopy (SEM). Four zonae, classified as types I, II, III, and IV, were detectable on high-quality oocytes. Most (95.5%) dog donors had oocytes with two or three ZP types. The ZP type I had a smooth compact surface with few pores. The ZP type II was less compact with many distinct circular or elliptical pores. The ZP type III had a rough surface with folds and many irregular shaped pores and hollows. The ZP type IV also had a rough surface with folds, but in addition, stringy filaments obscured the pores and hollows. The frequency of ZP type I in the oocyte population was low (2.7%), whereas ZP types II, III, and IV each occurred in approximately one-third of the oocyte population. In Experiment 2, oocytes from high-quality COCs were stained with propidium iodide (PI) before scanning electron microscopy to investigate the relationship of oocyte viability with ZP morphology. In Experiment 3, oocytes were collected from low-quality (grade 2) and high-quality (grade 1) COCs to investigate the role of COC quality on zona structure. Zonae types I and II were characteristic of PI-positive (dead) oocytes and oocytes from low-quality COCs, whereas ZP types III and IV were prevalent on

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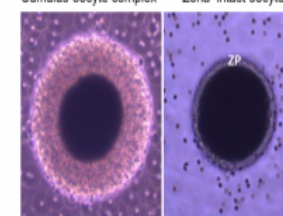
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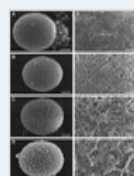


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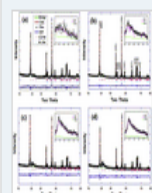
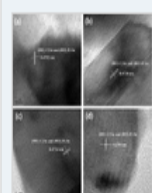
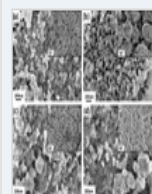


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Journal of Power Sources

Volume 247, 1 February 2014, Pages 219–227

**Optimal microwave-assisted hydrothermal synthesis of nanosized $x\text{Li}_2\text{MnO}_3 \cdot (1-x)\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ cathode materials for lithium ion battery**Xiaowei Miao^{a,b}, Yuan Yan^b, Chunguang Wang^b, Leilei Cui^a, Jianhui Fang^a, Gang Yang^b^a Department of Chemistry, Shanghai University, Shanghai 200444, China^b Jiangsu Lab of Advanced Functional Material, Changshu Institute of Technology, Changshu 215500, China**Highlights**

- $x\text{Li}_2\text{MnO}_3 \cdot (1-x)\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ rapidly synthesized
- The sample appears spherical morphology composed of
- Discharge capacity reaches to 325 mA h g^{-1} at 0.1 C and
- MH temperature and time play important roles in electro

Abstract

Li-rich layer-structure $x\text{Li}_2\text{MnO}_3 \cdot (1-x)\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ ($x = 0.2, 0.4, 0.6, 0.8$) cathode materials have been synthesized by co-precipitation and microwave hydrothermal (4 L) method in a short time (< 60 min).

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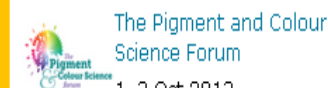
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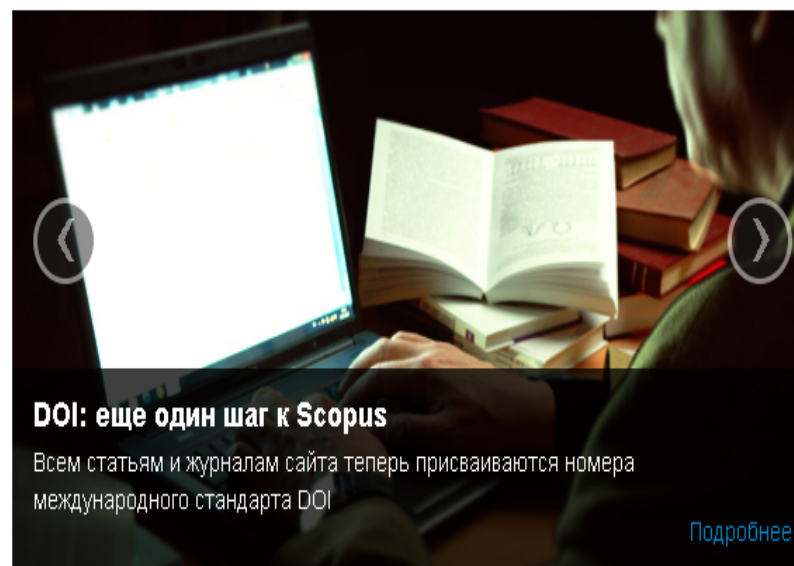
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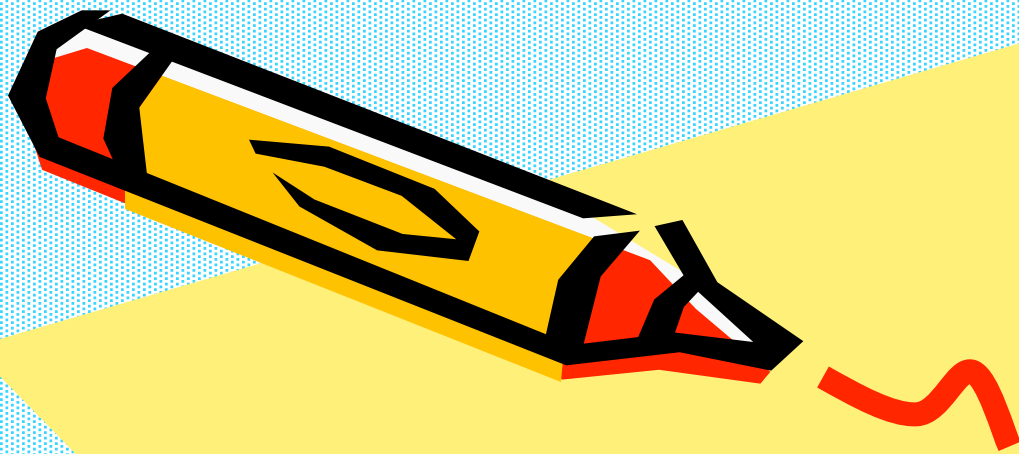
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