

## OPTIMIZATION OF LITHIUM IRON ORTHOSILICATE ELECTRODES SYNTHESIZED VIA VARIOUS METHODS

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**Abstract:** - Lithium iron orthosilicate (Li<sub>2</sub>FeSiO<sub>4</sub>) has attracted tremendous attention from the researchers due to its high theoretical capacity (140 mAh/g) for use in Li-ion batteries [1-4]. The Li<sub>2</sub>FeSiO<sub>4</sub> material exhibits good environmental stability, it is considered as a promising anode material for lithium-ion batteries [1-4]. Lithium iron orthosilicate material was obtained by four different methods viz., solid state, polyol, sol-gel, and co-precipitation. The XRD patterns of the as-prepared cathode material by aforementioned methods are shown. It can be seen that most of the peaks belonging to Li<sub>2</sub>FeSiO<sub>4</sub> are present here. The XRD patterns of the samples obtained by solid state, polyol, and sol-gel methods are almost identical. The surface morphology of as-prepared material has been studied by scanning electron microscopy. From these different routes, sample obtained via the polyol route possess good crystallites with negligible impurity among other samples studied. Moreover, Polyol route is a low-temperature process, which is able to control some parameters of synthesis of nano-particles such as size, shape and morphology, etc. Therefore, it is revealed that polyol is the best method to synthesize lithium iron orthosilicate.

**Key Words:** solid state synthesis, sol-gel synthesis, lithium iron orthosilicate, polyol synthesis, cathode material.

## 1. INTRODUCTION

Lithium iron batteries (LiFeO<sub>3</sub>) have been widely used in daily life such as mobile phones, laptops, etc. Cathode material play a significant role in improving electrochemical performance and for reducing the cost of the whole cell. For potential applications, many kinds of cathode materials with high capacity, large energy density, and low toxicity are required [5-8]. Lithium iron batteries mostly rely on lithium iron mixed oxide, such as LiCoO<sub>2</sub>, LiMnO<sub>2</sub>, and LiMn<sub>2</sub>O<sub>4</sub>. However, some issues including safety, toxicity and cost of these materials limit their use in practical applications and large-scale applications, such as hybrid-electric vehicles. Therefore, many efforts have been made to find alternative cathode materials for lithium-ion batteries [9]. Regarding this, lithium iron orthosilicate (Li<sub>2</sub>FeSiO<sub>4</sub>) is the

one, the Ni, etc.) have successfully synthesized and characterized as potential cathode materials for lithium ion batteries (LIBs). Different three routes to synthesis metal-phosphate salts have only one lithium ion per formula unit, Li<sub>2</sub>FeSiO<sub>4</sub> has two lithium ions per formula unit, suggesting a higher theoretical capacity than phosphate [7-8]. However, as a potential cathode material, Li<sub>2</sub>FeSiO<sub>4</sub> also suffers from the low intrinsic electronic conductivity and the slow diffusion of lithium ions. Therefore, tremendous efforts have been made to solve this problem, such as carbon incorporation, particle size reduction, and several doping to improve electrochemical property of Li<sub>2</sub>FeSiO<sub>4</sub>. In this paper, Lithium iron orthosilicate cathode material was obtained by four different methods like, solid state, polyol, sol-gel, and co-precipitation. The as-prepared cathode materials were characterized by XRD, FTIR, Raman, and SEM.

## 2. EXPERIMENTAL

The cathode materials were synthesized by various methods, they are Solid state reaction, Sol-gel method, Polyol technique, and Co-precipitation method.

### 2.1. Solid state synthesis:

The stoichiometric amounts of Lithium carbonate, Iron carbonate, Silica dioxide and Chloro acetic monohydrate were used as the starting materials. The starting materials were ground for 1 hour using mortar and pestle. Then the precursor was calcined at 800 °C for 24 hours under Ar atmosphere. Finally we obtain the final product of the material.

### 2.2. Sol-gel synthesis:

The Li<sub>2</sub>FeSiO<sub>4</sub> was prepared by sol-gel method based on stoichiometric. Analytical reagents, CH<sub>3</sub>COOH, Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> and acetyl acetone in a molar ratio of 2: 1: 0.25 were used as starting materials. CH<sub>3</sub>COOH and Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> were first dissolved in distilled water. A saturated

# Solidstate Photoemibion And Related Methods

**VM Jensen**

## **Solidstate Photoemission And Related Methods:**

Solid-State Photoemission and Related Methods Wolfgang Schattke,Michel A. Van Hove,2003-11-21 Photoemission is one of the principal techniques for the characterization and investigation of condensed matter systems The field has experienced many developments in recent years which may also be put down to important achievements in closely related areas This timely and up to date handbook is written by experts in the field who provide the background needed by both experimentalists and theorists It represents an interesting framework for showing the connection between theory and experiment by bringing together different concepts in the investigation of the properties of materials The work addresses the geometric and electronic structure of solid surfaces and interfaces theoretical methods for direct computation of spectra experimental techniques for data acquisition and physical models for direct data interpretation It also includes such recent developments as full hemisphere acceptance in photoemission two electron photoemission e 2e electron diffraction and photoelectron electron hole interaction

**A Primer in Photoemission** Antonio Tejeda,Daniel

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Acta Physica Polonica ,2005 *Spectroscopic and Structural Studies of Strongly Correlated Oxides* Norman Mannella,2003

**Methods of Experimental Physics**

Robert L. Park,Max G. Lagally,1985 Electronic Correlation Mapping J. Berakdar,2006 An up to date selection of applications of correlation spectroscopy in particular as far as the mapping of properties of correlated many body systems is concerned The book starts with a qualitative analysis of the outcome of the two particle correlation spectroscopy of localized and delocalized electronic systems as they occur in atoms and solids The second chapter addresses how spin dependent interactions can be imaged by means of correlation spectroscopy both in spin polarized and extended systems A further chapter discusses possible pathways for the production of interacting two particle continuum states After presenting some established ways of quantifying electronic correlations and pointing out the relationship to correlation spectroscopy the author addresses in a separate chapter the electron electron interaction in extended systems and illustrates the ideas by some applications to fullerenes and metal clusters The last two chapters are devoted to the investigation of the potential of two particle spectroscopy in studying ordered surfaces and disordered samples Throughout the book the material is analyzed

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**Proceedings of the International Symposium on Atomic, Molecular, and Solid-State Theory, Collision Phenomena, Quantum Statistics, and Computational Methods, Held at Flagler Beach, Florida, March 10-20, 1980**

Per-Olov Löwdin,Yngve Öhrn,1980 **Synchrotron Radiation Research: Techniques** Robert Z. Bachrach,1992 The first of a two volume set differing from other treatments of synchrotron radiation by a narrow focus on surface science developments Techniques are covered in four sections after an overview on absorption photoemission spectroscopy ion spectroscopy and diffraction and scattering Annotatio **Journal of the Physical Society of Japan**,2018 *Proceedings of the 8th International Conference on Vacuum Ultraviolet Radiation Physics* Per-Olof Nilsson,Joseph Nordgren,1987

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