

## **Project Scientist (Middle level) biodata:**

**a. Name:**

Pavan Srinivas Veluri

**b. Qualifications:**

B.Sc (Chemistry, PCU), M.Sc. (IITB), Ph.D in Lithium-ion batteries (IITB)

**c. Designation:**

Project Scientist (Middle level)

**d. Contact information:**

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**e. Experience:**

6 years of research experience broadly in the avenues of material synthesis, electrode preparation, cell fabrication and electrochemical analysis in the field of Lithium-ion batteries. Worked as a project engineer at National Centre for Photovoltaic Research and Education (NCPRE) at IIT-Bombay, India from February-July 2017.

I have been attached to International Advanced Research centre for Powder Metallurgy and New Materials (ARCI) Hyderabad, India as a project scientist (Middle level) since August 2017.

**f. Research areas of interest:**

- Lithium-ion batteries
- Nanostructured materials for energy storage
- Advanced materials for lithium and sodium-ion batteries
- High voltage cathode materials for lithium-ion batteries

**g. List of journal publications:**

1. **P. S. Veluri** and S. Mitra, "Enhanced high rate performance of  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanotubes with alginate binder as a conversion anode", **RSC Advances**, **2013**, **3**, **15132-15138**.
2. SN Beznosov, **PS Veluri**, MG Pyatibratov, A Chatterjee, DR MacFarlane, O. Fedorov and S, Mitra, "Flagellar filament bio-templated inorganic oxide materials-towards an efficient lithium battery anode", **Scientific Reports**, **2015**, **5**, **7736**.

3. **P. S. Veluri**, A. Shaligram and S. Mitra, "Porous  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanostructures and their lithium storage properties as full cell configuration against LiFePO<sub>4</sub>", **Journal of Power Sources**, **2015**, **293**, 213-220.
4. **P. S. Veluri** and S. Mitra "Iron phosphide (FeP) synthesis, and full cell lithium-ion battery study with a [Li (NiMnCo) O 2] cathode", **RSC Advances**, **2016**, **6**, 87675-87679.
5. **P. S. Veluri** and S. Mitra "Conversion Anode and Intercalation Cathode Based High Rate Capable Full cell for Practical Lithium-ion Battery Applications", **ChemElectroChem**, **2017**, **4**, 686-691.
6. Sergei N. Beznosov, Michael G. Pyatibratov, **Pavan Srinivas Veluri**, Sagar Mitra, and Oleg V. Fedorov, "A way to identify archaeellins in halobacterium salinarum by flagella tagging", **Central European Journal of Biology**, **2013**, **8(9)**, 828-834.
7. Uttam Kumar Sen, Sudeep Sarkar, **Pavan Srinivas Veluri**, Shivani and Sagar Mitra, "Nano Dimensionality: A way towards better Li-ion storage", **Nanoscience and Nanotechnology Asia**, **2013** [Invited Review article]
8. S. Mitra, **P. S. Veluri**, A. Chakraborty and R. K. Petla, "Electrochemical Properties of Spinel Cobalt Ferrite Nanoparticles with Sodium Alginate as Interactive Binder", **ChemElectroChem**, **2014**, **1**, 1068-1074.
9. S. Sarkar, **P. S. Veluri**, and Sagar Mitra, "Morphology controlled synthesis of layered NH<sub>4</sub>V<sub>4</sub>O<sub>10</sub> and the impact of binder on stable high rate electrochemical performance", **Electrochimica Acta**, **2014**, **132**, 448-456.

**h. List of patents:**

1. **Pavan S. Veluri** and Sagar Mitra, “Conversion anode and intercalation cathode based high rate capable full cell for lithium ion battery”, **Indian Patent (Application No.201621027395) dt. 11 August 2016.**

**i. Conferences:**

1. **Pavan Srinivas Veluri** and Sagar Mitra, 4<sup>th</sup> International Symposium on Energy and Environment: ACCESS [MAGEEP], **December 9-12, 2012, Mumbai, India.**
2. S. Mitra, U. K. Sen, A. M. Tripathi, **P. S. Veluri**, Lithium-ion storage: Advanced High Rate and Energy Anode materials, 37<sup>th</sup> International Conference and Exposition on Advanced Ceramic and Composites (**ICACC**), **2013, FL, USA, 27 January-1<sup>st</sup> February, 2013.**
3. **Pavan Srinivas Veluri** and Sagar Mitra, International conference on Nanotechnology, Nanomaterials and thin films for energy applications (**NANOENERGY**), **February 19-21, 2014, London, UK.**

**j. Photograph:**

