

## Anchali Jain

Female, 28 years; Languages: English and Hindi  
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## EDUCATIONAL QUALIFICATIONS

Course/Examination/Stream	Institute/University	Year	Performance
Ph.D. in Applied Physics	Department of Applied Physics, Delhi Technological University	2018-present	Pursuing
UGC-NET	University Grants Commission of India	June-2019	Cleared
Master of Science(H) in Electronics	Department of Electronics, University of Delhi	2014-2016	82.26%
Bachelors of Science(H) in Electronics	Shaheed Rajguru College of Applied Sciences for Women, University of Delhi	2011-2014	86.70%
Schooling CBSE (Science) (12 <sup>th</sup> )	BNPS School, Delhi	2011	78.40%
Schooling CBSE (10 <sup>th</sup> )	NVM School, Delhi	2009	73.8%

## WORK EXPERIENCE

### ZeroSaver (April'22-Present)

#### Renewable Energy Engineer

Working as a Renewable Energy Engineer in the newly operational project 'Zero Saver' which focuses on the synergy between the Indian and Australian market w.r.t. the current renewable sources available for business opportunities.

### Delhi Technological University (formerly DCE) (August'18-Present)

#### Research Scholar

My research is based on the "Synthesis and Electrochemical Studies of Spinel type anode materials for lithium-ion batteries". Study of electrode materials appropriate to replace traditional graphite using various synthesis routes are done. Hands on experience on the fabrication of coin-cells and good knowledge of electrochemical testing modules such as cyclic voltammetry (CV), electrochemical impedance spectroscopy (EIS), galvanostatic charge-discharge (GCD) and many more. Also, assist university students with their project work and lab experiments. By far have published one research article and one book chapter.

### Amity University (April'17- July'18)

#### Project Assistant

During my term, I learnt about the Electrochemistry of Lithium-ion batteries (LIBs) and performed experiments to synthesized electrode nanomaterials for LIBs via different routes. Studied how to use the characterization techniques such as X-ray diffraction (XRD), Scanning electron microscopy (SEM) among others.

## PUBLICATIONS AND CONFERENCES

- Anchali Jain<sup>a</sup>, Amrish K. Panwar<sup>a,\*</sup>, Pawan K. Tyagi<sup>a</sup>, Effect of Cr doping on Li<sub>2</sub>ZnTi<sub>3</sub>O<sub>8</sub> as alternative anode material to enhance electrochemical properties of lithium-ion batteries, **Applied Physics A. (IMPACT FACTOR: 2.584) (Published)**.
- Anchali Jain<sup>\*</sup>, Baboo Joseph Paul<sup>\*</sup>, Sungjin Kim, V. K. Jain, Jaekook Kim, Alok Kumar Rai, Two-dimensional porous nanoplate of NiCo<sub>2</sub>O<sub>4</sub> as anode material for high-performance rechargeable lithium-ion battery, **Journal of Alloys and Compounds (IMPACT FACTOR: 4.175) (Published)**.
- Anchali Jain<sup>a</sup>, Amrish K. Panwar<sup>a,\*</sup>, Pawan K. Tyagi<sup>a</sup>, Structural, Morphological, and Electrochemical Studies of Complex Spinal titanate Li<sub>2</sub>ZnTi<sub>3</sub>O<sub>8</sub>, Proceedings of the International Conference on Atomic, Molecular, Optical & Nano Physics with Applications, **Springer (Published)**.
- Anchali Jain<sup>a</sup>, Amrish K. Panwar<sup>a,\*</sup>, Pawan K. Tyagi<sup>a</sup>, Synthesis, characterization, and electrochemical investigation of citric-acid assisted nickel manganese oxide as anode material, **MRS Advances (Communicated)**.
- Poster presentation in the International Conference on Atomic, Molecular, Optical and Nano Physics with Applications (CAMNP-2019) held at Delhi Technological University, Delhi.

- Oral paper presentation in the International Conference on Advances in Smart Materials & Emerging Technologies (ASMET-2021) held at Indra Gandhi Technical University for Women, Delhi.

#### **AWARDS AND HONOURS**

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- **3rd Rank**, B.Sc. Electronics (H) in Delhi University (2011-2014).
- **2nd Rank**, B.Sc. Electronics (H) in Shaheed Rajguru College of Applied Sciences for Women (2011-2014).

#### **SKILLS & INTERESTS**

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- **Working knowledge of** C++, UNIX, Ms-Office, Open Office, Microsoft Windows, SCILAB, MULTISIM, Microprocessors, MATLAB, COMSOL, ORIGIN.