## PERSONAL INFORMATION

# Dr. Shabir Ahmad Akhoon

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| Date of Birth | : 28/02/1984 |
| Marital Status | : Married |
| Nationality | : Indian |
| Known Languages | : English, urdu, Hindi, Kashmiri |

## EXPERIENCE

**National Institute of Technology Srinagar** *Sep 2009 - Dec 2011*
Lecturer
Teaching of physics at engineering level

**National Institute of Technology Srinagar** *May 2012 - May 2017*
Teaching assistant
Teaching of physics at engineering level

**University of Kashmir** *June 2017 - Till date*
Assistant professor
Teaching of physics at graduate level

## EDUCATION

**National Institute of Technology Srinagar**
Doctor of Philosophy
2018

**University of Kashmir**
Masters of science in Physics
2009

**University of Kashmir**
Bachelor of education
2011

## ACHIEVEMENTS & AWARDS

PUBLICATIONS:

Khan, R. A., Akhoon, S. A., Vijayaraghavan, G. V., Rubab, S., Shah, M. A., Arul, K. T., & Dong, C. L. (2022). The novel LiMn1. 8Al0. 2O4 nanosheets for high energy and power density supercapacitor cathode applications. Ionics, 28(10), 4805-4815.

Khan, R. A., Akhoon, S. A., GV, V., Rubab, S., Kumaravelu, T. A., & Dong, C. L. (2022). Al-doped LiMn2O4 nanostructures for environmentally benign supercapacitor applications. Materials Technology, 1-10.

Akhoon, S. A., Sofi, A. H., Rubab, S., & Shah, M. A. (2017). Enhanced Structural and Electrochemical Properties of LiMn 2 O 4 Nanocubes. Journal of Electronic Materials, 46(2), 992-998.

Akhoon, S. A., Rubab, S., & Shah, M. A. (2017). Enhanced cycling properties and better rate capabilities of Al-doped LiMn2O4 nanorods and nanospheres. Materials Research Express, 4(10), 105016.

Akhoon, S. A., Rubab, S., & Shah, M. A. (2017). A Review of Various Nanostructures to Enhance the Efficiency of Solar-Photon-Conversions. In Renewable and Alternative Energy: Concepts, Methodologies, Tools, and Applications (pp. 197-225). IGI Global.

Akhoon, S. A., Rubab, S., & Sachin, K. C. (2016). Oxidative-Etching Modified Sol–Gel Synthesis of ZnO Nanorods. Advanced Science Letters, 22(1), 212-215

Akhoon, S. A., Rubab, S., & Shah, M. A. (2015). A benign hydrothermal synthesis of nanopencils-like zinc oxide nanoflowers. International Nano Letters, 5(1), 9-13.

Shah, Mohammad Ashraf., Sofi, Ashaq Hussain., Sibuea, M. Rosalinda., Akhoon, Shabir Ahmad., Rather, Asloob Ahmad., Nahvi, Ishaq (2014). "A Study of Magnetic Behaviour for Nanoparticles." American Journal of Nanomaterials, 2,(1), 1-3.

Conferences

Akhoon, S. A., Rubab, S., & Shah, M. A. (2013). Nanostructured cathodes for LiIon batteries: Synthesis and Application. Regional science congress (ISCA) and 9th J&K Science Congress, Vol. 1, PHY-7, p. 288.

Rubab, S., Akhoon, S. A. (2014). Oxidative-Etching Modified Sol–Gel Synthesis of ZnO Nanorods. International Conference on Emerging Materials and Characterization and Application.

Akhoon, S. A., Rubab, S., Sachin, K. C., Sofi, A. H., Sheikh. S. A., & Shah. M. A. (2016). Enhanced structural and optical properties of ZnO nanorods synthesized via a modified sol-gel method. *International Conference on Nanotechnology for Better Living.* Vol. 3, No. 1, p. 43, DOI: 10.3850/978-981-09-7519-7nbl16-rps-43.

Akhoon, S. A., Rubab, S., & Shah. M. A. (2017). Template free synthesis of $LiMn_2O_4$ nanocubes. *Internatonal Conference on Advanced Rechargeable Batteries and Allied Materials.* Vol. 1, p. 52.

Akhoon, S. A., Rubab, S., & Shah. M. A. (2017). One pot synthesis of highly efficient, Al-doped $LiMn_2O_4$ nanorods as cathodes for lithium ion batteries. *Growth Points in Physics (GPP-2017)*. p. 06.

Akhoon, S. A., Rubab, S., & Shah. M. A. (2018). World's energy concerns and the future role of renewable energy conversion and storage devices. *Role of Saha in growth of Physics (2018)*.

Awards

*International Conference on Nanotechnology for Better Living.* Vol. 3, No. 1, p. 43, DOI: 10.3850/978-981-09-7519-7nbl16-rps-43. (**3RD Prize)**

*Internatonal Conference on Advanced Rechargeable Batteries and Allied Materials.* Vol. 1, p. 52. (**3RD Prize**) Projects:

"Detection of neutrons using $BF_3$ proportional counter" at Bhaba atomic research centre (BARC), Srinagar, under the supervision of Prof. M. Sabiuddin (Nuclear Research Laboratory, BARC, Srinagar).

"Cathode materials for Li-Ion battery and synthesis of LiMn2O4" at Centre for materials for electronics technology, Pune, India, under the supervision of Dr. Bharat B. Kale (Scientist and Head; Nanocomposite Laboratory, CMET, Pune).

Participations and organization activities:

"National Workshop on Advances in Astronomy and Astrophysics" (2009), November 6, 2009.

"Two-Day short term course on Research Methodology in Nano Sciences" (2011), December 9-10, 2011.

"International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials" (ICWNCN-2012), March 13-16, 2012.

"Inspire Science Camp at National Institute of Technology Srinagar, 2012", March 17-21, 2012.

"Inspire Science Camp at National Institute of Technology Srinagar, 2012", May 1923, 2012

"Recent trends in Material Science Research" (RTMSR-2012), September 3-5, 2012.

"National Mission on Education through Information Communication Technology Awareness Workshop" (NME-ICT, 2013), June 19, 2013.

"National Conference on Nanomaterials and Devices" (NCONAD-2013), October 35, 2013.

"National conference on Advances in Materials and Materials Processing" (AMMP2015), May 22-23, 2015.

Journal Reviewer:
"Journal of Saudi Chemical Society"