

PERSONAL INFORMATION



Dr. Shabir Ahmad Akhooon

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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

Lecturer

Teaching of physics at Engineering 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:

Akhooon, 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.

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

Akhooon, 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.

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

Akhooon, S. A., Sofi, A. H., Rubab, S., & Shah, M. A. (2017). Enhanced Structural and Electrochemical Properties of LiMn₂O₄ Nanocubes. Journal of Electronic Materials, 46(2), 992-998.

Akhooon, 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.

Conferences

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

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

Akhood, 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.

Akhood, S. A., Rubab, S., & Shah. M. A. (2017). Template free synthesis of LiMn₂O₄ nanocubes. *International Conference on Advanced Rechargeable Batteries and Allied Materials*. Vol. 1, p. 52.

Akhood, S. A., Rubab, S., & Shah. M. A. (2017). One pot synthesis of highly efficient, Al-doped LiMn₂O₄ nanorods as cathodes for lithium ion batteries. *Growth Points in Physics (GPP-2017)*. p. 06.

Akhood, 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**)

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

Projects:

"Detection of neutrons using BF₃ 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 19-23, 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 3-5, 2013.

“National conference on Advances in Materials and Materials Processing” (AMMP-2015), May 22-23, 2015.

Journal Reviewer:

“Journal of Saudi Chemical Society”