

List of Publications

International Journals:

1. **Onkar Nath Verma**, Nitish Kumar Singh, Raghvendra and Prabhakar Singh, "Study of ion dynamics in lanthanum aluminate probed by conductivity spectroscopy", RSC Advances, 2015,5, 21614-21619.
2. **Onkar Nath Verma**, Priyanka A. Jha, Anand Melkeri, Prabhakar Singh, "A comparative study of aqueous tape and pellet of $(\text{La}_{0.89}\text{Ba}_{0.01})\text{Sr}_{0.1}\text{Al}_{0.9}\text{Mg}_{0.1}\text{O}_{3-\delta}$ electrolyte material", Physica B: Condensed Matter, 521, (2017), 230-238.
3. **Onkar Nath Verma**, Pardeep K Jha and Prabhakar Singh, "A structural-electrical property correlation in A-site double substituted lanthanum aluminate", Journal of Applied Physics, 122, 225106 (2017).
4. **Onkar Nath Verma**, Priyanka A. Jha, Pardeep K. Jha and Prabhakar Singh, "Probing oxygen ion conduction in $(\text{La}_{0.9-x}(\text{A})_x)\text{Sr}_{0.1}\text{Al}_{0.9}\text{Mg}_{0.1}\text{O}_{3-\delta}$ (A = Ba, Sm) electrolyte material with Pt and Ag as electrode", Physical Review Material. (Under Review)
5. **Onkar Nath Verma**, and Prabhakar Singh, "Study of transition in lanthanum aluminate and structural-electrical properties and their correlation for Sm-Substituted electrolyte system $\text{La}_{0.9}\text{Sr}_{0.1}\text{Al}_{0.9}\text{Mg}_{0.1}\text{O}_{3-\delta}$ ", (Under Review).
6. Madhvi Swami, **Onkar Nath Verma**, Priyanka A. Jha and Prabhakar Singh, "Correlation between piezoelectric and magnetic properties of Fe and Sm co-substituted potassium niobate piezoelectric ceramics", Journal of Applied Physics.

Papers Published as Conference Proceedings:

1. **Onkar Nath Verma**, A. K. Shahi, and P. Singh, "Study of lanthanum aluminate for cost effective electrolyte material for SOFC", AIP Conf. Proc. 1512 (2017) 248.

National/International Conferences/Workshops

1. Participated in "National Seminar on Analytical Techniques for Synthesis and Characterization of Materials (ATSCM-2015)" and presented a poster on "synthesis and characterization of LaAlO_3 material for SOFC" organized by Sree Vidhyadhiraja NSS college at Vazhoor Kerala on 26-27 February 2015.
2. Participated in "20th symposium and workshop on Thermal Analysis HERMANS-2016" organized by IIT (BHU) Varanasi and BARC, Mumbai, at IIT (BHU) from 18 to 22 January 2016 and presented a poster entitled "Preparation and characterization of lanthanum aluminate based electrolyte material".

3. Participated in the **“Global Initiative of Academic Networks (GIAN)”** short course on fuel cell technology at IIT Gandhinagar, Gujrat from 5 to 9 Decembr 2016.
4. Participated in **“Poster presentation”** on 2-3 April 2016 at Department of physics, IIT (BHU) Varanasi in 2016 and presented a poster entitled **“Fabrication of electrolyte materials for SOFCs** and got the **third prize**.
5. Participated in International conference on **“Advances in Biological System and Materials Science in Nanoworld (ABSMSNW-2017)”** at IIT (BHU) Varanasi from 19 to 23 February 2017 and presented a poster entitled **“Structral and electrical properties of LSAM as electrolyte material for SOFCs”**.
6. Participated in International conference on **“2nd International on Condensed Matter and Applied Physics”** at Govt. Engineering college, Bikaner from 24 to 25 November 2017 and presented a poster entitled **“Study of lanthanum aluminate for cost effective electrolyte material for SOFC”**.