

Anubha Sodhiya

Keen learner and a creative person

155/15, Maharajpur, Deori,
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EDUCATION

Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.) — *Ph.D.*

2023

Topic: Synthesis and Characterization of Inorganic Solid State Electrolyte Material for Lithium Ion Batteries.

Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.) — *M.Sc.(Physics)*

July 2014 - June 2016

Percentage Marks obtained 78%.

Govt. M. H. College, Jabalpur (M.P.) — *B.Sc.(PCAM)*

July 2011 - June 2014

Percentage Marks obtained 76%.

Saraswati Shishu Mandir Higher Secondary School, Maharajpur, Sagar (M.P.) — *12th(PCM)*

Percentage Marks obtained 88.8%.

Saraswati Shishu Mandir Higher Secondary School, Maharajpur, Sagar (M.P.) — *10th*

Percentage Marks obtained 85%.

ACHIEVEMENTS

- Secured second rank in order of merit in the examination of M.Sc. Physics.
- Secured first rank in order of merit in the examination of B.Sc. (PCAM).
- Cleared Graduation aptitude test (GATE) in the year 2019 and 2020.
- Cleared Chhattisgarh State Eligibility Test (CGSET) in the year 2018.
- Cleared Madhya Pradesh State Eligibility Test (MPSET) in the year 2019.

SKILLS

Keen learner,

Good verbal and written
communication skills,

Good analytical skills,

Good computer skills.

LANGUAGES

Hindi, English.

HOBBIES

Making paper crafts,

Making best out of waste crafts.

RESEARCH PUBLICATIONS

- **Anubha sodhiya**, Arun kumar singh, Sunil Soni, Shwetambar Patel, Ranveer kumar, Structural and transport properties of fluorine doped $Li_{6.4}Al_{0.2}La_3Zr_2O_{12}$ electrolyte, Springer, Applied Physics A, (2023) 128:629.
<https://doi.org/10.1007/s00339-022-05788-3>.
- **Anubha sodhiya**, Ranveer kumar, Arun kumar singh, Sunil Soni, *Effect of Ba^{2+} doping on the structure and transport properties of $Li_{6.28}Al_{0.24}La_3Zr_2O_{12}$ solid electrolyte*, Springer, Applied Physics A, (2021) 127:584.
<https://doi.org/10.1007/s00339-021-04729-w>.
- **Anubha Sodhiya**, Arun Kumar Singh And Ranveer Kumar, *Effect of various synthesis techniques on the electrical transport properties of garnet-structured solid electrolyte materials*, Springer, Bull. Mater. Sci., (2021) 44:217. <https://doi.org/10.1007/s12034-021-02501-7>.
- **Anubha Sodhiya**, Ranveer Kumar, Sandhya Patel, Arun kumar Singh and Sunil soni, *Study of transport and structural properties of garnet structured Ce^{3+} doped $Li_7La_3Zr_2O_{12}$ electrolyte by solid state reaction method*, AIP Conference proceedings, 2269, 030073 (2020). <https://doi.org/10.1063/5.0019544>
- Arun Kumar Singh, **Anubha Sodhiya**, and Ashish Verma, *The effect of synthesis temperature on the structural and electrochemical properties of S and N doped rGO electrodes*, Taylor & Francis, Fullerenes, Nanotubes and Carbon Nanostructures (2021). <https://doi.org/10.1080/1536383X.2021.1966418>
- Arun Kumar Singh, **Anubha Sodhiya**, Niharika Chourasiya, Sunil Soni, Aksh Kumar Verma, Ashish Verma, *Comparative study of normally and heat treated prepared GO and its supercapacitance performance*, AIP Conference proceedings, 2220, 140023 (2020). <https://doi.org/10.1063/5.0001119>
- Sunil Soni, **Anubha Sodhiya**, Arun Kumar Singh, Sandhya Patel and Ranveer Kumar, *The exfoliation of graphite and production of graphene-sulfur composite via ball milling for lithium sulfur-batteries*, AIP Conf. Proc. 2220, 140047 (2020). <https://doi.org/10.1063/5.0001184>

CONFERENCES AND WORKSHOPS

- Presented a paper on topic “The Electrical Transport Properties Study of 1.2 wt% Al_2O_3 Doped $Li_7La_3Zr_2O_{12}$ Electrolyte by Complex Impedance Spectroscopy” at ‘3rd International Conference on Condensed Matter and Applied Physics’ organized by Govt. Engineering college, Bikaner, Rajasthan held during 14-15 october 2019.

- Presented paper on topic “Future prospects of garnet type solid electrolytes for all solid state Lithium ion batteries” at National conference on ‘*Current Trends & Future Perspectives of Advanced Materials and Nanotechnology*’ organized by department of applied physics, Bhilai Institute of Technology, Durg, Chattisgarh held on 1st March 2019.
- Presented paper on topic “Synthesis of Al containing $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ solid electrolyte by solid combustion method” at 7th International Conference on ‘*Wallop of Globalization in Engg-Medi-Sci-Agri-Pharm-Tech Research*’ organized by Swami Vivekanad University, Sagar, (M.P.).
- Attended workshop on ‘Advance Imaging and microscopy’ organized by Dr. Harisingh Gour Vishwavidyalaya, Sagar held on 25-27 February, 2019.
- Attended one day workshop on ‘NMR Spectroscopy and its application’ organized by Dr. Harisingh Gour Vishwavidyalaya, Sagar held on 11 March 2019. Attended the “9th INUP Familiarization Workshop on Nanofabrication Technologies” at IIT Bombay, Maharashtra. From 23-24 May 2018.
- Attended the “9th NCPRE Familiarization Workshop on Nanofabrication Technologies” at IIT Bombay, Maharashtra. 25th May 2018.
- Attended the “12th National Conference on Solid State Ionics” at BITS Pilani, Rajasthan. From 21-23 December 2017.

RESEARCH PROJECT

On topic “Study of Lithium Molybdate system as an electrolyte for Lithium ion batteries” during M.Sc.