

Curriculum Vitae



Name	Dr. MD SARFARAZ NAWAZ
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Date of Birth	August 24, 1978
Marital Status	Married
Nationality	INDIAN
Passport No.	N8506091

Academic Qualifications:

- **Ph.D. (Awarded, 2007)** Preparation & Characterization of Superionic Conductors by Solid State Reactions, Aligarh Muslim University, (Central University) ALIGARH, INDIA
- **M.Sc. (Master of Science) Physical Chemistry:** 2000, Aligarh Muslim University, (Central University), ALIGARH, INDIA
- **B.Sc (Bachelor of Science) Chemistry honour,** 1998, Aligarh Muslim University, (Central University), ALIGARH, INDIA
- **Senior Secondary (10+2) Physics, Chemistry, Mathematics,** 1998, BIEC, PATNA, Bihar, India.

Academic Experience:

- Assistant professor, Currently teaching Engineering Chemistry (206) in Faculty of Engineering, Jazan University, Jazan, KSA,
- Assistant Professor, Medical Organic Chemistry (Chem-109), Department of Chemistry, Faculty of Science, Jazan University, Jazan, KSA, September 2016 to 2018.
- Assistant Professor, Medical Chemistry (Chem-108), PYD, Jazan University, Jazan, KSA, Duration 2010 to Sept 2016.
- **Appreciation letter from the Dean of PYP (2014)**
- Assistant Professor, Applied Medical sciences, (Health Science College), Jazan University, Jazan, KSA, Duration 2008 to 2010

- Analytical chemistry (Department of Pharmacy)
- Organic chemistry (Department of Pharmacy)
- Technique in Clinical Chemistry (Laboratory Technology Department)
- Basic Biochemistry (Pharmacy and Laboratory Technology Department)
- Lecturer, Department Chemistry, Indira Gandhi College of Tech., Aligarh, India
Duration: Feb. 2008 – Jun. 2008.
- Lecturer: Lecturer, Department Chemistry, Aligarh Muslim University, Aligarh, India
Duration: Aug. 2007- Jan. 2008.
- Research Scholar and Teaching Assistant 2001 to 2007.
 - Various academic teaching classes, Class modules preparation for My Prof. Rafiuddin and Assist in Research of my junior research scholar
 - Guidance for MSc student to plan various research projects

Teaching Skills:

- Good command over the subject that can be very effective in developing higher order cognitive skills such as problem solving and critical thinking of students.
- Interactive lecture by using projector, whiteboard-marker, group work, etc.
- Prepare Course file to put together lecture plans, quiz exams and final exam question papers and prepare required materials for students.
- Active teaching by demonstration, practical, assignments and revision classes.
- Positive encouragement and reinforcement to keep students focused and motivated.

Technical Skills:

- RLC Digi Bridge
 - Differential Scanning Calorimetry (DSC)
 - X-ray Diffractometer
 - Cyclic Voltammeters
 - Fluorescence Spectroscopy
 - Potentiometer, Galvanometer
 - FT-IR Spectroscopy
 - UV-Visible Spectrophotometer
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Research Abilities and Interests:

- Applied research related to materials properties in solid-state chemistry, involving their preparation, kinetics, tailoring the superionic conductors at ambient or elevated temperatures, the most recent scientific aspects of understanding ionic transport in solids.
- Working on preparations, characterizations and the electrochemical studies of inorganic-organic composite membranes.
- Nanomaterials and water purification
- Recently, interested on Magnetic nanoparticles as potentials biomedical tools

Academic and Research Experience:

- **Assistant Professor** (Oct.12, 2008 – to Date), Teaching various Discipline of Chemistry, Department of Chemistry, Faculty of Science, Jazan University, Jazan. KSA.
- **Research fellow (2001-2007)** at Department of Chemistry (Physical Chemistry Division), Aligarh Muslim University, (Central University), ALIGARH, INDIA
- **Lecture** (Feb 2007– June 2008), Aligarh Muslim University, (Central University), ALIGARH, INDIA
- MSc Project seminar on '**Perturbation theory for calculation of single and multielectronic systems**, Aligarh Muslim University, (Central University), ALIGARH, INDIA

Book/ Book chapter Published:

- **Book chapter entitled:** Studies on different desalination processes turning sea water into drinking fresh water
Fakhra Jabeen, **M. Sarfaraz Nawaz**
Applications of Adsorption and Ion Exchange Chromatography in Waste Water Treatment, MRF, Vol. 15, pp 107-154, **2017**
DOI: <http://dx.doi.org/10.21741/9781945291333-5>

List of International Publications:

- Synthesis, Characterization and Electrochemical Properties of Composite Membrane by an Aqueous Sol-Gel Method
Fakhra Jabeen and **M Sarfaraz Nawaz**, Mod. Chem. Appl. **2016**, 4:1
<http://dx.doi.org/10.4172/2329-6798.1000174>
- Effect on Electrical Properties of Cation Substituted Ag-Rich Binary System $(AgI)_{2/3}-(PbI_2)_{1/3}$
M. Sarfaraz Nawaz, Rafiuddin, Journal of Mater. Focus 3, 392-396, **2014**
DOI: <http://dx.doi.org/10.1166/mat.2014.1193>

- Ionic Conduction and Effect of Immobile Cation Substitution in Binary System $(\text{AgI})_{4/5}-(\text{PbI}_2)_{1/5}$
M. Hassan, **M. Sarfaraz Nawaz** and Rafiuddin
Journal of Radiation Effects and Defects in Solids, 885-891, 163 (11), 2008
Taylor & Francis Groups
[DOI: 10.1080/10420150801900634](https://doi.org/10.1080/10420150801900634)
- Ionic Conduction and Effect of Cation Doping in Tl_4HgI_6 .
M. Sarfaraz Nawaz and Rafiuddin,
Journal of Ionics, 35-40, 13(1), 2007, Springer-Verlag
[DOI: 10.1007/s11581-007-0069-z](https://doi.org/10.1007/s11581-007-0069-z)

Manuscripts under communication/preparation:

- Study of Ionic Conduction and Effect of Cations (K^+ , Tl^+ and Pb^{2+}) Doping in Ag_2HgI_4 System
M. Sarfaraz Nawaz and Rafiuddin
- Ion Transport and effect of cation doping in Ag^+ - based Superionic Glasses $(\text{AgI})_x - (\text{Ag}_2\text{MoO}_4)_{1-x}$
M. Sarfaraz Nawaz

Selected Workshop and Conferences attended:

- **Workshop Accessing Wiley Online Library**, organised by **Science Direct**, PYP Auditorium, Jazan University, on 12th Feb, 2014.
- **International Conference on Addiction Research Updates**, held during 5-6 March, 2013, organized by **Substance Abuse Research Centre**, Jazan University, Jazan, KSA.
- Participated in training course on **"EXCELLENCE IN RESEARCH"** Organized by Academic Staff College, Aligarh Muslim University, Aligarh, India (**7 days**) Jan 2005.
- National Conference on **"Advances in Environmental Science and Technology"** Organized by Zakir Husain College of Engineering & Technology, Aligarh Muslim University, Aligarh India, February 15-16, 2008,
- **National Conference on Advance Materials NACM-2008**, Gorakhpur University, Gorakh Pur, UP, India., 6 - 8th March, 2008

Scientific paper Presented:

- Presented the Paper *"Ion Transport in Ag^+ -based Superionic Glasses $(\text{AgI})_x - (\text{Ag}_2\text{MoO}_4)_{1-x}$ "* **National Conference on Advance Materials NACM-2008**, 6 - 8th March, 2008.

- Presented the Seminar “*Ionic Conduction, Effect of Doping and Applications of Solid Electrolytes*”, Department of Chemistry, Faculty of Science, Jazan University, Jazan, KSA, April, 2018

Personal Skill

- Analytical, persistent and flexible approach to problem solving.
- Proficiency in researching and gathering information, summarizing results in written reports and publications (on international journals).
- Working under pressure and meeting deadlines. Taking responsibilities and giving instructions.

Computer Skill

- Good understanding of all Microsoft Office Applications (MS Word, MS Excel, MS Power Point, etc.)
- Basic, Chem. Draw, Origin, Sigma, etc., Experienced use of scientific and data analysis applications and quick learning at new ones
- **Programming in Basic** for Scientific Data Analysis

Language Known

- English, Hindi, Urdu, Basic Arabic

(MD Sarfaraz Nawaz)

Date: October, 6- 2018