Brief Scientific Curriculum Vitae of
Dr. Irfan Hussain Lone

1- Basic Information:

Full name	**Dr. Irfan Hussain Lone**
Position	**Assistant Professor**
Postal address/ Current Address	**Department of Energy Studies, University of Kashmir Srinagar, Kupwara Campus**
Mobile number	**+91-6006582730**
E-mail	irfanhussain@uok.edu.in, irfanchem486@gmail.com
Place of birth	Srinagar Kashmir India
Google scholar:	https://scholar.google.com/citations?user=wPBnXOsAAAAJ&hl=en
Research Gate:	https://www.researchgate.net/profile/Dr_Irfan_Lone
Scopus website	https://orcid.org/0000-0001-8361-8786

2- Academic Qualification/Achievements:

Achievement	Institute	Year
GATE	**IIT**	**2009**
NET-JRF	**UGC-CSIR**	**2010**
Ph.D.	**Jamia Millia Islamia University Delhi**	**2011-2016**
SERB-NPDF PostDoc	NIT Srinagar	2017
International Teaching Experience	**Taibah University Medina Saudi Arabia**	2018-2021
Best Oral Presentation	Recent Advances in Chemistry **(RAC2014)**"at JMI	
Best Poster Presentation	**ISCAS-2013** ConferenceatDr.HariSinghGourSagarCentral University(MP)India	
Chaired Session	Fourth International Conferenceon Nanostructured Materials and Nanocomposites (**ICNM-2017**)" held at Mahatma Gandhi University Kottayam Kerala	

GoogleScholar

	All	Since2020
Citations	1036	837
h-index	16	16
i10-index	22	22

3- Researcharticlespublishedinbelowmentionedreputedjournals:

S.No	JournalName	Impactfactor	No.ofPapers
1.	ACSOmega	4.13	02
2.	InternationalJournalofHydrogenEnergy	**7.2**	01
3.	Material&Design	**9.4**	01
4.	RSCAdvances	4.04	02
5.	NewJournalofChemistry	3.93	01
6.	MaterialsResearchBulletin	**5.6**	02
7.	MaterialsChemistryandPhysics	4.08	01
8.	NanoscaleResearchLetters	4.7	01
9.	JournalofMaterialsResearchandTechnology	6.2	01
10.	SpectrochimicaActaPartA:Molecularand BiomolecularSpectroscopy	4.83	01
11.	Journalofnanoscienceandnanotechnology	2.32	01
12.	ChemistrySelect	2.32	02
13.	JournalofAdhesionScienceandTechnology	2.28	01
14.	MaterialsToday:Proceedings	2.9	01
15.	BulletinofMaterialsScience	1.9	01
16.	CurrentAnalyticalChemistry	2.1	01
17.	CurrentNanoscience	1.28	01
18.	AdvanceScienceLetter	1.25	01
19.	JournalofKingSaudUniversityScience	**7.2**	01

4- Collaborators and their Organizational Affiliations

i. Prof. Tokeer Ahmad, Ph.D, FRSC Department of Chemistry **Jamia Millia Islamia, Jamia Nagar, New Delhi** 110025,India Phone(M):+91 9958369786; Phone(O): Extn. 3261 E-mail: tahmad3@jmi.ac.in,

ii. Professor **Samuel Lofland,** Department Head and Professor Kandalam Ramanujachary, **Rowan University, Glassboro, New Jersey, USA**

5- Instrumental Skills: Bruker D8-Advance Powder X-ray Diffractometer, Photocatalytic Water Splitting Set-up, Gas Sensing Set-up,Perkin-Elmer TGA/DTA, GC, Nicolet FTIR, Malvern instruments Particle size and zeta potential analyzer (DLS), High temperature programmablefurnaces,HF-LCRmeter,UV-visiblespectrophotometer,Probesonicator, Hydrothermal Autoclave Synthesis Assembly and BET Surface Area Analyzer.

6- Research Interest: Multiferroic Nanomaterials, Nanocatalysis, Photocatalysis, Electrocatalysis, Photoelectrocatalysis, Water Splitting, H_2 Energy and Gas Sensing Applications. Anticorrosion Properties on LCS. Hydrogels, Nano-scale Drug Delivery,

7- Profile: Enthusiastic, Responsible, and Able to work independently using initiative as well as part of a team with a positive attitude. Proficient in teaching with innovative and inspiring ideas.

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List of Publications:

1. Highly Sensitive $TbCrO_3$ Capacitive Humidity Nanosensor Prepared by Sol–Gel Combustion, **Irfan H Lone,**Tarikul Islam, Jahangeer Ahmed, Sirajuddin Ahmed, Kandalam V Ramanujachary, Tokeer Ahmad, **Chemistry Select**, 2025/2
2. From kitchen to cosmetics: Study on the physicochemical and antioxidant properties ofwaste cooking oil-derived soap,Himanshi Soni, Monika Bhattu, MeenakshiVerma, Manvinder Kaur, Abdullah A Al-Kahtani,**Irfan Hussain Lone**, Ajar Nath Yadav, Mohd Ubaidullah, Journal of King Saud University-Science, 2024/11/1
3. Multiferroic and photocatalytic properties of $DyFeO_3$ nanoparticles stabilizedbycitrateprecursorroute**, Irfan H Lone**, Mohd Fazil,Jahangeer Ahmed, KandalamV Ramanujachary, Tokeer Ahmad, **Bulletin of Materials Science**, 2024/3/5,
4. Exploiting multiferroicity of $TbFeO_3$nanoparticles for hydrogen generationthroughphoto/electro/photoelectro-catalytic water splitting,Huma Khan, **Irfan HussainLone**, Samuel Edward Lofland, Kandalam Venkata Ramanujachary, Tokeer Ahmad, **International Journal of Hydrogen Energy,** 2023, 48, 5493-5505
5. Metal Organic Precursor Synthesis, Structural Characterization and Multiferroic Properties of GdFeO3 Nanoparticles,**Irfan H Lone**, Huma Khan, Arvind K Jain, Jahangeer Ahmed, Kandalam V Ramanujachary, Tokeer Ahmad,**ACS omega, 7,** 33908-33915, 2022
6. Magnetic, Electrical and Humidity Sensing Properties of Multiferroic GdCrO3 Nanoparticles Fabricated by Metal Organic Precursor Method, Chemistry Select, 2022, 2365-6549, **Irfan H Lone**, Huma Khan, Irshad A Wani, Arvind Kumar Jain, Tokeer Ahmad
7. Quenching Assisted Reverse Micellar Synthesis and Electrical Properties ofHighSurface Area BiFeO3 Nanoparticles,**Irfan H Lone,**Abul Kalam, Jahangeer Ahmed, Norah Alhokbany, Saad M Alshehri, Tokeer Ahmad, Journal of nanoscience and nanotechnology, Volume 20, Number 6, June 2020, pp. 3823-3831(9), https://doi.org/10.1166/jnn.2020.17527
8. Molecular binding interaction of pyridinium based gemini surfactants with bovine seruman: Insights from physicochemical, multispectroscopic,and computation alanalysis, Jeenat Aslam, **Irfan Hussain Lone**, Farah Ansari, Afroz Aslam, Ruby Aslam, Mohd Akram, Spectrochimica Acta PartA: Molecular and Biomolecular Spectroscopy, Volume 250, 5 April 2021, 119350, https://doi.org/10.1016/j.saa.2020.119350

9. Inhibitory effect of 2-Nitroacridone on corrosion of low carbon steel in 1 M HClsolution: An experimental and theoretical approach, Jeenat Aslam, Ruby Aslam,**IrfanHussainLone**,NagiRERadwan,MohammadMobin,AfrozAslam,Mehtab Parveen, Ajab Abdullah Al-Freedi, Alaa Awad Alzulaibani, Journal of Materials Research and Technology,Volume 9, Issue 3, May–June 2020, Pages 4061-4075, https://doi.org/10.1016/j.jmrt.2020.02.033

10. Review onPolymeric Citrate Precursor and Sono-chemicalMethods for the Synthesis of Nanomaterials.**Irfan Hussain Lone,**Jeenat Aslam, Nagi R. E. Radwan, Arifa Akhter,Rayees AhmadSheikh,Current Analytical Chemistry.2020 Nov1;16(7):826-32, https://doi.org/10.2174/1573411015666191203102837

11. Molecular Interaction of Amino Acid-Based Gemini Surfactant with Human Serum Albumin: Tensiometric, Spectroscopic, and Molecular Docking Study Jeenat Aslam, **IrfanHussainLone**,NagiR.E.Radwan,MohdFaizanSiddiqui,ShaziaParveen,Rua B. Alnomanand Ruby Aslam, ACS Omega 2019, 4, 26, 22152–22160, https://pubs.acs.org/doi/full/10.1021/acsomega.9b03315

12. MultiferroicABO$_3$TransitionMetalOxides:aRareInteractionofFerroelectricityand Magnetism,**IrfanHussainLone**,JeenatAslam,NagiR.E.Radwan,AliHabib Bashal,AminF.A.Ajlouni&ArifaAkhter,**NanoscaleResearchLetters**, volume14, 142(2019).https://nanoscalereslett.springeropen.com/articles/10.1186/s11671-019-2961-7

13. Concept of Reverse Micelle Method For the Synthesis of Nano-Structured Materials **Irfan Hussain Lone**, Nagi R.E. Radwan, Jeenat Aslam and Arifa Akhter, **CurrentNanoscience**,2018,14,1-8.https://www.eurekaselect.com/node/162948/article

14. Reverse Micellar Synthesis, Characterization, Magnetic and Ferroelectric Properties of $YFeO_3$ Nanoparticles, **Irfan H. Lone**, Jahangeer Ahmad,TokeerAhmad, **Materials Today: Proceedings,** Vol.5, 07,1530315310.2018 https://www.sciencedirect.com/science/article/pii/S2214785318308812

15. Structural characterization and properties of$YCrO_3$ nanoparticles prepared by reverse micellar method,**IrfanH.Lone,TokeerAhmad,BulletinofMaterialsScience**,41,1 ,25,2018.https://link.springer.com/article/10.1007/s12034-017-1527-5

16. Development of multifunctional lutetium ferrite nanoparticles: Structural characterization and properties,**Tokeer Ahmad,Irfan H. Lone,MaterialsChemistryand Physics,Volume 2021**December 2017, Pages 50-55**(IF= 2.28).**https://www.sciencedirect.com/science/article/pii/S0254058417306910

17. Citrate precursor synthesis and multifunctional properties of $YCrO_3$nanoparticles, **Irfan H. Lone** and Tokeer Ahmad* **NewJ.Chem.**40,3216-3224**,**2016. **(IF= 3.78). http://pubs.rsc.org/-/content/articlelanding/2016/nj/c5nj02763b#!divAbstract**

18. YttriumIronOxideasMultifunctionalNanomaterial:PropertiesandApplication, **Irfan H. Lone**, Abdullah M. Asiri, S.G. Ansari, Z.A. Ansari and Tokeer Ahmad*, Volume 126, 15 July 2017, Pages 331–338,**Material& Design (IF = 4.3) http://www.sciencedirect.com/science/article/pii/S0264127517303878**

19. Structural Characterization and Multiferroic Properties of Hexagonal Nano-sized $YMnO_3$Developed by Low Temperature Precursor Route,**IrfanH.Lone**, Mohd Ubaidullah, Tokeer Ahmad* **RSCAdvances**, 5, 58065-58071, 2015.**(IF = 3.25).** http://pubs.rsc.org/en/content/articlelanding/2015/ra/c5ra09038e#!divAbstract

20. Dielectric, optical and enhanced photocatalytic Properties of $CuCrO_2$nanoparticles, TokeerAhmad, RubyPhul, Parvez Alam, **Irfan H. Lone**, Mohd. Shahazad Jahangeer

Ahmed, Tansir Ahamad and Saad M. Alshehri, **RSC Advances**, 2017, 7, 27549**(IF= 3.25).** http://pubs.rsc.org/en/content/articlehtml/2017/ra/c6ra26888a

21. Microemulsion synthesis, structural characterization and dielectric properties of $Ba_{1-x}Pb_xZrO_3$($0.05 \leq x \leq 0.20$) nanoparticles, Tokeer Ahmad, Mohd Ubaidullah,**Irfan H Lone**, Dinesh Kumar, Omar A Al-Hartomy,**Materials Research Bulletin**, 89, 185-192, 2017. **(IF = 2.65).**

22. MetalOrganicPrecursorRouteforPb-substitutedBaZrO$_3$Nanoceramics: Structural Characterization and Properties. Mohd Ubaidullah,**IrfanH.Lone**, OmarA. Al-Hartomy, DineshKumar, and TokeerAhmad,**Advance Science Letter**, 20, 1354-1359, 2014. **(IF = 1.25)**

23. Low-Temperature Synthesis, Structural and Magnetic Properties of Self-dopantLaMnO$_{3+\delta}$Nanoparticles from aMetal-organicPolymericPrecursor, **IrfanH.Lone**,Mohd.Ubaidullah,KelseyCoolhanandTokeer Ahmad*, **MaterialsResearchBulletin**, 48,4723-4728, 2013. **(IF = 2.65).**

24. AntifungalActivityofGoldNanoparticlesPreparedbySolvothermalMethod.TokeerAhmad,IrshadA.Wani,**IrfanH.Lone**,AparnaGanguly,NikhatManzoor,AijazAhmad,JahangeerAhmed,AyedS.Al-Shihri, **MaterialsResearchBulletin**, 48,12-20,2013.**(IF=2.65)**

8- List of Conferences:

1. Three-day National Conference attended on"**Nanomission**"at IIT-Delhi-2011
2. Volunteer organizer scholar of **7 National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS 2011)** at Department of Chemistry, Jamia Millia Islamia New Delhi India.
3. Participation in the five-day work shop on **Solid State Chemistry and Allied Areas (ISCAS-2012)** at ISCAS-Institute Jammu India.
4. Poster presentation entitled **"Structural Characterization and Magnetic Properties of Nanocrystalline $LaMnO_3$"**presented in the five-day conference **ISMC-2012** at BARC-Mumbai India.
5. **Best** poster presentation award entitled**" Dielectric and Magnetic Properties of Nanocrystalline $YFeO_3$ Prepared by Facile Metal Organic Polymeric Citrate Precursor Method"** presented in the **ISCAS-2013** conference at Dr. Hari Singh Gour Sagar Central University (MP)India
6. Poster presentationentitled **Structural Characterization and Properties of Nanocrystalline Multiferroic Phases (YFeO3 & YMnO3) Developed by Polymeric PrecursorMethod**"presentedintheinternationalconferenceofnanoscienceand technology **ICONSAT-2014** at **Punjab University India.**

7. **Best** oral presentation in one day seminar entitled **"RECENT ADVANCES IN CHEMISTRY (RAC 2014)**"at Department of Chemistry, Jamia Millia Islamia (New Delhi) India.
8. Poster presentation in two-day conference on **"National Conference on Nanotechnology and Renewable Energy "**at Department of Applied Science and Humanities, Faculty of Engineering and Technology; Jamia Millia Islamia, New Delhi,
9. Presented a paper as **Invited talk** at the "**Fourth International Conference on Nanostructured Materials and Nanocomposites (ICNM-2017)"**held at Mahatma Gandhi University Kottayam Kerala India from 10-12 February 2017.
10. Chaired a Session at the "**Fourth International Conference on Nanostructured Materials and Nanocomposites (ICNM-2017)"**held at Mahatma GandhiUniversity Kottayam Kerala India from 10-12 February 2017.
11. Participated One-week **MHRD GIAN** course on "**Recent Developments in Nano Materials for Energy and Health Care Applications**" at Department of Chemistry, JMI from 19-12-2016 to 24-12-2016.
12. Oral Presentation in one-day Seminar at Department of Chemistry, Science College Yanbu, **Taibah University Medina**, Saudi Arabia, April 2018