

BriefScientificCurriculumVitaeof

Dr.IrfanHussainLone



1- Basic Information:

Fullname	Dr. Irfan Hussain Lone
Dateof birth	01-03-1985
Placeof birth	SrinagarKashmirIndia
Postaladdress	DepartmentofChemistry,UniversityofKashmirSrinagar
Mobilenummer	+91-6006582730
E-mail	irfanchem486@gmail.com , irfan123nano@gmail.com
Position	Assistant Professor
CurrentAddress:	Department of Energy Study , University of Kashmir Srinagar India
Googlescholar:	https://scholar.google.com/citations?user=wPBnXOsAAAAJ&hl=en
ResearchGate:	https://www.researchgate.net/profile/Dr_Irfan_Lone
Scopuswebsite	https://orcid.org/0000-0001-8361-8786

2- AcademicQualification/Acheivemets:

Achievement	Institute	Year
GATE	IIT	2009
NET-JRF	UGC-CSIR	2010
Ph.D.	JamiaMilliaIslamia University Delhi	2011-2016
SERB-NPDF Post Doc	NITSrinagar	2017
InternationalTeaching Experience	TaibahUniversityMedina SaudiArabia	2018-2020
BestOralPresentation	RecentAdvancesinChemistry(RAC2014)”atJMI	
BestPosterPresentation	ISCAS-2013conferenceatDr.HariSinghGourSagarCentral University (MP)India	
ChairedSession	FourthInternationalConferenceonNanostructuredMaterials and Nanocomposites (ICNM-2017)” held at Mahatma GandhiUniversityKottayam Kerala	
ChairedSession	22nd National Conference on Surfactants, Emulsions and Bio-colloids (NATCOSEB-XXII), scheduled from 25th to 30thAugust,2025.DepartmentofChemistry,Universityof KashmirSrinagarIndia	

BriefScientificCurriculumVitaeof
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GoogleScholar

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

3- Researcharticlespublishedinbelowmentionedreputedjournals:

S.No	JournalName	Impactfactor	No.of Papers
1.	ACSOmega	4.13	02
2.	InternationalJournalofHydrogenEnergy	7.2	01
3.	Material&Design	9.4	01
4.	RSCAdvances	4.04	02
5.	NewJournalof Chemistry	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.	BulletinofMaterials Science	1.9	01
16.	CurrentAnalyticalChemistry	2.1	01
17.	CurrentNanoscience	1.28	01
18.	AdvanceScienceLetter	1.25	01
19.	JournalofKingSaudUniversityScience	7.2	01

BriefScientificCurriculumVitaeof

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4- CollaboratorsandtheirOrganizationalAffiliations

- i. Prof. Tokeer Ahmad, Ph.D, FRSC Department of Chemistry Jamia MilliaIslamia, Jamia Nagar, New Delhi 110025, India Phone (M): +91 9958369786; Phone (O): Extn. 3261 E-mail: tahmad3@jmi.ac.in,tokeer@rediffmail.com
- ii. Professor Ashok Kumar Ganguli **Director, IISER** Berhampur, Professor of Chemistry, IITDelhiandFoundingDirectorINSTMohali director@iiserbpr.ac.in
- iii. Professor **Samuel Lofland**, Department Head and Professor Kandalam Ramanujachary,Rowan University, **Glassboro, New Jersey, USA**
- iv. Dr. Farruk Khalid, **School of Energy Science and Engineering Indian Institute of Technology Guwahati**, Guwahati-781039, Assam, India. f.khalid@iitg.ac.in
- v. Prof.A.K.Tyagi,Chemistry Division,**BARC** Homi Bhabha National Institute (HBNI), Mumbai,Maharashtra deanhbni@hbni.ac.in
- vi. Prof.SameerSapraDepartmentofChemistry,**IndianInstituteofTechnology Delhi** Hauz Khas, New Delhi, Email: sapra@chemistry.iitd.ac.in, Phone:01126591561
- vii. Prof. **N. Saeed Abass Gomaa**, Department of Chemistry, **Taibah University**, Al Madinah Al Munawwarah, Kingdom of **Saudi Arabia**

5- Instrumental Skills: Bruker D8-Advance Powder X-ray Diffractometer, Photocatalytic Water Splitting Set-up, Gas Sensing Set-up, Perkin-Elmer TGA/DTA, GC, NicoletFTIR, Malvern instruments Particle sizer and zeta potential analyzer (DLS), High temperature programmable furnaces, HF-LCR meter, UV-visible spectrophotometer, Probe sonicator, Hydrothermal Autoclave Synthesis Assembly and BET Surface Area Analyzer.

6- Research Interest: Multiferroic Nanomaterials, Nanocatalysis, Photocatalysis, Electrocatalysis,Photoelectrocatalysis,WaterSplitting,H₂EnergyandGasSensing Applications. Anticorrosion Properties on LCS.

7- Profile:Enthusiastic,Responsible,Abletoworkindependentlyusinginitiativeaswellas part of a team with a positive attitude. Proficient in teaching with innovative and inspiring ideas.

ListofPublications:

1. Highly Sensitive TbCrO₃ 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 of waste cooking oil-derived soap, Himanshi Soni, Monika Bhattu, Meenakshi Verma, 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 DyFeO₃ nanoparticles stabilized by citrate precursor route, **Irfan H Lone**, Mohd Fazil, Jahangeer Ahmed, Kandalam V Ramanujachary, Tokeer Ahmad, **Bulletin of Materials Science**, 2024/3/5,
4. Exploiting multiferroicity of TbFeO₃ nanoparticles for hydrogen generation through photo/electro/photoelectro-catalytic water splitting, Huma Khan, **Irfan Hussain Lone**, 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. Molecular binding interaction of pyridinium based geminisurfactants with bovine serum albumin: Insights from physicochemical, multispectroscopic, and computational analysis, Jeenat Aslam, **Irfan Hussain Lone**, Farah Ansari, Afroz Aslam, Ruby Aslam, Mohd Akram, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 250, 5 April 2021, 119350, <https://doi.org/10.1016/j.saa.2020.119350>
8. Quenching Assisted Reverse Micellar Synthesis and Electrical Properties of High Surface 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>
9. Review on Polymeric Citrate Precursor and Sono-chemical Methods for the Synthesis of Nanomaterials. **Irfan Hussain Lone**, Jeenat Aslam, Nagi R. E. Radwan, Arifa Akhter, Rayees Ahmad Sheikh, Current Analytical Chemistry. 2020 Nov 1;16(7):826-32, <https://doi.org/10.2174/1573411015666191203102837>
10. Inhibitory effect of 2-Nitroacridone on corrosion of low carbon steel in 1 M HCl solution: An experimental and theoretical approach, Jeenat Aslam, Ruby Aslam, **Irfan Hussain Lone**, Nagi R E Radwan, Mohammad Mobin, Afroz Aslam, 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>
11. Molecular Interaction of Amino Acid-Based Gemini Surfactant with Human Serum Albumin: Tensiometric, Spectroscopic, and Molecular Docking Study Jeenat Aslam, **Irfan Hussain Lone**, Nagi R. E. Radwan, Mohd Faizan Siddiqui, Shazia Parveen, Rua B. Alnomanand Ruby Aslam, ACS Omega 2019, 4, 26, 22152–22160, <https://pubs.acs.org/doi/full/10.1021/acsomega.9b03315>
 12. Multiferroic ABO₃ Transition Metal Oxides: a Rare Interaction of Ferroelectricity and Magnetism, **Irfan Hussain Lone**, Jeenat Aslam, Nagi R. E. Radwan, Ali Habib Bashal, Amin F. A. Ajlouni & Arifa Akhter, **Nanoscale Research Letters**, volume 14, 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, **Current Nanoscience**, 2018, 14, 1–8. <https://www.eurekaselect.com/node/162948/article>
 14. Reverse Micellar Synthesis, Characterization, Magnetic and Ferroelectric Properties of YFeO₃ Nanoparticles, **Irfan H. Lone**, Jahangeer Ahmad, Tokeer Ahmad, **Materials Today: Proceedings**, Vol. 5, 07, 15303–15310. 2018 <https://www.sciencedirect.com/science/article/pii/S2214785318308812>
 15. Structural characterization and properties of YCrO₃ nanoparticles prepared by reverse micellar method, **Irfan H. Lone**, **Tokeer Ahmad**, **Bulletin of Materials Science**, 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**, **Materials Chemistry and 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 YCrO₃ nanoparticles, **Irfan H. Lone** and Tokeer Ahmad* **New J. Chem.** 40, 3216–3224, 2016. (IF = 3.78). <http://pubs.rsc.org/-/content/articlelanding/2016/nj/c5nj02763b#!divAbstract>
 18. Yttrium Iron Oxide as Multifunctional Nanomaterial: Properties and Application, **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) <https://www.sciencedirect.com/science/article/pii/S0264127517303878>
 19. Structural Characterization and Multiferroic Properties of Hexagonal Nano-sized YMnO₃ Developed by Low Temperature Precursor Route, **Irfan H. Lone**, Mohd Ubaidullah, Tokeer Ahmad* **RSC Advances**, 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 CuCrO₂ nanoparticles, Tokeer Ahmad, Ruby Phul, Parvez Alam, **Irfan H. Lone**, Mohd. Shahazad Jahangeer

BriefScientificCurriculumVitaeof

Dr.IrfanHussainLone

- 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 $\text{Ba}_{1-x}\text{Pb}_x\text{ZrO}_3$ ($0.05 \leq x \leq 0.20$) 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. MetalOrganicPrecursorRoute for Pb-substituted BaZrO_3 Nanoceramics: Structural Characterization and Properties. Mohd Ubaidullah, **Irfan H. Lone**, Omar A. Al-Hartomy, Dinesh Kumar, and Tokeer Ahmad, **Advance Science Letter**, 20, 1354-1359, 2014. (IF = 1.25)
 23. Low-Temperature Synthesis, Structural and Magnetic Properties of Self-dopant $\text{LaMnO}_{3+\delta}$ Nanoparticles from a Metal-organic Polymeric Precursor, **Irfan H. Lone**, Mohd. Ubaidullah, Kelsey Coolhan and Tokeer Ahmad*, **Materials Research Bulletin**, 48, 4723-4728, 2013. (IF = 2.65).
 24. Antifungal Activity of Gold Nanoparticles Prepared by Solvothermal Method. Tokeer Ahmad, Irshad A. Wani, **Irfan H. Lone**, Aparna Ganguly, Nikhat Manzoor, Aijaz Ahmad, Jahangeer Ahmed, Ayed S. Al-Shihri, **Materials Research Bulletin**, 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 **7th 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 presentation entitled **Structural Characterization and Properties of Nanocrystalline Multiferroic Phases (YFeO_3 & YMnO_3) Developed by Polymeric Precursor Method** “presented in the international conference of nanoscience and technology **ICONSAT-2014 at Punjab University India**.

BriefScientificCurriculumVitaeof

Dr.IrfanHussainLone

7. **Best oral presentation** in one dayseminar entitled“**RECENT ADVANCES IN CHEMISTRY(RAC 2014)**”at Department ofChemistry, **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, FacultyofEngineeringandTechnology; Jamia MilliaIslamia, NewDelhi,
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**