

Dr. MOHAMMED ARIF

SC: 57220041978

Assistant ProfessorCentre for Nanoscience and Nanotechnology, Faculty of Sciences,
Jamia Millia Islamia (A Central University), New Delhi-110025, India**Mobile:** +91-9871458746**Email:** marif1@jmi.ac.in, arif.mohammed0208@gmail.com<https://orcid.org/0000-0001-6255-3063><https://scholar.google.co.in/citations?hl=en&user=O0quQroAAAAJ>https://www.researchgate.net/profile/Mohd-Arif-10?ev=hdr_xprf**JAMIA MILLIA
ISLAMIA**
A Central University
(NAAC Accredited
A++ Grade)**EDUCATION**

Degree	Discipline	Institution	Year
Ph.D.	Physics	Jamia Millia Islamia, New Delhi, India	2023
M.Phil.	Physics	Mewar University, Chittorgarh, Rajasthan, India	2013
M.Sc.	Physics	Jamia Millia Islamia, New Delhi, India	2010

WORK EXPERIENCE

Date	Academic Rank and Title	Institution /Department
Sept 2025 – Till date (Current Position)	Assistant Professor	Centre for Nanoscience and Nanotechnology, Faculty of Sciences, Jamia Millia Islamia (A Central University), New Delhi-110025.
Aug 2025 – Sept 2025	Guest Faculty	Department of Physics, Faculty of Sciences, Jamia Millia Islamia (A Central University), New Delhi-110025.
Feb 2022 – May 2025	Guest Teacher (Physics)	Applied Science & Humanities Section, University Polytechnic, Jamia Millia Islamia, New Delhi-110025
Feb 2011– Dec 2011	Research Fellow	Department of Electrical Engineering, Jamia Millia Islamia, New Delhi-110025

ACADEMIC SCHOLARSHIPS/AWARDS

- Teachers' Excellence Award 2025** by Shikshak Kalyan Foundation (Regd.), on 05th Sept.2025, Ghaziabad, U.P.
- Appreciation Award** by MJF Trust (Regd.) on 25th Sept. 2022, held at India Islamic Culture Centre, Lodi Road, New Delhi-03
- Doctoral Research Fellowship** (October 2015-October 2019) by UGC Ministry of Human Resources (MHRD), India.
- Research Fellow Fellowship** (Jan.2011- Dec.2011) from UGC, Ministry of Human Resources (MHRD), India.

CITATION INDEX Total Publication in SCI Journals: 23

Google Scholar		Scopus Scopus Author ID: 57220041978		Web of Science Researcher ID: JYQ-4978-2024	
Citations	1104	Citations	926	Citations	859
h-index	20	h-index	18	Without self-citations	747
i10-index	21			Average per item	10.67
				h-Index	19

RESEARCH INTEREST

Thin film technology, Electro-ceramics, Pulsed Laser Deposition, RF Sputtering, Sol-gel, Solid State Fabrication Techniques, Processing & characterization of Ferroelectrics, Dielectrics. Transducer and non-volatile memory device applications, Ferroelectrics-semiconductor interface physics, gas sensors.

MAJOR CONTRIBUTIONS IN THE AREA

Synthesis and growth of Nanostructured functional materials, chemical synthesis, and electrochemical anodization.
Synthesis Instrumentation: Physical Vapor Deposition (PVD), Chemical Vapor Deposition (CVD), Solid state reaction, E-beam/Thermal Evaporation, Plasma Enhanced Chemical Vapor Deposition, Sol-gel Spin Coating/dip coating.

TECHNIQUES KNOWN

X-ray diffraction, UV-Vis-NIR Spectrometer, Raman Spectroscopy, FTIR spectroscopy, Photoluminescence Measurement, Field Emission Scanning Electron Microscopy, Transmission Electron Microscopy (TEM), and TEM Sample Preparation Technique.

LIST OF PUBLICATIONS (Journals = 24, Book Chapter = 03, Book = 01, International/National Conference = 08, Total = 36)

1. Khan Z. R., **Arif M.**, Singh A., “Development and study of the structural and optical properties of hexagonal ZnO nanocrystals”, **International Nano Letters**, (2012), **2.22**, pp.1-5 <https://doi.org/10.1186/2228-5326-2-22> *(Impact Factor 4.10)*
2. **Arif M.**, Siddhartha, Khan Z. R., Gupta V., Singh A., “Influence of substrate temperature on Structural and optical properties of thermally evaporated CdS Nanocrystalline thin films”, **Indian J. Pure & Applied Physics**, (2014), Vol. **52**, pp.699-703 *(Impact Factor 0.84)*
3. Gupta V., Sharma N., Singh U., **Arif M.**, Singh A., “Higher oxidation level in graphene oxide, **Optik, International Journal for Light and Electron Optics** **143** (2017) 115–124. <https://doi.org/10.1016/j.ijleo.2017.05.100> *(Impact Factor 3.10)*
4. **Arif M.**, Sanger A., Singh A., “Sputter deposited chromium nitride thin electrodes for super capacitor applications”, **Materials Letters**, **230** (2018)213-217 <https://doi.org/10.1016/j.matlet.2018.02.094> *(Impact Factor 2.70)*
5. **Arif M.**, Sanger A., Singh A., “Highly Sensitive NiO Nanoparticle-based Chlorine Gas Sensor”, **Journal of Electronic Materials** (2018) **47**: 3451-3458 <https://doi.org/10.1007/s11664-018-6176-y> *(Impact Factor 2.20)*
6. **Arif M.**, Sanger A., Vilarinho Paula M., Singh A., “Effect of Annealing Temperature on Structural and Optical Properties of Sol-Gel- Derived ZnO Thin Films”, **Journal of Electronic Materials**, (2018) **47**: 3678-3684 <https://doi.org/10.1007/s11664-018-6217-6> *(Impact Factor 2.20)*
7. **Arif M.**, Monga S., Sanger A., Viliarinho Paula M., Singh A., “Investigation of structural, optical and vibrational properties of highly oriented ZnO thin film”, **Vacuum**, **155** (2018) 662–666. <https://doi.org/10.1016/j.vacuum.2018.04.052> *(Impact Factor 3.80)*
8. Shkir M., **Arif M.**, Ganesh V., Manthrammel M. A., Singh A., Yahia I.S., Patil P.S., Maidur Shivaraj R., AlFaify S., “Investigation on structural, linear and nonlinear optical properties of sol-gel derived nanocrystalline Mg doped ZnO thin films for optoelectronic applications”, **Journal of Molecular Structure**, **1173** (2018) 375-384. <https://doi.org/10.1016/j.molstruc.2018.06.105> *(Impact Factor 4.10)*
9. Shkir M., **Arif M.**, Ganesh V., Manthrammel M. A., Singh A., Maidur Shivaraj R., Patil P.S., Yahia I.S., Algarni H., AlFaify S., “Linear, third order nonlinear and optical limiting studies on MZO/FTO thin films system fabricated by spin coating technique for electro-optic applications”, **Journal of Materials Research** **33**(2018)3880-3889. <https://doi.org/10.1557/jmr.2018.310> *(Impact Factor 2.70)*
10. **Arif M.**, Sanger A., Shkir M., Singh A., Katiyar Ram S., “Influence of interparticle interaction on the structural, optical and magnetic properties of NiO nanoparticles”, **Physica B: Condensed Matter** **552** (2019) 88-95. <https://doi.org/10.1016/j.physb.2018.09.023> *(Impact Factor 2.80)*
11. **Arif M.**, Shkir M., AlFaify S., Sanger A., Paula M. Vilarinho, Singh A., “Linear and nonlinear optical investigations of N: ZnO/ITO thin films system for opto-electronic functions”, **Optics & Laser Technology** **212** (2019) 539-547. <https://doi.org/10.1016/j.optlastec.2018.11.006> *(Impact Factor 4.60)*
12. Kumari N., Monga S., **Arif M.**, Sharma N., Singh A., Gupta V., Viliarinho Paula M., Srinivas K., Katiyar Ram S., “Higher permittivity of Ni-doped Lead Zirconate Titanate, Pb [(Zr_{0.52}Ti_{0.48})_(1-X)Ni_X] O₃ ceramics”, **Ceramics International** **45** (2019) 4398-4407. <https://doi.org/10.1016/j.ceramint.2018.11.117> *(Impact Factor 5.10)*
13. **Arif M.**, Shkir M., AlFaify S., Sanger A., Vilarinho Paula M., Singh A., “A structural, morphological, linear and nonlinear optical spectroscopic studies of nanostructured Al-doped ZnO thin films: An effect of Al concentrations”, **Journal of Materials Research**, **34** (2019) 1309-1317. <https://doi.org/10.1557/jmr.2018.506> *(Impact Factor 2.70)*
14. Singh A., Sharma N., **Arif M.**, Katiyar Ram S., “Electrically reduce graphene oxide for photo voltaic application”, **Journal of Materials Research**, **34** (4), (2019) 652-660. <https://doi.org/10.1557/jmr.2019.32> *(Impact Factor 2.70)*
15. **Arif M.**, Sanger A., Singh A., “One-step sputtered titanium nitride nano-pyramid thin electrodes for symmetric super-capacitor device”, **Materials Letters**, **245** (2019) 142-146. <https://doi.org/10.1016/j.matlet.2019.02.082> *(Impact Factor 2.70)*
16. Kumari N., Monga S., **Arif M.**, Sharma N., Sanger A., Singh A., Gupta V., Viliarinho Paula M., Srinivas K., Katiyar Ram S., Scott James F., “Multifunctional Behavior of acceptor-cation substitution at higher doping concentration in PZT ceramics”, **Ceramics International**, **45** (2019) 12716-12726. <https://doi.org/10.1016/j.ceramint.2019.03.138> *(Impact Factor 5.10)*
17. **Arif M.**, Shkir M., Ganesh V., Singh A., & AlFaify S., “A significant effect of Ce-doping on key characteristics of NiO thin films for optoelectronics facilely fabricated by spin coater”, **Superlattices & Microstructures**, **129** (2019) 230-239. <https://doi.org/10.1016/j.spmi.2019.03.025> *(Impact Factor 2.70)*

18. Shkir M., **Arif M.**, Singh A., I.S. Yahia, H. Algarni, S. AlFaify, “A facile one-step flash combustion synthesis and characterization on C-doped NiO nanostructures”, **Materials Science in Semiconductor Processing** **100** (2019) 106–112. <https://doi.org/10.1016/j.mssp.2019.04.038> (Impact Factor 4.20)
19. Shkir M., **Arif M.**, Ganesh V., Singh A., & AlFaify S., “Effect of La doping on key characteristics of SnO₂ thin films facilely fabricated by spin coating technique”, **Optical Materials** **94** (2019) 277–285. <https://doi.org/10.1016/j.optmat.2019.05.053> (Impact Factor 3.80)
20. Shkir M., **Arif M.**, Ganesh V., Singh A., H. Algarni, I.S. Yahia, & AlFaify S., “An effect of Fe on physical properties of nanostructured NiO thin films for nonlinear optoelectronic applications”, **Appl. Phys. A** **126**, 119 (2020). <https://doi.org/10.1007/s00339-020-3293-2> (Impact Factor 2.50)
21. Sharma N., **Arif M.**, Monga S., Shkir M., Mishra Y. K., & Singh A., “Investigation of band gap alteration in graphene oxide with different reduction routes”, **Applied Surface Science** **513** (2020) 145396. <https://doi.org/10.1016/j.apsusc.2020.145396> (Impact Factor 6.80)
22. Priya A.K., Muruganandam M., Imran M., Gill R., Reddy M. R. V., Shkir M., Sayed M.A., AlAbdulaal T.H., Algarni H, **Arif M.**, Jha N.K., Sehgal Satbir S., “A study on managing plastic waste to tackle the worldwide plastic contamination and environmental remediation”, **Chemosphere** **341** (2023) 139979. <https://doi.org/10.1016/j.chemosphere.2023.139979> (Impact Factor 8.80)
23. Al-Anazi A. A., Al-Hajji L.A., Ismail A. A., El-Toni A. M., Khan A., **Arif M.**, “Enhanced Hg (II) reduction activity over two-dimensional nn heterojunction MoS₂/Bi₂WO₆ nanocomposites under visible light illumination”, **Optical Materials**, **157** (2024), 116327. <https://doi.org/10.1016/j.optmat.2024.116327> (Impact Factor 3.80)
24. Ismail A. A., Al-Hajji L.A., El-Toni A. M., **Arif M.**, “Decoration of mesoporous hydroxyapatite nanorods by CdSe and PtO nanoparticles for enhanced photo-catalytic oxidation of antibiotic pollutant in water”, **Journal of the Taiwan Institute of Chemical Engineers**, **165** (2024) 105818. <https://doi.org/10.1016/j.jtice.2024.105818> (Impact Factor 5.50)

EDITED BOOK

1. Editor in book titled, “Novel Multifunctional Materials for Modern Technology” edited by Amit Sanger, **Arif M.**, and Mohd. Shkir, published by [*Indexed: Web of Science*] (Apple Academic Press, CRC Press, a Taylor and Francis Group, Hardback ISBN: 978-1-77964-565-4; E-book ISBN: 978-1-77964-566-1 (2025)

BOOK CHAPTERS

1. **Arif M.**, Sanger A., Singh A., “Chromium nitride thin electrodes for supercapacitor applications”, Science, Technology and Advanced Applications of Supercapacitors, [*Indexed: Web of Science*] (Intech Open, ISBN 978-953-51-7034-1). (2019). <http://dx.doi.org/10.5772/intechopen.81469>
2. **Arif M.**, “Doped ZnO Thin Films as Transparent Conducting Oxides”, Novel Multifunctional Materials for Modern Technology, [*Indexed: Web of Science*] (Apple Academic Press, CRC Press, a Taylor and Francis Group, ISBN 978-1-77964-566-1) (2025)
3. Sanger A., **Arif M.**, Shkir M., “Challenges and Future Prospects” Novel Multifunctional Materials for Modern Technology, [*Indexed: Web of Science*] (Apple Academic Press, CRC Press, a Taylor and Francis Group, ISBN 978-1-77964-566-1) (2025)

CONFERENCES PAPERS (INTERNATIONAL/NATIONAL)

1. **Arif M.**, Khan Z.R., Siddhartha, Singh A., “Growth and Characterization of Poly Crystalline ZnO thin film”, **Symposium on Nanotechnology an Interdisciplinary Aspect** held at YMCA University of Science & Technology, Faridabad, 12th December 2012.
2. **Arif M.**, Singh A., Gupta V., Tandon R.P., “Structural and optical properties of ZnO thin films by sol-gel Processing”, **International Conference on Technologically Advanced Materials and Asian Meeting on Ferroelectricity (ICTAM-AMF10)** held at University of Delhi, Delhi, 07-11th November 2016.
3. **Arif M.**, Sanger A., Vilarinho Paula M., and Singh A., “Structural, Optical and vibrational properties of Sol-gel deposited ZnO thin films”, **International Conference on Thin Films (ICTF-17)** held at National Physical Laboratory, Delhi, 13- 17 Nov. 2017.
4. **Arif M.**, Sanger A., & Singh A., “Synthesis, Characterization of NiO nanoparticles for gas sensor”, **National Conference on Nano-Polysaccharides for Environmental Sustainability (NPES2019)**, held at Jamia Millia Islamia, New Delhi, India, 25th September 2019.
5. **Arif M.**, Singh A., “Linear and Nonlinear Optical Properties of Al-doped ZnO nanorods”, **National Conference on Advanced Functional Materials-2019 (NCAFM-2019)** held at Jamia Millia Islamia, New Delhi, India, 20-21st November 2019.
6. **Arif M.**, Shkir M., & Singh A., “Linear and Nonlinear Optical Properties of Mg Doped ZnO thin films”, **JTA Multidisciplinary**

International Conference, held at Jamia Millia Islamia, New Delhi, 16-18 February 2020.

7. **Arif M.**, & Shkir M., “Effect of dipping cycles on electrical and gas sensing performance of SILAR deposited ZnO films”, **1st International Interdisciplinary Science Congress: Young Scholars’ Meet**, held at Jamia Millia Islamia, New Delhi, 09 October 2024
8. **Arif M.**, Sanger A., & Shkir M., “Copper doped zinc oxide sputtered thin films for NO₂ gas sensing applications”, **BIOPHYSIKA 2024, National Conference on Interdisciplinary Sciences**, held at Jamia Millia Islamia, New Delhi, India, 21st November 2024.

TRAINING, TUTORIALS, INTERNATIONAL/NATIONAL WEBINARS, AND FDPs PARTICIPATION

1. Participated in “One Day Online Workshop entitled, Enhancing Research Communication Skills through Science Direct and Mendeley”, organized by Internal Quality Assurance Cell (IQAC) and School of Education (SoE) (PMMMNMST), Faculty of Education, Dayalbagh Educational Institute, Dayalbagh Agra, in collaboration with Elsevier, held on 3rd May 2020.
2. Participated in “Weekly Webinar Series Water challenges during and post COVID-19”, organized by IIT Madras, held on 07-28th May 2020.
3. Participated in the “Live webinar on Assessment and Evaluation in Outcome-Based Education”, hosted by the Office of Controller of Examination, G.T.N. Arts College (Autonomous), Dindigul, Tamil Nadu, affiliated to Madurai Kamaraj University, Tamil Nadu, India, held on 11th May, 2020
4. Participated in “Webinar on Biomedical Applications of Raman Spectroscopy”, organized by the Department of Physics, Lucknow University, held on 11th May 2020.
5. Participated in the “Live webinar on Career Opportunities in Research and Government Services”, organized by the PG Department of Physics, G.T.N. Arts College (Autonomous), Dindigul, Tamil Nadu, held on 13th May 2020
6. Participated in “IDL LITE Talks Webinar”, organized by IIT Bombay, held on 16th May 2020.
7. Attended 2 2-day webinars on “Startup Lifecycle and Patent Registration”, jointly organized by ACE Innovation Cell, IPR Cell, ACE Institution Innovation Council- MHRD, ACE- Incubation Centre- MSME, IEDC-DST, ACE Ember Ecell NEN, Atharva College of Engineering, held on 18th - 19th May 2020.
8. Participated in the “International Webinar on Materials for Energy, Environment and Healthcare Applications”, organized by the Department of Chemistry, The Gandhi gram Rural Institute - DTBU, Gandhi gram, Tamil Nadu, held on May 21-22nd, 2020.
9. Participated in the “Live webinar on Creating super power thoughts”, organized by G.T.N. Arts College (Autonomous), Dindigul, Tamil Nadu, held on 23rd May 2020
10. Participated in “Webinar on Building Entrepreneurial Mindset in the time of Pandemic”, organized by Internal Quality Assurance Cell, Vivek College, Bijnor, held on 24th May, 2020.
11. Participated in the “webinar on Art of Writing Research Paper”, organized by the Department of Computer Science and Engineering, University School of Information and Communication Technology, Gautam Buddha University, Greater Noida, Uttar Pradesh, INDIA, held on May 29th, 2020.
12. Participated in “National Webinar on Role of Science and Technology in the present scenario: A sustainable development of the nation”, organized by Department of Physics, Bareilly College, Bareilly, UP. India held on 31st May, 2020.
13. Participated in “International online conference on current pandemic and beyond: The Physicists' response”, organized by Department of Physics, Manipal University, Jaipur, Rajasthan, held on 02nd June 2020
14. Participated in the “webinar on Protecting Endangered Species”, jointly organized by G.T.N. Arts College, Dindigul, and PUSHKARAM College of Agriculture Sciences, Pudukkottai, held on 5th June 2020.
15. Completed “One-week National Online Teachers/ Faculty Development Program (FDP) on E-Learning and ICT Tools for Effective Teaching -Learning”, organized by Aravali College of Advanced Studies in Education, Pali, Faridabad, from 8th to 13th June 2020.
16. Participated in the “2 Days Webinar on Nanoscience and Nanotechnology in the Present Scenario”, jointly organized by the School of Physical Science and Special Centre for Nanoscience, JNU, held on 09-10 June 2020.
17. Participated in “National Webinar on Recent Advances in Physics”, organized by the Department of Physics and IQAC, Government College for Men, Kurnool, held on 10th June 2020.
18. Attended “A Three-Day National Webinar on School Academic Excellence and Leadership: Challenges & Opportunities”, organized by the School of Education, Galgotias University, Uttar Pradesh, Greater Noida, held on 12th – 14th June 2020
19. Attended a “live international webinar on Origin of Universe: Scientific and Vedic Perspectives”, organized by QUBIT, the Physics Society, held on 12th June 2020.
20. Participated in the “National Webinar entitled Recent Research Trends in Chemistry”, organized by the Department of Chemistry, Nevjabai Hitkarini College, Bramhapuri, held on 13th June 2020.
21. Participated in the “2 Days Webinar on Recent Advances of Nanoscience and its Applications”, organized by the Special Centre

- for Nanoscience, JNU, held on 27-28 July 2020.
22. Attended the “Webinar 4.0 with Prof. Federico Capasso on Flat Optics Based on Meta Surfaces”, organized by IIT Delhi, held on 14th October 2020
 23. Attended “webinar on Artificial Intelligence and its Applications in Education”, organized by the School of Education, Galgotias University, Uttar Pradesh, Greater Noida, held on 16th October 2020.
 24. Participated in “webinar on Challenges and Opportunities in Polar Research”, organized by the Department of Environmental Science, Jamia Millia Islamia (Central University), New Delhi -25, India, held on 10th December 2020.
 25. Participated in the “World Education Conference (WEC 2021)”, jointly organized by The Policy Times & Shiv Nadar University, held on 15th - 17th January 2021.
 26. Participated in “Two Days Seminar on National Education Policy 2020: A Gateway to Academic Excellence”, by Galgotias University on 17th – 18th Feb 2021.
 27. Participated in “One Day Workshop on National Education Policy-2020: Opportunities in Research and Innovation”, organized by the School of Physical Sciences, JNU, New Delhi on 31st March 2021.
 28. Participated in “Virtual Seminar on Intellectual Property Rights (especially on Patents)”, organized by Central Instrumentation Facility (CIF), JMI New Delhi on 28th February 2022.
 29. Participated in “Virtual Workshop on Characterization Techniques of Materials and Devices as part of the CSIR Integrated Skill Initiative Programme”, organized by CSIR-NPL Delhi on 14-15th March 2022.
 30. Completed the two-week National Online Teachers/ Faculty Development Program (FDP) “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by MMTTC, Jamia Millia Islamia, New Delhi from 02nd April to 16th April 2024.
 31. Participated in the AICTE Recognized Faculty Development Program (FDP) on Applications of Technology in Environmental Sustainability Organized by Applied Science Department, NSUT New Delhi from 16th December to 20th December 2024.

CO-CURRICULAR ACTIVITIES

1. Volunteered at the “National Seminar on Nanoscience and Nanotechnology”, organized by the Department of Physics, Jamia Millia Islamia, New Delhi, 3rd – 4th February 2009.
2. Volunteered for “International Workshop on Physics of Semiconductor Devices (IWPSD 2009)”, jointly organized by the Department of Physics & SSPL DRDO, held at Jamia Millia Islamia, New Delhi, held on 14-18 December 2009.
3. Volunteered for “International Workshop on Interdisciplinary Research”, organized by CIRBSC, held at Jamia Millia Islamia, New Delhi, held on 3rd – 5th August, 2010.
4. Volunteered for “National Seminar on Condensed Matter and High Energy Physics”, organized by the Department of Physics, held at Jamia Millia Islamia, New Delhi, held on 17th – 18th February 2012.
5. Participated in “National Workshop on Nanotechnology and Embedded System”, organized by the Department of Applied Science and Humanities, held at YMCA University of Science & Technology, Faridabad, from 23rd July to 3rd August 2012.
6. Participated in “Symposium on Nanotechnology and an Interdisciplinary Aspect”, organized by the Department of Applied Science and Humanities, held at YMCA University of Science & Technology, Faridabad, on 12th December 2012
7. Participated in “National Seminar on Photonic & Optical Materials”, organized by the Department of Physics, held at Jamia Millia Islamia, New Delhi, on 21st January 2016.
8. Participated in “International Conference on Technologically Advanced Materials and Asian Meeting on Ferroelectricity (ICTAM-AMF10)”, organized by the Department of Physics & Astrophysics, University of Delhi, held on 07-11th November 2016
9. Participated in “Seminar on Hybrid materials based on organic dyes and layered silicates: Fundamentals and potential applications”, organized by MCARS held at Jamia Millia Islamia, New Delhi, held on 21st February 2017.
10. Participated in “International Conference on thin films (ICTF-17)”, organized by CSIR NPL, held at National Physical Laboratory, Delhi, held on 13-17th November 2017.
11. Volunteered for “National Science Day 2018”, jointly organized by the Indian National Science Academy and Indian Academy of Science, held at the Indian National Science Academy, New Delhi, on 28th February 2018.
12. Participated in “Seminar on Functional genomic screen using CRISPR/Cas9 based genome editing for Human diseases”, organized by Centre for Interdisciplinary Research in Basic Sciences, held at Jamia Millia Islamia, New Delhi-25, held on 30th July 2018.
13. Participated in “Seminar on Confocal Raman Microscope with 3D Mapping and its application in Biotechnology, Pharmaceutical Science, Materials and Health Science”, organized by Centre for Interdisciplinary Research in Basic Sciences, held at Jamia Millia Islamia, New Delhi-25, held on 10th August 2018.
14. Participated in “Hands-on Workshop on Prometheus NT.48 and Nano DSF by Nano temper” organized by the Centre for Interdisciplinary Research in Basic Sciences, held at Jamia Millia Islamia, New Delhi-25, held on 22nd- 23rd July 2019.

15. Participated in “Seminar Lectures on Sensors for Health Care Applications” organized by the Department of Electrical Engineering, Faculty of Engineering & Technology, held at Jamia Millia Islamia, New Delhi-25, on 24th September 2019.
16. Participated in “National Conference on Nano-Polysaccharides for Environmental Sustainability (NPES-2019)”, organized by the Department of Chemistry, held at Jamia Millia Islamia, New Delhi, India, on 25th September 2019.
17. Participated in “Distinguished Lecture under IEEE Day 2019” celebration by JMI IEEE EMBS Student Branch chapter of Delhi Section, organized by the Department of Electrical Engineering, Faculty of Engineering & Technology, held at Jamia Millia Islamia, New Delhi-25, held on 03rd October 2019.
18. Volunteered for “International Conference on Power Electronics, Control & Automation (ICPECA1019)”, organized by Department of Electrical Engineering, Faculty of Engineering & Technology, held at Jamia Millia Islamia, New Delhi-25, India, held on 16-17th November 2019.
19. Participated in “National Conference on Advanced Functional Materials (NCAFM-2019)”, organized by the Department of Chemistry, held at Jamia Millia Islamia, New Delhi, India, on 20- 21 November 2019.
20. Participated in “JTA Multidisciplinary International Conference (JTACON-2020)”, organized by Jamia Teachers Association (JTA), held at Jamia Millia Islamia, New Delhi, held on 16- 18 February 2020.
21. Participated in “National Symposium on Advances in Materials Science and Theoretical Physics”, organized by the Department of Physics, held at Jamia Millia Islamia, New Delhi, held on 19–20th February 2020.
22. Volunteered for the “International Women’s Day Programme”, organized by the Department of Physics, held at Jamia Millia Islamia, New Delhi, on 06th March 2020.

SYMPOSIUM/ WORKSHOP/ LECTURES PARTICIPATED

1. Participated in a Public lecture by Professor Vinay Gupta, Department of Physics and Astrophysics, University of Delhi, Delhi -110007 held at JMI, 09th October, 2009.
2. Participated in a Public lecture by Dr. G. Bagawanarayan, Chief Scientist, NPL, held at JMI on 05th December 2009.
3. Participated in the Ninth Abdus Salam Memorial lecture by Prof. R Rajaraman, JNU, held at JMI, 24th February. 2012.
4. Participated in a Public lecture by Prof. Paula M. Viliarinho, Department of Materials and Ceramic Engineering, University of Aveiro, 3810-193 Aveiro, Portugal, held at JMI, 15th March 2012.
5. Participated in a Public lecture by Professor Ashok Kumar, Director, Nanotechnology Research & Education Centre (NREC), USA, held at JMI on 19th March, 2012.
6. Participated in a Public lecture by Professor Uma Thanganathan, Research Core for Interdisciplinary Sciences (RCIS), Okayama University, Tsushima-Naka, Okayama, Japan, held at JMI, 20th April 2012.
7. Participated in a Public lecture by Professor Ram S Katiyar, Spec Lab, Department of Physics, University of Puerto Rico, San Juan, PR 00931-3343, USA, held at JMI on 5th December 2012.
8. Participated in a Public lecture by Professor Ram S Katiyar, Spec Lab, Department of Physics, University of Puerto Rico, San Juan, PR 00931-3343, USA, held at the University of Delhi, 5th January 2013.
9. Participated in the Tenth Abdus Salam Memorial lecture by Prof. Tariq Aziz, TIFR, held at JMI, on 30th January 2013.
10. Participated in the Eleventh Abdus Salam Memorial lecture by Prof. S.R. Shenoy held at JMI, on 17th February 2014.
11. Participated in Twelfth Abdus Salam Memorial lecture by Prof. K.V. Raghavan held at JMI, on 11th February 2015.
12. Participated in the thirteenth Abdus Salam Memorial lecture by Prof. D. K. Srivastava held at JMI, on 26th February 2016.
13. Participated in a public lecture by Prof. Paula M. Viliarinho, Department of Materials and Ceramic Engineering, University of Aveiro, 3810-193 Aveiro, Portugal, held at JMI, 09th November 2016.
14. Participated in a Public lecture by Dr. Irshad Mohammed, Fermi National Accelerator Laboratory (Fermi-lab), USA, held at JMI, on 17th January 2017.
15. Participated in the MCARS Inaugural Lecture by Prof. Jayant V. Narlikar, Padma Vibhushan and Emeritus Professor, Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, India, held at JMI on 13th February 2017.
16. Participated in Fourteenth Abdus Salam Memorial lecture by Prof. Balasubramanian Iyer, TIFR Mumbai, held at JMI, 14th February 2017.
17. Participated in an extension lecture by Prof. V.D. Vanker, Indian Institute of Technology Delhi, held at Centre for Nanoscience and Nanotechnology JMI, 28th March 2017.
18. Participated in a Public lecture by Dr. Prabhat Jaiswal, Weizmann Institute of Science, Israel, at JMI, 18th August 2017.
19. Participated in a Public lecture by Prof. Allen P. Pinton, National Institutes of Health, USA, at JMI, 24th October 2017.
20. Participated in the Fifteenth Abdus Salam Memorial lecture by Prof. Krishan Lal, Former Director, CSIR-NPL at JMI, 07th February 2018.
21. Participated in a Public lecture by Dr. Mukti M. Rana, Delaware State University, USA, at JMI, 03rd August 2018.
22. Participated in a Public lecture by Prof. Der-Jun Jang, National Sun Yat-sen University of Kaohsiung, Taiwan, at JMI, 12th

December 2018.

23. Participated in a Public lecture by Dr. Dhruva Jyoti Basu Roy, City of Hope Cancer Centre, Duarte, California, USA, at JMI, 12th December 2018.
24. Participated in a Public lecture by Ms. Tania Paul, IISER Triputi, India, at JMI, 20th December 2018.
25. Participated in the Sixteenth Abdus Salam Memorial lecture by Prof. V. Balakrishnan, IIT Madras, at JMI, 05th March 2019.
26. Participated in a Seminar by Prof. Der-Jun Jang, National Sun Yat-sen University of Kaohsiung, Taiwan, at JMI, 12th March 2019.
27. Participated in a Seminar by Dr. Aga Shahee, Seoul National University, Seoul, Korea, at JMI, 30th July 2019
28. Participated in a Public lecture by Prof. Jayant V Narlikar, Emeritus Professor, Inter University Centre for Astronomy & Astrophysics, Pune, India, at JMI, 14th October 2019.
29. Participated in a Public lecture by Dr. Bhabesh Chakrabarti, Sr. Project Manager, Venila North America, USA, at JMI, 14th October 2019.
30. Participated in a Public lecture by Prof. Shankar Ghosh (Bhatnagar Awardee, 2019) at Tata Institute of Fundamental Research (TIFR), Mumbai, India, at JMI, 13th November. 2019.
31. Participated in a Public lecture by Prof Shyama Rath, Department of Physics and Astrophysics, University of Delhi, Delhi -110 007, on 06th March 2020.
32. Participated in the Seventeenth Abdus Salam Memorial lecture by Prof. C. S. Unnikrishnan, TIFR, Mumbai, at JMI, 12th March 2020.
33. Participated in National Science Day lecture by Prof. Amit Roy, Former Director, IUAC, New Delhi, at JMI, 28th February 2021.
34. Participated in the Centenary lecture by Prof. Ashutosh Sharma, Secretary, DST, Govt. of India, at JMI, 10th March 2021.
35. Participated in a Public lecture by Prof. Joby Joseph, Indian Institute of Technology Delhi, at JMI, 27th February 2021.
36. Participated in a Public lecture by Prof. Venugopal Achanta, Director, CSIR-National Physical Laboratory at CSIR-NPL, 04th December 2021.

REVIEWER OF THE JOURNALS

1. Indian Journal of Chemical Technology, (**CSIR-NISCAIR I.F.-0.76**)
2. Journal of Optoelectronic and Advanced Materials, (**INOE Publishing House, I.F.-0.58**)
3. Indian Journal of pure and applied Physics, (**CSIR-NISCAIR, I.F.-0.846**)
4. Journal of Sol-Gel Science and Technology (**Springer, IF = 2.5**)
5. Optical and Quantum Electronics (**Springer, IF = 3.0**)
6. Journal of Inorganic and Organometallic Polymers and Materials (**Springer, IF = 4.0**)
7. Silicon (**Springer, IF = 2.8**)

REFERENCES

1. **Prof. Paula M. Viliarinho**, Department of Materials & Ceramic Engineering, University of Aveiro, Aveiro-3810-193, **Portugal**
Tel: 351 234 370 354/270, Fax: 351 234 370 204. E-mail: [paula.viliarinho@ua.pt](mailto:Paula.viliarinho@ua.pt),
Web Page: www.electroceramicsgroup.org
2. **Prof. Mohd. Shkir**, Department of Physics, College of Science, King Khalid University, Post Box- 9004, Abha-61413, **Kingdom of Saudi Arabia (KSA)**, Contact No.+966 530683673, +966 72418319 (O)
E-mail: shkirphysics@kku.edu.sa (Primary), shkirphysics@gmail.com (Secondary).
3. **Prof. Yogendra Kumar Mishra**, Nano-SYD, Mads Clausen Institute, University of Southern Denmark, Alsion 2, Sønderborg, 6400, **Denmark**, Tel: +4565507623, E-mail: mishra@mci.sdu.dk
Web Page: <https://portal.findresearcher.sdu.dk/en/persons/mishra>

I hereby declare that all the information given above is true to the best of my knowledge and belief.

PLACE: New Delhi

DATE: 20th October 2025



(Dr. Mohammed Arif)