

SAIQA IKRAM

Professor-in-Chemistry
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<https://scholar.google.co.in/citations?user=gCO5YZoAAAAJ&hl=en>
<https://jmi.irins.org/profile/210402>

Teaching experience UG & PG

~18 years (Inorganic Chemistry)

Research Experience (excluding Ph.D. tenure)

~15 years (Polymer Technology)

Subject Specialization

- **Inorganic Chemistry**
- **Polymer Science & Technology**
- **Biomedical Engineering**

Positions (Service in Jamia):

1. Professor, Feb 22, 2021 to till date
2. Associate Professor, Feb 22, 2018 – Feb 21, 2021
3. Assistant Professor-February 2006-Feb 21, 2018

Fellowships Conferred

- **Junior Research Fellowship** sponsored by University Grants Commission, India 1995
- **Senior Research Fellowship** sponsored by Council for Scientific & Industrial Research India; 2000
- **Research Associate** sponsored by Council for Scientific & Industrial Research, India; 2001

Awards & Recognition

1. *Oct, 2017-Best Innovative Project Award*
USAID & TERI
2. *Aug, 2018-Nobel Scientist Award –RULA International Award-‘08’*
IJRULA-International Journal for Research Under Literal Access
3. *March 08, 2019- Life Time Achievement Award*

IconPAC 2019 Recent Advances in Chemical Science,
K L University, Green Fields Vaddeswaram, Guntur District, Andhra Pradesh, India

Invited Talks 35

Conference Attended 60

Research Involvement

- **Established Research Infrastructure:** Biomedical-Antimicrobial Research Lab
funded by Department of Biotechnology, Ministry of Sci & Tech, India

- **Ph.D. Supervision(s)**

Awarded	12
Submitted	02
Enrolled	05
Post-Docs	03

- **M.Sc. Project guidance** (till date) 30

- **Research Projects** (*Grant mobilized ~INR 2.8 Crores*) (Total 07 in numbers)

1. Development of Hydrogels based Smart Wound Dressings:

Department of Biotechnology, Ministry of Sci & Tech, India,
BT/PR10215/MED/32/24/2007 (LETTER-II): Dated: July 2008

2. Studies for the Sulphonation of Co-polymer Grafted PEEK Films:

University Grants Commission, 41-1321/2012(SR): Dated: 30 July 2012

3. Phytochemical Analysis of Bioactive Constituents of Commonly Used Plants & Development of Antimicrobial Activities Thereof:

University Grants Commission, 42-269/2013(S.R): Dated 01 April 2013

4. In-situ Nano-silver Formation based on Biopolymer Hydrogel Membranes for Antimicrobial Activity:

Jamia Millia Islamia–Innovative Funding, AC-6(15)/RO/2014 Dated: April 07, 2014

5. Development of Green Adsorbents for Removal of Copper/Lead/Mercury Metal Ions from Groundwater for Potability:

USAID-TERI under SWASH Scheme, NIL/2016-2017 dated June 2016 (Best Innovation Award)

6. Preparation of Nanocellulose as Multifunctional Materials derived from Biomass towards Sustainable Development:

Scheme for Promotion for Academic & Research Collaboration (SPARC), Ministry of Human Resources & Development (MHRD, Government of India; SPARC/2018-2019/P672/SL dated 15.03.2019, Feb 2019 to 2021; INR ~82,00,000) in collaboration with Australian Institute of Bioengineering & Nanotechnology (AIBN) The University of Queensland, Brisbane, Australia -(ONGOING)

7. Single/ Binary Metal Nanoparticles Loaded Nano-Carriers Using Medicinal Plants Extract and Their Application in Tissue Culture Medium as Media Additive for Optimizing Laboratory Production of Bovine Embryos:

India-Egypt S & T Cooperation: Department of Science & Technology, Govt. of India and Academy of Scientific Research and Technology (ASRT), Egypt, DST/INT/Egypt/P-05/2019 in collaboration with Department of Theriogenology, Faculty of Veterinary Medicines, Beni-Suef University Egypt) Feb 2020-2022 (INR 13,50,000+ Egyptian Dimes 4,50,000) -(ONGOING)

Research Papers in Journals (2010 Onwards)

Patent: *Polyvinyl alcohol Supported Resins for Arsenic Separation and the Product there of (with IIT Delhi)*

Publisher	No. of Paper published	Highest Impact	Prominent Journals
American Chemical Society	2	4.51	ACS Omega
Royal Society of Chemistry	2	3.52	RSC Advances, Toxicology Research
Elsevier	48	14.47	Carbohydrate Polymers, Journal of Photochemistry and Photobiology B, International Journal of Biological Macromolecules, J of Hazardous Materials
Wiley	6	3.56	Polymer Bulletin, Journal of Applied Polymer Science etc
Springer	8	4.32	Journal of Materials Science: Materials in Electronics
Others (Taylor & Francis ASP, IMED, WST)	26	8.44	Sensors Letters, Water Science & Technology etc

Books Authored/ Edited:

- 1) **Natural Polymers: Derivatives, Blends and Composites Volume I**
Nova Science Publishers, Inc. New York, USA; ISBN:978-1-63485-831-1
- 2) **Natural Polymers: Derivatives, Blends and Composites Volume II**
Nova Science Publishers, Inc. New York, USA; ISBN: 978-1-53610-426-4
- 3) **Chitosan: Derivatives & Composites for Their Applications**
Scrivener Publishing + Wiley, USA; ISBN: 978-1-119-36350-7
- 4) **Green Polymeric Materials: Advances and Sustainable Developments**
Nova Science Publishers Inc. New York, USA; ISBN: 978-1-53612-240-4
- 5) **Biocomposites: Biomedical & Environmental Applications**
PanStanford Publishers- CRC Press, Singapore; ISBN 9789814774383 - CAT# N11974
- 6) **Photocatalysis: Perspective, Mechanism & Applications**
Nova Science Publishers, Inc. New York, USA ISBN: 978-1-53616-044-4
- 7) **Bionanocomposites: Green Synthesis and Applications; 1st Edition,**
Elsevier, Paperback ISBN: 9780128167519 eBook ISBN: 9780128168905
- 8) **Innovation in Nano-polysaccharides for Eco-sustainability; From Science to Industrial Applications, 1st Edition**
Elsevier, eBook ISBN: 9780128234457; Paperback ISBN: 9780128234396, Published Date: 8th October 2021

Chapters in other Books

35

Administration/Corporate Contribution

1. **Warden**, Hall of Girls Residence, Jamia Millia Islamia 2014-2016
2. **Assistant Proctor**, Jamia Millia Islamia (2008-2009)
3. **Moderator-PLASTINDIA**- Exhibition & International Conference-2012
4. **Secretary**-Asian Polymer Association (2 terms) 2009-2013
5. **Member (Elected)**, Executive Council, Jamia Teachers Association 2012-2014
6. **Member (Elected)**, Academic Council, Jamia Millia Islamia 2019-2021
7. **Joint Secretary (Elected)**, Jamia Teachers Association 2020-2022

Educational Qualifications

***Degrees (in Chronological Order)**

M.Sc.	Dev Nagri Degree College, CCS University, Meerut (UP)	Ist Rank
Ph.D.	Faculty of Technology, Delhi College of Engineering, University of Delhi, Delhi, India Year 2000	JRF (UGC) & SRF (CSIR)
Post-Doc-	Centre for Biomedical Engineering, Indian Institute of Technology, Delhi, India Year 2001	RA (CSIR)

S. No.	Degree	University/ Institution	Subject	Division
a.	X th	U. P. Board, Allahabad	Science Discipline	I st
b.	XII th	----do-----	Science Discipline	I st
c.	B.Sc.	C C S University, Meerut	Life Sciences	I st

H index	31 till date
I10 index	51 till date
Citations	≥7216 till date