

BIO-DATA

1. Name and full correspondence address: **Dr Aabid Hussian Shalla**
Shadab Lane Usmania Colony Srinagar Kashmir
190009
2. Email(s) and contact number(s) aabid.shalla@islamicuniversity.edu.in
+919419355988
3. Institution Islamic University of Science and Technology
4. Date of Birth 01/09/1981
5. Gender (M/F/T) M
6. Category Gen/SC/ST/OBC G
7. Whether differently abled (Yes/No) No
8. Academic Qualification (Undergraduate Onwards)

S No	Degree	Year	Subject	University/Institution	%marks
1	BSc (HONS)	2003	Chemistry	AMU	66.8
2	MSc	2005	Chemistry	AMU	71.29
3	PhD	2008	Chemistry	AMU	NA
4	PGDCI	2006	Chemo informatics	Jamia hamdard	64

9. Ph.D thesis title, Guide’s Name, Institute/Organization/University, Year of Award.
*Synthesis, Characterization and Analytical Application of inorganic and Inorganic-Organic Composite Ion Exchange Materials. Professor Syed Ashfaq Nabi, **Aligarh Muslim University, 2008***

10. Work experience (in chronological order).

S No	Position Held	Name of institution	From	To	Pay Scale
1	Research Officer	Glenmark Pharmaceutical	20/10/2008	25/08/2009	17241-18750 (6000)
2	Assistant professor	Islamic University of Science and Technology	26/08/2009	14/02/2014	13500-39100 (6000)
3	Assistant professor (Senior Scale)	Islamic University of Science and Technology	15/02/2014	03/05/2021	13500-39100 (7000)
4	Associate Professor	Islamic University of Science and Technology	03/05/2021	Till date	37400 -67000 (9000)
5	Deputy Director (DIQA)	Islamic University of Science and Technology	04/02/2020	Till date	Additional responsibility for Quality Improvment

11. Publications (List of papers published in SCI Journals, in year wise descending order).

Authors	Title	Name of Journal	Vol	Page	Year
Aabid H Shalla , Mushtaq A Bhat, Riyaz Ahnad Rather	PEDOT and PEDOT:PSS conducting polymeric hydrogels: A report on their emerging applications	Synthetic Metals	273	116709	2020
Aabid H Shalla , Mushtaq A Bhat, Zahid Yaseen	Hydrogels for removal of recalcitrant organic dyes: A conceptual overview	Journal of Environmental Chemical Engineering	6	5938-5949	2019
Aabid H Shalla , Mushtaq A Bhat, Zahid Yaseen, Tuaseef A Rangreez, Masrat Maswal	Recent review for removal of metal ions by hydrogels	Separation Science and Technology	54	89-100	2019
Aabid H Shalla , Tuaseef A Rangreez, Masood A Rizvi, Zahid Yaseen	Strength and Sorption capacity modulation of carboxymethylcellulose hydrogels in presence of ester-bonded Gemini surfactants	Journal of Molecular Liquids	238	215-224	2018
Masood A Kaloo, Bashir A Bhat, Aabid H Shalla	Abiotic Fluorescent Receptors for Detection of Pb ²⁺ in Aqueous Media as well as Living Cells: Mechanistic and Sensing Aspects	Biomarkers Journal	3	14	2017
AR Bhat, Aabid H Shalla , RS Dongre	Synthesis of new annulated pyrano [2, 3-d] pyrimidine derivatives using organo catalyst (DABCO) in aqueous media	Journal of Saudi Chemical Society	21	S305-S310	2017
AR Bhat, RS Dongre, Aabid H Shalla , Gowhar A Naikoo, Israr Ul Hassan	Computational analysis for antimicrobial active pyrano [2, 3-d] pyrimidine derivatives on the basis of theoretical and experimental ground	Journal of the Association of Arab Universities for Basic and Applied Sciences	20	19-25	2016
AR Bhat, Aabid H Shalla , RS Dongre	Dibutylamine (DBA): A highly efficient catalyst for the synthesis of pyrano[2,3-d]pyrimidine derivatives in aqueous media	Journal of Taibah University for Science	10	9-18	2016
Zahid Yaseen, SU Rehman, M Tabish, Aabid H Shalla	Modulation of bovine serum albumin fibrillation by ester bonded and conventional Gemini surfactants	RSC Advances	5 (72)	58616-58624	2015
AR Bhat, Aabid H Shalla , RS Dongre	Microwave assisted one-pot catalyst free green synthesis of new methyl-7-amino-4-oxo-5-phenyl-2-thioxo-2, 3, 4, 5-tetrahydro-1H-pyrano [2, 3-d] pyrimidine-6-carboxylates as ...	Journal of advanced research	6 (6),	941-948	2015
M Shahadat, Aabid H Shalla , AS Raeissi	Synthesis, characterization, and sorption behavior of a novel composite cation exchange adsorbent	Industrial & engineering chemistry research	51 (47),	15525-15529	2013
Syed A Nabi, M Shahadat, Aabid H Shalla , AMT Khan	Removal of heavy metals from synthetic mixture as well as pharmaceutical sample via cation exchange resin modified with rhodamine B: its thermodynamic and kinetic studies	CLEAN–Soil, Air, Water	39 (12),	1120-1128	2012

Syed A Nabi, M Shahadat, R Bushra, Aabid H Shalla	Heavy-metals separation from industrial effluent, natural water as well as from synthetic mixture using synthesized novel composite adsorbent	Chemical engineering journal	175	8-16	2011
Syed A Nabi, M Shahadat, R Bushra, Aabid H Shalla , A Azam	Synthesis and characterization of nano-composite ion-exchanger; its adsorption behavior	Colloids and Surfaces B: Biointerfaces	87 (1)	122-128	2011
SyedA Nabi, M Shahadat, R Bushra, AabidH Shalla , F Ahmed	Development of composite ion-exchange adsorbent for pollutants removal from environmental wastes	Chemical Engineering Journal	165 (2),	405-412	2010
Syed A Nabi, Aabid H Shalla	EDTA-stannic (IV) iodate: preparation, characterization and its analytical applications for metal content determination in real and synthetic samples	Journal of Porous Materials	16 (5),	587-597	2009
Syed A Nabi, Aabid H Shalla	Synthesis, characterization and analytical application of hybrid; acrylamide zirconium (IV) arsenate a cation exchanger, effect of dielectric constant on distribution ...	Journal of Hazardous Materials	163 (2-3),	657-664	2009
Syed A Nabi,Sajad A Ganai, Aabid H Shalla	New Organic-Inorganic Type <i>Acrylamide Aluminumsulfate</i> : Preparation, Characterization and Analytical Applications as a Cation Exchange Material	Separation Science and Technology	43 (14),	3695-3711	2008
Syed A Nabi, Aabid H Shalla	Poly (vinyl chloride) based ion selective electrode for determination of Zr(IV) ions based on 2,6 Dibenzyldenecyclohexanone, Sensors and Transducers	Sensors and Transducers			2008
Syed A Nabi, Aabid H Shalla , Amjad Mumtaz Khan, Sajad A Ganie	Synthesis, characterization and analytical applications of titanium (IV) molybdosilicate: a cation ion-exchanger	Colloids and Surfaces A: Physicochemical and Engineering Aspects	301	241-250	2007

Conference	Title	Name of Conference	Venue
1	Synthesis, Rheological characterization of chitosan formaldehyde hydrogel in presence of CTAB surfactant	13 th J and K Science Congress	University of Kashmir
2	Microwave synthesis of Bile salt Acryamide supramolecular hydrogel, self-healing and thermo responsive	12 th J and K Science Congress	Jammu University
3	Synthesis, Rheological behavior of chitosan formaldehyde hydrogel	International Conference on Recent Trends in Chemical Sciences	Jewaji University, Gwalior
4	Thin layer Chromatographic separation of alkaloids on stannic oxide and stannic oxide : silica gel layers	International conference on global trends in pure and applied chemical sciences	Rajasthan University
5	pH dependent synthesis of Environmentally hybrid Hydrogels characterized by rheological and sorption studies	24 th CRSI National Symposium in Chemistry	IIT Madras, Chennai
6	Hydrogen storage an alternate source for sustainable development	International Conference on sustainable development and technological innovations	Islamic University of Science and Technology
7	New organic –inorganic acrylamide titanium (IV) arsenate, synthesis characterization and its use as Th(IV) selective electrode	8th Singapore International Chemistry Conference 2014	Singapore National University

12. Books/Reports/Chapters/General articles etc

S No	Title	Author name	Publisher	Year of Publication
1	Fabrication of Polyaniline Supported Nanocomposites and Their Sensing Application for Detection of Environmental Pollutants (Modern age Waste Water Problems)	Mohammad Shahadat Mohammad Oves Aabid Hussain Shalla Shaikh Ziauddin Ahammad S. Wazed Ali	Springer	2020
2	Nanoparticles; Their Use as Antibacterial and DNA Cleaving Agents	Irshad Ahmad Bhar, ayyed Jaheera Anwar Emamalar Subramaniam Aabid Hussain Shalla	Springer	2019
3	Formulation of pH sensitive Hydrogels	Aabid H Shalla, Zahid Yaseen, Mushtaq Ahmad Bhat	Lambert	2018
4	Intelligent Hydrogels; pH responsive Hydrogels for smarter drug delivery	Aabid Hussian Shalla , Mushtaq Ahmad Bhat		2018

13. Any other Information (maximum 500 words)

Research Experiences

- Synthesis of Hydrogels for waste water treatment and drug delivery
- Synthesis of organic-inorganic ion exchangers
- Thin layer chromatography separation of alkaloids and their quantitative determination
- Synthesis of ion-selective electrodes
- Characterization of ion-exchangers by different technique (FTIR, TGA-DTA, SEM)
- Spectroscopic determination of different metal ion in waste waters
- Techniques HPLC, FTIR, TGA-DTA, UV-VIS spectrophotometer, X-ray powder diffraction, pH meter, potentiometer, Spectrophotometer.

Research Guidance

MSc

1. Synthesis and Characterization of Graphene oxide carboxymethylcellulose Hydrogels
2. Graphene oxide based cross linked chitosan Hydrogels: synthesis, characterization and applications.

PhD

1. Development and Characterization of Smart Hydrogels Systems and their Applications.
2. Graphene-Oxide based Hydrogels: Synthesis Characterization and their Analytical Applications

Course taught

CHM504C	Introduction to Spectroscopic Methods	The course is intended to make students familiar with the principles of a range of commonly used spectroscopic techniques and their analytical applications. The course has high relevance in pharmaceutical/polymer/paint and other industries
CHM554C	Chromatographic Techniques	The course gives a theoretical as well as a practical introduction to principles and techniques of chromatography: adsorption and partition chromatography (normal and reversed-phase systems), thin layer chromatography (TLC), column liquid chromatography including HPLC, gas chromatography, ion exchange and size exclusion chromatography. The importance of the course has high relevance in pharmaceutical industries as it gives idea about the purification and separation.
CHM556C	Laboratory Course in Analytical Chemistry	The course is intended to provide hand on experience to students regarding the common instruments. The course intends to develop the potential in operating the instruments and carry out the analysis.
CHM605C	Advanced Laboratory Course	To develop in students the temper of designing experiments and develop in them the caliber of using different techniques and instruments in physical, analytical, organic, and inorganic chemistry. The course is design to have hand on experience to some sophisticated instruments in place like HPLC/FTIR/Florescence/UV-Vis apart from basic instruments in order to increase job prospects of students
CHM654C	Polymers and Nanotechnology	This course is designed for students to understand the relationship between polymer molecular weight, molecular weight distribution and the properties of polymeric materials and also to improve and expand skills in performing and analyzing thermal, mechanical and visco-elastic behavior of polymers with respect their chemical structure and molecular weight. It also includes the fundamental uniqueness of chemical and physical properties of nanomaterial and their potential impact in science, engineering, medicine and environment.
CHM655C	Project and Dissertation	The course is designed for the students to develop the research caliber in students. Every student is assigned the research topic relevant to current developments in research and development. The focus is on the environment, health, materials, water treatment and drug development.

Research Projects:

S.No	Title	Cost in Lakh	Start Date	End Date	Role as PI/ Co PI	Agency
1	Biocompatible Surfactant Based Hydrogels, Synthesis, Characterization and Application.	13, 50,366	01/07/2015	30/06/2018	PI	UGC
2	Extraction of essential oil from cultivated and wild plants	4,00,000	September 2018	Till date	PI	EDC-IUST
3	Triformylphloroglucinil based chemo sensors for the recognition of poly nitro aromatic compounds	12,07,000	18/06/2019	Till date	Co-PI	NPIU/AICTE

Academic Staff College Orientation/Refresher courses attended

Name of the Course	Place/institution	Duration in weeks with date(s);
Refresher Course	JNU	02/01/2017 to 27/01/2017
Refresher Course	Food and Biotechnology	31/01/2018 to 20/02/2018
Teachers Training Programme	IISc Bangalore	23/09/2016 to 13/12/2019

Research methodology Course/Workshop/FDP/MOOC Course attended

Name of the course	Place /Institution	Duration in weeks with dates	Sponsoring agency
E-governance in technical institutes	Islamic University of science and Technology	27 th to 31 July 2015	NIITR Chandigarh
Preparation of Research proposals to funding agencies	Islamic University of science and Technology	26 th to 27 th September 2017	Engineering staff college of India
2 day workshop on outcome based education	Islamic University of science and Technology	26 th to 27 th March 2018	National Board of Accreditation
Scientific and technical documentation using latex	Islamic University of science and Technology	21 st to 2 nd September 2017	Islamic University of science and Technology
Emerging Trends in Physical Chemical and Mathematical Sciences	Islamic University of science and Technology	14 th to 20 th February 2019	Islamic University of science and Technology
Summer School on Quantum Mechanics	Islamic University of science and Technology	29 th to 4 th July 2019	Islamic University of science and Technology

Conferences attended

Conference	Title	Name of Conference	Venue
1	Synthesis, Rheological characterization of chitosan formaldehyde hydrogel in presence of CTAB surfactant	13 th J and K Science Congress	University of Kashmir
2	Microwave synthesis of Bile salt Acryamide supramolecular hydrogel, self-healing and thermo responsive	12 th J and K Science Congress	Jammu University
3	Synthesis, Rheological behavior of chitosan formaldehyde hydrogel	International Conference on Recent Trends in Chemical Sciences	Jewaji University, Gwalior
4	Thin layer Chromatographic separation of alkaloids on stannic oxide and stannic oxide : silica gel layers	International conference on global trends in pure and applied chemical sciences	Rajasthan University
5	pH dependent synthesis of Environmentally hybrid Hydrogels characterized by rheological and sorption studies	24 th CRSI National Symposium in Chemistry	IIT Madras, Chennai
6	Hydrogen storage an alternate source for sustainable development	International Conference on sustainable development and technological innovations	Islamic University of Science and Technology
7	New organic –inorganic acrylamide titanium (IV) arsenate, synthesis characterization and its use as Th(IV) selective electrode	8th Singapore International Chemistry Conference 2014	Singapore National University

Hand on Experience

HPLC, Karl Fisher, Conductometer, Spectrophotometer, pH meter, Potentiometer, Flame photometer, FTIR

Seminars and Conferences

- Presented a seminar lecture on pre and post derivatization in HPLC.
- Seminar lecture on basics of Chemo informatics
- Drug Metabolism
- Paper presented in 3rd J&K Science Congress
- Paper presented in International conference at National University of Singapore
- Attended General Orientation Course Aligarh Muslim University 2012
- Attended Refresher course in chemistry at Rajasthan University Jaipur 2014
- paper presented in international conference on pure and applied chemistry Udaipur Rajasthan
- Attended 5 days’ workshop organized by Wipro technologies

Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant

- Member of Board of Studies, Department of Chemistry, Islamic University of Science and Technology
- Member of Board of Studies, Department of Industrial Chemistry, Cluster University, Kashmir
- Member of PhD statutes: Islamic University of Science and Technology
- Member of CBCS. Central Committee, Islamic University of Science and Technology
- Member of Board of Studies, School of Technology, IUST
- Member of Society *for* Materials Chemistry (SMC) membership no. LM-769
- Member: IUPAC Affiliate Membership Program
- Member of International Society for Environmental Information Sciences

Future Plans (Brief outline of your future plans for teaching and research)

Teaching	I think in this technology driven society one should be well equipped to handle the electronic modes of teaching, develop the e-tutorial and video lectures and be made them available to students. I this regard I will dedicate some of the time in coming years to develop the e-content so that in case of any exigency I should be able to entertain my students.
Research	My focus of research is on development of Hydrogels for removal of toxic metal ions, dyes and polyaromatic hydrocarbons, but I think I will extend the application of theses Hydrogels for delivery of drugs to increase their bioavailability and efficacy. As delivery of colon specific drugs using Hydrogels is presentably having high number of publication I will specifically focus on that. I will also apply for research funding for my research from DST-SERB, UGC, DBT or CSIR.

Recommendations

1.Prof. & Dr. Imran Ali

Email id: drimran_ali@yahoo.com

PhD, Chemistry, FRSC, London (UK),

Department of Chemistry

Jamia Millia Islamia (Central University)

Jamia Nagar, New Delhi - 110025, India

Phone: +9211458226

<http://jmi.ac.in/iali2>

2 Professor Mohammad Shakir

E mail: shakir078@yahoo.com , mshakir.ch@amu.ac.in

Contact Address: Department of Chemistry,

AMU, Aligarh

Aligarh-202002 (India).