

BIO-DATA

1. Name and correspondence address:

Dr. Najmul Arfin (Assistant Professor)

#106, S. Ramanujan Block
Centre for Interdisciplinary Research in Basic Sciences
Jamia Millia Islamia,
New Delhi-110025



2. Email(s) and contact number:

narfin@jmi.ac.in

syednajmularfin@gmail.com

Mob: 8130792962

3. Institution: Jamia Millia Islamia, New Delhi

4. Date of Birth: 24th November 1983

5. Gender: Male

6. Category: General

7. Whether differently abled: No

8. Academic Qualification (Undergraduate onwards)

	Degree	Year	Subject	University	% marks
1.	B.Sc.	2006	Physics (Hons.)	University of Delhi	63
2.	M.Sc.	2008	Physics	Jawaharlal Nehru University	60.6
3.	PhD	2014	Soft Condense Matter	Jawaharlal Nehru University	

9. Ph.D thesis title, Guide's name, Institute/ Organization/ University, Year of award:

Thesis title: *Complexation in biopolymers: Arrested dynamics, structural changes and diffusion.*

Thesis Supervisor: *Prof. H. B. Bohidar*

University: *Jawaharlal Nehru University, New Delhi*

Year of award: *2014*

10. Work experience (in chronological order):

	Position held	Name of the Institute	From	To	Pay Scale
1.	Assistant Professor	Jamia Millia Islamia	26.10.15	till date	15600/- + 6000/- AGP
2.	Post Doctoral Fellow	Nanyang Technological University, Singapore	16.04.15	25.10.15	4600 S\$ per annum
3.	Assistant Professor	Central University of Rajasthan	15.09.14	30.03.15	15600/- + 6000/- AGP

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

	Name of Award	Awarding Agency	Year
1.	Junior Research Fellowship	CSIR	2009
2.	Senior Research Fellowship	CSIR	2011
3.	D.S. Kothari Fellow	UGC	2015

12. Projects

S. No.	Title	Cost (in lakhs)	Duration	Role as PI/ Co-PI	Agency	Remark
1.	Study of relaxation dynamics and phase transition in binary mixture of hard colloid and soft	10	2017 – 2019	PI	UGC	Completed

	colloid system and their possible biomedical application					
2.	Structure, size, and aggregation study of phytoglycogen based soft materials: A step in developing potential drug carrier	1.5	2023	PI	UGC – DAE – CSR	Ongoing

13. Publications (*List of papers published in SCI journal, in year wise descending order*)

	Author(s)	Title	Name of the journal	Volume	Page	Year
1.	Preeti Tiwari, Masood Nadeem, Sara Dua, M. MoshahidA. Riz, Najmul Arfin	Zein - laponite coacervate aided co-delivery of curcumin and cisplatin towards MDA-MB-231 breast cancer cells: Validating the concept	Food Hydrocolloids for Health	4	100164	2023
2.	Preeti Tiwari, Himadri B Bohidar, Avik Das, Jitendra Bahadur, Najmul Arfin	Anomalous Viscosity, Aggregation, and Non-Ergodic Phase of Laponite® RD in a Water–Methanol Binary Solvent	Clays and Clay Minerals	71	1-13	2023
3.	Andalib Firdaus, Preeti Tiwari, Najmul Arfin	Effect of glutraldehyde and halloysite on gelatin-carboxymethyl cellulose gel formed via phase separation: Potential application in removal of methylene blue from waste water.	Carbohydrate Polymer Technologies and Applications	4	100233	2022
4.	Preeti Tiwari, Rafat Ali, Romana Ishrat,	Study of interaction between	Journal of Molecular	1230	129637	2021

	Najmul Arfin	zein and curcumin using spectroscopic and in silico techniques	Structure			
5.	Preeti Tiwari, Rahul Ranjan, Kishan Das, Himadri Bohidar, V.K. Aswal, Najmul Arfin	Exfoliation and gelation in laponite-carboxymethyl cellulose complexes and its application in sustained drug release	Polymer Bulletin	77	5389	2020
6.	Preeti Tiwari, Indu Bharti, Himadri B Bohidar, Shabina Quadir, Mohan C Joshi, Najmul Arfin	Complex Coacervation and Overcharging during Interaction between Hydrophobic Zein and Hydrophilic Laponite in Aqueous Ethanol Solution	ACS Omega	5	33064-33074	2020
7.	Mehraj ud din Parray, Neha Maurya, Farooq Ahmad Wani, Mahendra S Borse, Najmul Arfin , Maqsood Ahmad Malik, Rajan Patel	Comparative effect of cationic gemini surfactant and its monomeric counterpart on the conformational stability of phospholipase A ₂	Journal of Molecular Structure	1175	49-55	2019
8.	B.K. Maity, V. Vishvakarma, D. Surendran, A. Rawat, A. Das, S. Pramanik, Najmul Arfin , S. Maiti	Spontaneous fluctuations can guide drug design strategies for structurally disordered proteins	Biochemistry	57	4206	2018
9.	M. uddin Parray, N. Maurya, F.A. Wani, M.S. Borse, Najmul Arfin , M.A. Malik, R. Patel	Comparative effect of cationic Gemini surfactant and its monomeric counterpart on the conformational stability of Phospholipase A ₂ .	Journal of molecular structure	49	1175	2018
10.	Hasan Abbas, Sajid Iqbal, Sharif Ahmed,	Synthesis and characterization of	Material Research	5	085312	2018

	Najmul Arfin	poly(methylmethacrylate)-silica composites	Express			
11.	Ali Ghadban, Anansa S. Ahmed, Yuan Ping, Riccardo Ramos, Najmul Arfin , Bram Cantaert, Raju V. Ramanujan, Ali Miserez.	Bioinspired pH and Magnetic Responsive Catechol-Functionalized Chitosan Hydrogels with Tunable Elastic Properties.	Chemical Communications	52	697	2016
12.	Najmul Arfin , V. K. Aswal, J. Kohlbrecher, H. B. Bohidar.	Relaxation dynamics and structural changes in DNA soft gels.	Polymer	65	175	2015
13.	Najmul Arfin , V. K. Aswal, H. B. Bohidar.	Overcharging, Thermal, Viscoelastic and Hydration properties of DNA-Gelatin complex coacervates Pharmaceutical and Food industries.	RSC Advances	4	11705	2014
14.	Najmul Arfin , H. B. Bohidar.	Ergodic-to-nonergodic phase inversion and reentrant ergodicity transition in DNA-nanoclay dispersions.	Soft Matter	10	149	2014
15.	Najmul Arfin , Avinash Chand Yadav, H. B. Bohidar.	Sub diffusion and Trapped Dynamics of Neutral and Charged Probes in DNA-Protein Coacervates.	AIP Advances	3	112108	2013
16.	Najmul Arfin , H. B. Bohidar.	Condensation, Complex Coacervation and Overcharging during DNA-Gelatin Interactions in Aqueous Solutions	Journal of Physical Chemistry B	116	13192	2012

17.	Najmul Arfin, H. B. Bohidar.	Concentration selective hydration and phase states of hydroxyethyl cellulose (HEC) in aqueous solutions.	International Journal of Biological Macromolecules	50	759	2012
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14. Book Chapters (*List of chapters published, in year wise descending order*)

	Author(s)	Title	Name of the journal	Page	Year
1.	Sara Dua, Hilal Ahmed, Najmul Arfin	Soft Nanomaterials and Their Applications	Nanomaterials: the building blocks of modern technology: synthesis, properties and applications	27-68	2023

15. No. of PhD students

Awarded: 1

Submitted: 1

Ongoing: 2