

Dr. UFANA RIAZ

1. Designation: Assistant Professor

2. Official Address

Department of Chemistry
Jamia Millia Islamia
New Delhi-110025
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3. Residential Address:

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4. Email (office): uriaz@jmi.ac.in

ufana2002@yahoo.co.in



5. Date of Birth: 13/04/1978

6. Date of Joining Jamia.: 25/11/2009

7. Field of Specialization:

- *Physical Chemistry*
- *Materials Chemistry*
- *Conducting Polymers/blends/nanohybrids*
- *Microwave-assisted synthesis of conducting polymers*
- *Biomedical applications of conducting polymers*

8. Teaching Experience: 14+ years (inclusive of previous university teaching)

9. Research Experience 15+ years (inclusive of previous university research experience)

10. Employment Profile

Job Title	Employer	From	To
Assistant Professor	Dept. of Chemistry and Biochemistry	2022	Till date
Assistant Professor	Dept. of Chemistry, Jamia Millia Islamia	2009	2022

Guest Lecturer	Dept. of Chemistry, Jamia Millia Islamia	2008	2009
Guest Lecturer	Dept. of Chemistry, Jamia Millia Islamia	2007	2008

11. Academic Qualifications

Examination	Board / University	Year	Division/ Grade
PhD (Materials Chemistry)	Jamia Millia Islamia	2007	-
MSc (Materials Chemistry)	Jamia Millia Islamia	2002	1
BSc.(H) Chemistry	Jamia Millia Islamia	2000	1
Senior Secondary	CBSE	1997	1
High School	CBSE	1995	1

12. Fellowships/Associateships

Duration	Fellowship/Associateship
July 2005 - Aug 2006	Senior research fellowship (SRF) under C.S.I.R project entitled “ <i>Development of anticorrosive conducting polymeric coating materials</i> ”
Sept 2006 - April 2007	Extended SRF under the same project
May 2007 - Dec 2007	Research Associateship (RA) under the same project
Jan 2008 – Oct 2008	Research Associateship (RA) under C.S.I.R-HRDG for project entitled “Development of Self- assembled nanostructured conducting polymers using benign techniques”

13. Awards

S.No	Year	Award
1.	2024	Standfords list of top 2% scientists
2.	2023	ESDA Education Excellence Award 2022” by the Jury Members of Green Award 2022 of Environment and Social Development Association (ESDA) Delhi
3.	2022	Outstanding Woman Researcher in Materials Chemistry, the 7th Annual Women's Meet – AWM 2022 held on 5 March 2022 at Green Park Chennai, India.
4.	2022	SIR CV RAMAN YOUNG SCIENTIST AWARD 2021, St Peters Institute of Higher Education and Research, Avadi Chennai.

5.	2021	International Research Excellence Award 2021 in Green Chemistry, Center for Professional Advancement Executive Council, Global Annual Education & Research Excellence Awards 2021 Committee, A unit of IMRF, Regd with Govt. Of India, NITI Ayog NGO Darpan., Govt of AP
6.	2021	National Education Excellence Award 2021 in Materials Chemistry.by World Sciences Day & National Education Day 2021 Celebrations at IMRF Institute of Higher Education & Research Campus, Vijayawada, India on November, 11th 2021, International Multidisciplinary Research Foundation, Leading Research Organization in India & Abroad, Institute of Higher Education and Research, Regd with Govt of India NITI Aayog NGO Darpan., Govt of AP., MHRD NISCAIR., ISSN Regd, ISBN Regd
7.	2021	Outstanding Performance Award" in "10th International Research and Academic Excellence Awards 2021 (10th IRAEA-2021)" by the in recognition of exceptional caliber and outstanding performance in Academic Excellence
8.	2021	NESA Green Technology Innovation Award by National Environmental Science Academy, India
9.	2021	Awarded Incredible Foundation of Innovative Research in association with Noval Research Foundation Researcher of India by Record Owner,25/09/2021
10.	2021	Awarded Best Young Researcher of India By Record Owner
11.	2021	Awarded Senior Scientist Award by Environment & Social Development Association for significant contribution to the field of Materials Chemistry and Environment
12.	2020	Best Research award by For the Contribution and Honourable Achievement in Innovative Research by Science Father under International Research Awards on New Science Inventions NESIN 2020 Awards

14. Memberships/Lifetime memberships

S.No	Membership	Details of membership
1.	Scientific advisor	Neosinus Health Inc. 1 Glenwood Avenue, 5th Floor Raleigh, NC 27603 (2021)
2.	ESDA	Life time membership of Environment & Social Development Association(ESDA) (2021) (ID:2231)
3.	NESA	Life time membership of National Environmental Science academy (NESA) (2021) (ID:2279)

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4.	OWSD	Member of Organization for Women and Science for the Developing world OWSD (2017) (ID:5971) https://owsd.net/member/riaz-ufana
5.	RSC	Member of Royal Society of Chemistry (2017) Membership ID 674020
6.	IUPAC	Affiliate Member of International Union of Pure and Applied chemistry (2016)
7.	NASI	Elected as life member of National Academy of Science, Allahabad India (2016)
8.	AIChE	AIChE is the world's leading organization for chemical engineering professionals, with more than 60,000 members from more than 110 countries. AIChE has the breadth of resources and expertise you need whether you are in core process industries or emerging areas, such as translational medicine.

15. Details of Academic Work

Course/Paper Level Taught	Level	Mode of teaching*	Title of paper
Jamia Millia Islamia			
M.Sc. Materials Chemistry	PG	Lecture + lab	Elements of Materials Chemistry Defects deformation and deterioration of materials Basic concepts of Crystallography & Crystal Structures Processing and characterization of crystal structures
B.Sc.(Subsi) (Phy,Math and Geography)	UG	Lecture + lab	Organic Chemistry (main) Physical chemistry (main) Ability enhancement (elective)
PhD course work	PhD	(Theory)	Research Methodology and Ethics in publishing

15.1 Details of PhDs supervised (Jamia Millia Islamia)

S.No	Name of student	Topic of project	Year
1.	Ruby Khan	<i>Synthesis, Characterization and Applications of Highly Crystalline MOCVD Developed GaN based Organic-inorganic Hybrids</i>	2022
2.	Jannatun Zia	<i>“Synthesis, Characterization and Photocatalytic Studies of Metal oxide Conjugated polymer Nanohybrids”</i>	2022
3.	Neetika Singh	<i>Synthesis, Characterization and Applicational Studies of Singlet Oxygen generating Conjugated Polymers</i>	2022
4.	Sapana Jadoun	<i>“Synthesis characterization and fluorescence studies of amine based conducting polymers and copolymers</i>	2019
5.	Anurakshi Verma	<i>Synthesis and Characterization of conducting polymer intercalated clay nanocomposites”</i>	2018
6.	Jyoti Kashyap	<i>Synthesis, Characterization and sonophotocatalytic properties of Conjugated Polymers nanocomposites with semiconductors</i>	2018
7.	Shaista	<i>Photocatalytic properties of metal oxide hybrids</i>	Under supervision
8.	Aaliza Farroq	<i>Photocatalytic properties of conducting polymers</i>	Under supervision
9.	Nuzhat Mir	<i>Synthesis, Characterization and application studies of Conducting polymers</i>	Under supervision
10.	Aleena Mir	<i>Synthesis, Characterization and application studies of Conducting polymer gels</i>	Under supervision

(i) Masters Dissertations (Jamia Millia Islamia)

S.No	Name of student	Topic of project	Year
11.	Nisha Khan	Microwave Assisted Solid State Polymerization of Carbazole in Bentonite Clay Galleries for Controlled Self-assembled Nanostructured Morphology	2009-2010
12.	Mohd.Zeeshan	Microwave-Assisted Solid State Intercalation of Polycarbazole in Rhodamine-B modified Bentonite Clay Galleries	2010-2011
13.	Ashima Madaan	Microwave-Assisted Solid State Intercalation of Polycarbazole in Bentonite Clay Galleries	2010-2011
14.	Sanjay Kumar	Fluorescence Studies of Microwave-Assisted Solid-State Intercalation And Polymerization of Carbazole in Rhodamine-B Modified Bentonite Clay Galleries	2011-2012
15.	Sanjeev Kumar	Microwave-Assisted Solid State Intercalation And Polymerization of Carbazole in Bentonite Clay Galleries Using Hydrogen Peroxide as Initiator	2011-2012
16.	Imran Ahmad	Effect of Benzoyl Peroxide on Microwave-Assisted Solid-State Intercalation and Polymerization of Carbazole in Bentonite Clay Galleries	2011-2012
17.	Mohd.Aqib	Microwave-assisted Degradation of Acid Orange in Aqueous Solution Using Polyaniline as Catalyst	2012-2013
18.	Munazah Farooq	Microwave-assisted degradation of Methyl Orange using poly(1-naphthylamine) as catalyst	2012-2013
19.	Sadaf Aleem	Synthesis & Characterization of poly(1-naphthylamine)/ZnO nanocomposites for catalytic degradation of textile dyes	2013-2014
20.	Vaibhav Buddhiraja	Synthesis and Characterization of ultrasonically synthesized nanostructured conducting polymers and copolymers	2013-2014
21.	Kanika Kohli	Synthesis & Characterization of poly(o-phenylenediamine)/CoFe ₂ O ₄ nanocomposites	2014-2015
22.	Talat Fatima	Effect of dye doping on the spectral, morphological and fluorescence characteristics of some conducting polymers	2014-2015
23.	Arshi Iqbal	Synthesis and Characterization of Spinel Ferrite dispersed Castor Oil Polyurethane Nanocomposites	2015-2016
24.	Liza Biswal	Effect of copolymerisation on spectral and morphological properties of conducting polymers	2016-2017
25.	Surishi Vashisht	Synthesis and Characterization of Polypyrrole Intercalated Layered Double Hydroxide Nanocomposites	2016-2017
26.	Mohd. Wazid	Inkjet Printable Formulations of Some Conducting Polymers	2016-2017
27.	Mohd. Akram	Synthesis of conjugated polymers	2017-2018
28.	Mohd Ajeer	Synthesis of K-Birnessite /polypyrrole nanohybrids	2017-2018
29.	Saurabh Sharma	Synthesis of Dye incorporated conducting polymers	2018-2019

30.	Pooja Sharma	Viscosity studies of conducting polymers	2018-2019
31.	Mohammad Rashad P	Synthesis of SnO ₂ / polyaniline nanohybrids	2018-2019
32.	Syed Misbah	Synthesis of Metal oxide/conducting polymer nanohybrids for water remediation	2019-2020
33.	Mohd Riyazuddin	Synthesis of metal/oxide conducting polymer nanocomposites for water remediation	2019-2020
34.	Sumit Singh	Synthesis of benzoquinone modified polymers	2019-2020
35.	Fatimath Rashnas	Synthesis of conducting polymer hydrogels	2019-2020
36.	Fizzah Fatima	A Review on Conducting polymer photocatalysts	2020-2021
37.	Saima	A Review on Theoretical studies of Conducting polymers	2020-2021
38.	Sumbul Fatima	A Review on Conducting polymer hydrogels	2020-2021
39.	Akshay Prem	Design of Amino Acid based Conducting Polymers	2021-2022
40.	Mohamed Suhail	Synthesis of Conducting Polymeric Hydrogels	2021-2022
41.	Mohd Afzal	Photocatalytic Properties of Conducting Polymers	2021-2022

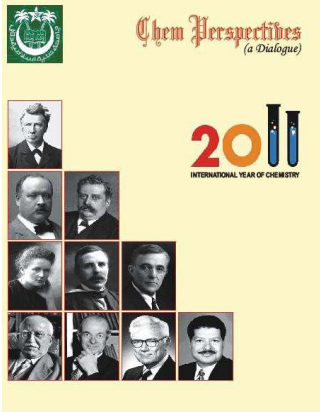
14. Details of Research Projects

S.No	Title of Project	Funding Agency	Cost (Rs)	Duration		Status
				From	To	
1.	“Development of self assembled nanostructured poly(N-vinyl carbazole and poly(o- toluidine) intercalated silicate (bentonite) nanocomposites using benign techniques”	DST-SERC Fast Track	18, 82, 000/-	2009	2012	Completed
2.	Microwave-assisted rapid catalytic degradation of some textile dyes using	UGC-Major Research Project	10,89,300/-	2012	2014	Completed
3.	Enhancement of Fluorescence Properties of Conjugated Polymer Nanoparticles Using Luminol and its Derivatives for their Application in Near Infrared (NIR) Imaging	DST-SERB	39,37,800/-	2014	2018	Completed

4.	Development of Graphitic Carbon Nitride (g-C ₃ N ₄) and its doped Nanostructured Analogous for Clean and Green Energy Applications Emphasizing on Hydrogen Generation (Co-PI)	SPARC	1,68,54,322	2019	2021	Completed
5.	Development of Conducting Polymer Intercalated Montmorillonite Nanocomposites for their Application as Anti-tuberculosis Drug Delivery Agents	Deanship of Scientific research, Ministry of Education ,King Abdul Aziz University, Jeddah Saudia Arabia	8000 SR	2019	2020	Completed
6.	Enhancement of Fluorescence Properties of Conjugated Polymer Nanoparticles for their Application in Near Infrared (NIR) Imaging	Deanship of Scientific research, Ministry of Education ,King Abdul Aziz University, Jeddah Saudia Arabia	8000 SR	2019	2020	Completed
7.	Catalytic Degradation of Organic Pollutants Using Organic Inorganic hybrids D-074-247-1441	Deanship of Scientific research, Ministry of Education ,King Abdul	8000 SR	2019	2021	Completed

		Aziz University, Jeddah Saudia Arabia				
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15. Workshops/Conferences/Seminars (Jamia Millia Islamia)

S.No	Title of Workshops/ Conferences/ Seminars	Date	Funding Agency	Launched a student's magazine on this occasion
1.	Co-convenor of Indo-US Webinar and Lecture Series On Advance Functional Materials	June 1-9, 2021	MHRD-SPARC scheme	-
2.	Co-convenor, National Conference on Advanced Functional Materials-2019 (NCAFM 2019), Jamia Millia Islamia, New Delhi,	November 20-21, 2019	MHRD-SPARC scheme	-
3.	Co-convenor, One day Seminar on Chemistry in Our Lives Issues and Challenges” on the occasion of celebration of International year of Chemistry, 2011 as Co-convenor	March 28 2011	UGC-SAP	

16. Training/Orientation/Refresher Programmes

S.No	Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
1.	Spectroscopic Techniques for Materials Characterization	Online mode MNIT, Jaipur	January 04 - 08, 2021	Materials Research Centre, MNIT Jaipur
2.	First Online Faculty Development Program	Jamia Millia Islamia, New Delhi	April 6-7, 2020	Organized by FTK-CIT, Zakir Husain Library & UGC, HRD Centre, JMI, Jamia Millia Islamia, New Delhi
3.	ICT Tools for Effective Teaching and Learning	Online mode Kamla Nehru Mahavidyalaya, Nagpur	8th to 10th June 2021	Organized by IQAC, Kamla Nehru Mahavidyalaya, Nagpur
4.	Recent Developments in Nano Materials for Energy and Health Care Applications, a short-term program under GIAN scheme sponsored by MHRD, Govt. of India	Jamia Millia Islamia, New Delhi	December 19-24 2016	Organized by Department of Chemistry, Jamia Millia Islamia, New Delhi
5.	3-week Refresher course in Chemistry (RC-260 Chemistry)	HPU, Shimla	19 th Nov- 8 th Dec 2012	Organized by UGC-ASC, HPU Shimla
6.	4 th RC Basic Sciences (interdisciplinary)	Jamia Millia Islamia, New Delhi	12 th May 2014 - 2 nd June 2014	Organized by UGC-ASC, Jamia Millia Islamia, New Delhi

17. Journal Publications

S.No	Author	Title	Name of journal	Vol	Page	Year
1.	S Myrick, F Nwanze, AF Adcock, X Dong, L Yang, U Riaz Internation	Graphene oxide-modified polythiophene nanohybrids: antibacterial properties and sonophotocatalytic degradation of dyes under visible-light irradiation	Journal of Polymeric Materials and Polymeric Biomaterials	73		2024
2.	J Kallon, JJ Bang, U Riaz, DK Taylor	Design of Thermo-Responsive Pervaporation Membrane Based on Hyperbranched Polyglycerols and Elastin-like Protein Conjugates	Nanomaterials	14 (22),	1821	2024
3.	S Gaffar, ES Aazam, U Riaz	Photocatalytic degradation of cetirizine hydrochloride using polypyrrole decorated zinc ferrite nanohybrids under visible light irradiation	Environmental Science and Pollution Research,	1-15		2024
4.	A Farooq, SK Jain, ES Aazam, U Riaz	Visible Light-Induced Photocatalytic Degradation of 2, 4, 6-Trichlorophenol Using Polyfuran/Polypyrrole Organic Photocatalysts	Polymers for Advanced Technologies	35 (10),	e6593	2024
5.	J Alam, FAA Ali, AK Shukla, S Haider, U Riaz, M Alhoshan	Crosslinked Chitosan-Sulfonated Polyphenylsulfone Electrospun Nanofibers: A Highly Water-Stable and Versatile Adsorbent for Organic Dye Removal	Fibers and Polymers	25 (9),	3307 - 3321	2024
6.	S Gaffar, U Riaz	Photocatalytic performance of copper ferrite/polypyrrole nanohybrids: studies on visible light induced degradation of urea and microwave-assisted degradation of polyethylene films	Macromolecular Research	, 1-11		2024

7.	K Hauser, SO Hassou, U Riaz	Ultrasound-Assisted Photocatalytic Degradation of Azo Dyes under Visible Light Irradiation Using Polythiophene-Decorated CoFe ₂ O ₄ Nanohybrids	Catalysts	14 (8),	495	2024
8.	T Douglas, N Singh, U Riaz	Experimental and Theoretical Studies on Indigo-Dye-Modified Conjugated Polymers	Molecules	29 (13),	3200	2024
9.	J Zia, M Rafi, ES Aazam, U Riaz	Microwave—assisted catalytic degradation efficiency of non-steroidal anti-inflammatory drug (NSAIDs) using magnetically separable magnesium ferrite (MgFe ₂ O ₄) nanoparticles	Clean Technologies and Environmental Policy	1-14		2024
10.	A Mir, WJ Fletcher, DK Taylor, J Alam, U Riaz	Sustained Release Studies of Metformin Hydrochloride Drug Using Conducting Polymer/Gelatin-Based Composite Hydrogels	ACS omega	9 (17),	1876 6- 1877 6	2024
11.	TR Seling, AK Shringi, K Wang, U Riaz, F Yan	Bi ₂ O ₂ S nanosheets for effective visible light photocatalysis of anionic dye degradation	Materials Letters	361,	1361 36	2024
12.	TR Seling, RR Katzbaer, KL Thompson, SE Aksoy, B Chitara, AK Shringi	Transition metal-doped CuO nanosheets for enhanced visible-light photocatalysis	Journal of Photochemistry and Photobiology A:	Chemistry	448, 1153 56	2024
13.	A Mir, ES Aazam, U Riaz	Design of Phytic Acid Crosslinked Xerogels as Organic Photocatalysts for Visible Light-Assisted Degradation of Dyes	Advanced Materials Interfaces	24000 46	-	2024

14.	SA Wagay, U Riaz, M Alam, R Ali	Evaluation of naked-eye sensing and anion binding studies in meso-fluorescein substituted one-walled calix [4] pyrrole (C4P)	RSC advances	14 (11),	7786 - 7796	2024
15.	A Farooq, N Nabi, J Alam, U Riaz	Synthesis and characterization of polyfuran/polythiophene oligomers: Oligomer–protein interaction studies	Polymers for Advanced Technologies	35 (1),	e6219	2024
16.	U Riaz, A Farooq, J Alam	Microwave-assisted rapid degradation of Methyl red dye using Polyfuran/Polythiophene and its Co-oligomers as catalysts	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	302,	123106	2023
17.	IA Rather, U Riaz, R Ali	Experimental and computational anion binding studies of meso-substituted one-walled phthalimide- based Calix [4] pyrrole	Journal of Molecular Structure	1280,	135065	2023
18.	Ufana Riaz, Aaliyah Farooq, Javed Alam	Microwave-assisted rapid degradation of Methyl red dye using Polyfuran/Polythiophene and its Co-oligomers as catalysts	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	302	123106	2023
19.	Aleena Mir, Amit Kumar, Javed Alam, Ufana Riaz	Synthesis and characterization of pH-responsive conducting polymer/Na-alginate/gelatin based composite hydrogels for sustained release of amoxicillin drug	International Journal of Biological Macromolecules		126015	2023
20.	Ishfaq Ahmad Rather, Manawwer Alam, Ufana Riaz, Rashid Ali	Novel Synthesis and Evaluation of Anion- π Interactions in One-Walled meso-Cyanophenyl substituted Calix [4] pyrrole (C4P): Experimental and Computational Insights	Journal of Molecular Structure		135949	2023

21.	U Riaz , S Gaffar, K Hauser, F Yan	Visible-light induced degradation of diphenyl urea and polyethylene using polythiophene decorated CuFe ₂ O ₄ nanohybrids	Scientific Reports	13 (1)	4975	2023
22.	U Riaz , N Singh, F Rashnas Srambikal, S Fatima	A review on synthesis and applications of polyaniline and polypyrrole hydrogels	Polymer Bulletin	80 (2)	1085 - 1116	2023
23.	A Mir, A Kumar, U Riaz	Synthesis and Characterization of Conducting Polymer/Alginate Composite Hydrogels: Effect of Conducting Polymer Loading on the Release Behaviour of Metformin Drug	Journal of Molecular Liquids,	-	1211 9 3	2023
24.	J Zia, M Riyazuddin, S Jackson, DK Taylor, U Riaz	In-vitro release studies of ciprofloxacin drug using polyaniline/polypyrrole - encapsulated β-cyclodextrin nanocomposites	Polymer Bulletin,	1-20		2023
25.	U Riaz , A Farooq, N Nabi, FR Nwanze, F Yan	Synthesis, characterization, and biophysical interaction studies of water-dispersible polypyrrole/polythiophene co-oligomers with bovine serum albumin and human serum albumin ...	New Journal of Chemistry	-	-	2023
26.	U Riaz , N Nabi, FR Nwanze, F Yan	Experimental and biophysical interaction studies of alanine modified polyaniline with bovine serum albumin and human serum albumin: Influence of alanine modification on the ...	Synthetic Metals,	292	1172 4 8	2023

27.	N Singh, U Riaz	Recent trends on synthetic approaches and application studies of conducting polymers and copolymers: a review	Polymer Bulletin,	1-32	2022
28.	J Saraswat, U Riaz , R Patel	In-silico study for the screening and preparation of ionic liquid-AVDs conjugate to combat COVID-19 surge	Journal of Molecular Liquids	359, 7-7	2022
29.	N Singh, A Kumar, U Riaz	Conducting Polymer-Based Micro-and Nano-batteries for Biomedical Applications: A Short Review	Chemistry Select	(27), 7	e202201302
30.	U Riaz , N Nabi, A Kumar, DK Taylor	Recent advances in the utilization of polyaniline in protein detection: a short review	RSC advances	12 (51),	3288-3289
31.	A Mir, A Kumar, U Riaz	A short review on the synthesis and advance applications of polyaniline hydrogels	RSC advances	12 (30),	1912-1913
Jamia Millia Islamia					
32.	A Verma, R Parveen, TN Shamsi, AA Khan, S Fatima, ES Aazam, U Riaz	Ed. A Novel Strategy to Arrest Bacterial Pathogen Infestation Using Poly (o-Phenylenediamine)/Montmorillonite Nanocomposites	Chemistry Select	7 (26),	e202200797
33.	S Jadoun, J Yáñez, HD Mansilla, U Riaz , NPS Chauhan	Conducting polymers/zinc oxide-based photocatalysts for environmental remediation: a review	Environmental Chemistry Letters,	-	1-21
34.	U Riaz , N Singh, F Rashnas Srambikal, S Fatima	A review on synthesis and applications of polyaniline and polypyrrole hydrogels	Polymer Bulletin,	-	1-32
35.	U Riaz	Theoretical studies of conducting polymers: a mini review	New Journal of Chemistry	-	-

36.	S Jadoun, SM Ashraf, U Riaz	Insights into the spectral, thermal and morphological effects of co-oligomerization of pyrrole with luminol: A comparative experimental and computational study	Materials Science and Engineering: B	273,	11539	2021	6
37.	N Singh, ES Aazam, Ufana Riaz	Experimental and Computational Studies of Azo Dye-Modified Luminol Oligomers: Potential Application in Lithium Ion Sensing	ACS Omega	-	-	2021	
38.	S Jadoun, DS Rathore, Ufana Riaz , NPS Chauhan	Tailoring of conducting polymers via copolymerization-a review	European Polymer Journal	-	11056	2021	1
39.	R Khan, AK Visvkarma, K Narang, RK Bag, MVG Padmavati, R Tyagi, U.Riaz	Comparative study of polymer based novel organic-inorganic hetero-junctions with n-GaN and AlGaN/GaN epi-structures	Materials Science and Engineering: B	272,	11536	2021	4
40.	J Zia, U Riaz	Photocatalytic Degradation of Water Pollutants using Conducting Polymer-based Nanohybrids: A Review on Recent Trends and Future Prospects	Journal of Molecular Liquids,	-	11716	2021	2
41.	S Jadoun, U Riaz , J Yáñez, NPS Chauhan	Synthesis, Characterization and Potential Applications of Poly (o-phenylenediamine) based Copolymers and Nanocomposites: A Comprehensive Review	European Polymer Journal,	-	11060	2021	0
42.	N Singh, ES Aazam, Ufana Riaz	Synthesis and characterization of lawsone incorporated singlet oxygen generating conjugated polymers: Experimental and computational studies	Journal of Molecular Structure	1240,	13053	2021	3

43. J Zia, **Ufana Riaz**, ES Aazam Synthesis and characterization of chitosan-supported Fe₂ O₃ nanohybrids for rapid sonophotocatalytic degradation of 2, 4, 6-trichlorophenol Environmental Science and Pollution Research, - 1-9 2021
44. N Singh, ES Aazam, **Ufana Riaz** Ultrasound-assisted polymerization of benzoquinone (BQ) with triphenylamine (TPA): comparison of computational and experimental studies Polymer Bulletin 78 (5), 2829-2840 2021
45. N Singh, R Ali, SM Ashraf, A Rub, **Ufana Riaz** Experimental and computational studies of novel Sudan-I dye modified conjugated oligomers: Efficient ¹O₂ generation and antileishmanial characteristics Materials Science and Engineering: B 265, 11499-3 2021
46. J Zia, SM Farhat, ES Aazam, **Ufana Riaz** Highly efficient degradation of metronidazole drug using CaFe₂O₄/PNA nanohybrids as metal-organic catalysts under microwave irradiation Environmental Science and Pollution Research 28 (4), 4125-4135 2021
47. S Jadoun, **Ufana Riaz**, V Budhiraja Biodegradable conducting polymeric materials for biomedical applications: a review Medical Devices & Sensors 4 (1), e1014-1 2021
48. R Khan, K Narang, MVG Padmavati, R Tyagi, RK Bag, **Ufana Riaz** Investigation and optimization of AlN nucleation layers grown on 4H-SiC by MOCVD Materials Today: Proceedings 36, 637-641 2021
49. R Khan, K Narang, A Arora, R Tyagi, MVG Padmavati, RK Bag, **Ufana Riaz** Improvement in the crystalline quality of GaN and defects analysis using cathodoluminescence Materials Today: Proceedings 36, 631-636 2021
50. J Zia, **Ufana Riaz** Studies on the spectral, morphological and magnetic properties of PCz-PPy copolymer encapsulated BaFe₂O₄ nanohybrids Journal of Materials Science: Materials in Electronics 31 (24), 22856-22865 2020
51. J Zia, M Riyazuddin, ES Aazam, **Ufana Riaz** Rapid catalytic degradation of amoxicillin drug using ZnFe₂O₄/PCz nanohybrids under microwave irradiation Materials Science and Engineering: B 261, 11471-3 2020

52. **Ufana Riaz, N Singh, P Kumar** Ultrasound-assisted synthesis of fluorescent oligomers of triphenylamine modified polyquinones: a comparison of experimental and computational spectral studies Journal of Molecular Structure 1217, 12837-12844 2020
53. **Ufana Riaz, N Singh, A Verma, ES Aazam** Studies on conducting polymer intercalated layered double hydroxide nanocomposites: Antituberculosis drug delivery agents Polymer Engineering & Science 60 (10), 2628-2639 2020
54. N Singh, S Singh, SM Ashraf, **Ufana Riaz** Experimental and theoretical studies of benzoquinone modified poly (ortho-phenylenediamine): singlet oxygen generating oligomers Colloid and Polymer Science 298 (10), 1443-1453 2020
55. R Khan, A Arora, A Jain, BS Yadav, J Lohani, A Goyal, K Narang, **Ufana Riaz** Impact of growth conditions on intrinsic carbon doping in GaN layers and its effect on blue and yellow luminescence Journal of Materials Science: Materials in Electronics 31 (17), 14336-14344 2020
56. J Zia, ES Aazam, **Ufana Riaz** Facile synthesis of MnO₂ nanorods and ZnMn₂O₄ nanohexagons: a comparison of microwave-assisted catalytic activity against 4-nitrophenol degradation Journal of Materials Research and Technology 9 (5), 9709-9719 2020
57. J Zia, **Ufana Riaz** Microwave-Assisted Degradation of Paracetamol Drug Using Polythiophene-Sensitized Ag-Ag₂O Heterogeneous Photocatalyst Derived from Plant Extract ACS omega 5 (27), 16386-16394 2020
58. J Zia, ES Aazam, **Ufana Riaz** Synthesis of nanohybrids of polycarbazole with α -MnO₂ derived from Brassica oleracea: A comparison of photocatalytic degradation of an antibiotic drug under microwave and UV ... Environmental Science and Pollution Research 27 (19), 24173-24189 2020

59.	J Zia, ES Aazam, Ufana Riaz	Highly efficient visible light driven photocatalytic activity of MnO ₂ and Polythiophene/MnO ₂ nanohybrids against mixed organic pollutants	Journal of Molecular Structure	127	790	2020
60.	Ufana Riaz , J Zia	Microwave-assisted rapid degradation of DDT using nanohybrids of PANI with SnO ₂ derived from Psidium Guajava extract	Environmental Pollution,	113	917	2020
61.	N Singh, M Arish, P Kumar, A Rub, Ufana Riaz	Experimental and Theoretical Studies of Novel Azo Benzene Functionalized Conjugated Polymers: In-vitro Antileishmanial Activity and Bioimaging	Scientific Reports	10 (1),	1-14	2020
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6.	Conjugated polymer light-emitting diodes in Polymers for Light-Emitting Devices and Displays	Sapana Jadoun, Ufana Riaz	John Wiley & Sons, Inc.	ISBN 9781119654605 2020

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8.	Ufana Riaz and Anurakshee Verma, : Polymers in Drug Delivery: Trends and Future Prospects, <i>Encyclopedia of Polymer Applications (EPA)</i> edited by Munmaya Mishra	Ufana Riaz and Anurakshee Verma	CRC Press	ISBN 9781498729932, 2019
9.	Utilization of Chitosan and its Nanocomposites as Adsorbents for Efficient Removal of Dyes, Chapter-10, Chitosan-Based Adsorbents for Wastewater Treatment, Ed. Abu Nasar	Ufana Riaz, Jyoti Kashyap	Materials Research Forum LLC, Materials Research Foundations 34 (2018) 227-254.	ISBN 9781945291753 2018
10.	Recent Advances in Nano Photodynamic Therapy, <i>Recent Advances in Analytical Techniques,</i>	Ufana Riaz, Syed Marghoob Ashraf and Juraj Bujdak:	Bentham publishers	2017, <i>Vol. 1,</i> 1-24,2017.
11.	Photochemical Behavior and Optoelectronic Applications of Some Conjugated Polymers, Photochemical Behavior of Multicomponent	Ufana Riaz and SM Ashraf	Bentham publishers	

	Polymeric-based Materials pp 347-377,2016			
12.	<i>Chapter: Fluorescence Bioimaging with Applications to Chemistry in Computational Optical Biomedical Spectroscopy and Imaging</i> Edited by Sarhan Musa, pages 27-71	Ufana Riaz and Syed Marghoob Ashraf:	CRC Press	2015 ISBN: 9781482230819
13.	<i>Chapter: Characterization of Polymer Blends with FTIR Spectroscopy. Characterization of Polymer Blends: Miscibility, Morphology and Interfaces,</i> Edited by Thomas, Y. Grohens and. Jyotishkumar	Ufana Riaz and Syed Marghoob Ashraf:	Wiley	2014 ISBN: 978-3-527-33153-6
14.	<i>Chapter : Conductive Polymer Composites and Blends in Recent Trends in Nanostructured Polymer Blends,</i> edited by William Andrew, pages 509–538	Ufana Riaz and S.M.Ashraf	Elsevier	2014 ISBN 9781455731596
15.	<i>Chapter : Corrosion Protective Coatings Based on Electroactive Polymers in Corrosion and Materials in the Oil and Gas Industries.</i> edited by Reza Javaherdashti, Chikezie Nwaoha, and Henry Tan, pages	Ufana Riaz and Syed Marghoob Ashraf:	CRC press	2013 ISBN: 9781466556249

	395– 414			
16.	<i>Chapter: Role of Computational Intelligence in Photonics Technology.</i> Computational Nanophotonics: Modeling and Applications, edited by Sarhan M. Musa	Ufana Riaz and Syed Marghoob Ashraf	CRC Press	2013 ISBN: 9781466558762
17.	<i>Chapter: Nanoscale Spectroscopy with Applications to Chemistry.</i> Nanoscale Spectroscopy with Applications, Edited by Sarhan M. Musa, pages 131-178	Ufana Riaz and Syed Marghoob Ashraf	CRC Press	2013 ISBN: 9781466568549
18.	<i>Chapter: Computational Finite Element Methods in Nanotechnology in Computational Finite Element Methods in Nanotechnology,</i> Edited by Sarhan M. Musa, pages 241-290	Ufana Riaz and Syed Marghoob Ashraf:	CRC Press	2012 ISBN 9781439893234
19.	<i>Chapter: Morphology of Natural Resource Based Polymer Blends in Polymer Morphology,</i> Edited by Hongshun Yang, pages 227-277	Ufana Riaz and SM Ashraf	Nova Publishers	2012 ISBN: 978-1-61470-880-3

20.	<i>Chapter: Computational modeling of nanoparticles in Computational nanotechnology modeling and applications with Matlab, Edited by Sarhan M. Musa, pages 29-74</i>	Ufana Riaz and Syed Marghoob Ashraf	CRC press	2011 ISBN: 1439841764
21.	<i>Chapter: Lignin: Properties and Applications in Lignin: Properties and Applications in Biotechnology and Bioenergy, pages 69-138</i>	Ufana Riaz and Syed Marghoob Ashraf	Nova Publishers	2011 ISBN: 978-1-61122-907-3
22.	<i>Chapter: Specialty Coatings and Adhesives in Specialty Polymers: Materials and Applications, Edited by Faiz Mohammad</i>	Ufana Riaz, and Sharif Ahmad	IK International	2007 ISBN: 8188237655

19. Books

S. No	Title	Authors Name	Publisher	Year of publication
1.	<i>A Laboratory Manual of Metals and Alloys</i>	S.M.Ashraf, Sharif Ahmad, Ufana Riaz	IK International	2010
2.	<i>A Laboratory Manual of Polymers</i>	S.M.Ashraf, Sharif Ahmad, Ufana Riaz	IK International	2010
3.	<i>Nanostructured Conducting Polymers and Their Nanocomposites: Classification, Properties, Fabrication and Applications</i>	Ufana Riaz and S.M.Ashraf	Nova Publishers	2010

20. Conferences/Workshops/Symposia:

S. No.	Author(s)	Title of Paper	Conference Theme	Year
1.	Ufana Riaz	<i>Microwave-Assisted degradation of Paracetamol Drug using Polythiophene/Ag–Ag₂O heterogeneous Photocatalyst derived from Natural Resource</i>	World congress on Chemistry and Chemical technologies held on Feb 09,2022 at London UK	2022
2.	Ufana Riaz	<i>Nanohybrids of Polycarbazole with α-MnO₂ Nanorods using natural extract of Brassica Oleracea (Cabbage): Photocatalytic Activity under Microwave and UV irradiations</i>	Online Summit on Polymer Chemistry (PC-2021) international Conference technically sponsored & Hosted by STEM International Organization (One of the eminent institutions of STEM Education in Singapore).	2021
3.	Sapana Jadoun and Ufana Riaz	<i>Functionalized Conducting Polymers and Copolymers: A Recent Approach for Organic Electronics and Biomedical Application</i>	Young Scientist Conference” held at India International Science Festival, Biswa Bangla Convention Centre, Kolkata	2019
4.	Jannatun Zia and Dr. Ufana Riaz	<i>Facile synthesis of MnO₂ nanoparticles and spinel ZnMn₂O₄ nanostructure, their activity against the reactive oxygen species generation (ROS).</i>	NCAFM-2019 (National conference on Advanced functional materials), held at Department of Chemistry, Jamia Millia Islamia, New Delhi	20-21 th Nov 2019
5.	Jannatun Zia and Dr. Ufana Riaz	<i>Microwave assisted degradation of bactrim DS using green synthesized α- MnO₂ nanorods via natural extract of brassica oleracea (cabbage) and its nanocomposites with polycarbazole (α-MnO₂/ PCz)</i>	Biophysika 2019 (one day symposium on Biophysics), held at Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi-110025	5th Oct 2019

6.	Jannatun Zia and Dr. Ufana Riaz	<i>Photocatalytic degradation of bisphenol a by using polypyrrole/K-Birnessite nanohybrids</i>	ICAM-019 (International Conference on Advanced Materials) held at Centre for Nanoscience and technology, Jamia Millia Islamia, New Delhi	6-8 th March 2019
7.	Jannatun Zia and Dr. Ufana Riaz	<i>Green Sonophotocatalytic Degrading of Antibiotics under visible light irradiation using Polypyrrole Encapsulated V₂O₅ Nanohybrids. (Poster)</i>	Biophysika 2018 (one day symposium on Biophysics), held at Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi-110025	20 th Nov 2018
8.	Sapana Jadoun and Ufana Riaz	<i>Interaction Studies of Cobalt Ferrite Nanocomposites with Bovine Serum Albumin</i>	National Seminar on Biophysics" (Biophysika-2017)" at Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi	2017
9.	Anurakshi Verma and Ufana Riaz	<i>Double Layered Hydroxides as Potential Anti-Cancer Drug Delivery"</i>	National Seminar on Biophysics held at Jamia Millia Islamia, New Delhi-110025, March 16	2017
10.	Sapana Jadoun and Ufana Riaz	<i>Spectral, Morphological and Fluorescent Characteristics of Aminophthalic Hydrazide doped Poly(1-aminonaphthalene)</i>	RSC Workshop On "Recent Advances in Chemistry and Biology" on jointly organized by Shiv Nadar University, RSC-North India Section and Green Chemistry Network Centre (University of Delhi), held at Shiv Nadar University, Uttar Pradesh	2016

			on 15th December 2016.	
11.	Sapana Jadoun and Ufana Riaz	<i>International Conference On “Advances in Nanomaterials and Nanotechnology (ICANN-2016)” at Centre of Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi held on 4th-5th November 2016.</i>	International Conference On “Advances in Nanomaterials and Nanotechnology (ICANN-2016)” at Centre of Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi held on 4th-5th November 2016.	2016
12.	Anurakshi Verma and Ufana Riaz	<i>Mechanochemical synthesis of poly (o-toluidine) within the gallery of montmorillonite nanocomposites</i>	International conference on Advances in Nanomaterials and Nanotechnology” held at Jamia Millia Islamia, New Delhi-110025, November 4-5	2016
13.	Anurakshi Verma and Ufana Riaz	<i>Anti-bacterial activity of poly(o-phenylenediamine) intercalatedMMTnanocomposites</i>	Recent Advances in Chemistry and Biology” at Shiv Nadar University, U.P. December 15	2016
14.	Jyoti Kashyap and Ufana Riaz	<i>Synthesis of Conducting polymer Nanocomposites for their application in photocatalysis</i>	Recent Advances in Chemistry, held at Department of Chemistry Jamia Millia Islamia ,April 26	2016
15.	Jyoti Kashyap and Ufana Riaz	<i>Microwave-assisted degradation of Alizarin Red using conducting polymer nanohybrid.</i>	UGC Sponsored, National Seminar on Metal Toxicity and Oxidative Stress, , Jamia Millia Islamia, New Delhi. On September 23 rd -24 th	2015

16.	Jyoti Kashyap and Ufana Riaz	<i>Facile synthesis of Poly(o-phenylenediamine)/cobalt ferrite nanocomposite particles with enhanced Photocatalytic Activity</i>	National Conference on Interdisciplinary. Approaches in Chemical Sciences (IACS-2015) Jamia Millia Islamia, New Delhi, 14 th -17 th February	2015
17.	Anurakshi Verma and Ufana Riaz	<i>Synthesis, characterization and drug release properties of poly (o-anisidine) intercalated MMT nanocomposites</i>	International Conferences on Recent Trends in Material and Devices” held at Amity University Noida on December 15-17	2015
18.	Anurakshi Verma and Ufana Riaz	<i>Synthesis of PNA and its nanocomposites</i>	National Conference on Nanotechnology and Renewable energy” held at Jamia Millia Islamia University New Delhi April 28-29	2014
19.	Ufana Riaz	<i>Workshop on X-Ray Diffraction by PAN Analytical Instruments</i>	IUCr workshop on X-ray Diffraction system and related application” held at university of Delhi, India on 25-26 Sep	2014
20.	Ufana Riaz and Imran Ahmad	<i>Controlling the growth of nanostructured polycarbazole in Bentonite using peroxides via microwave-assisted solid state in-situ intercalation and polymerization</i>	National Conference on Advances in Chemical Sciences (ACS-2013) held at Department of Chemistry, Maharshi Dayanand University, Rohtak-124001, during March 1-2	2013
21.	Ufana Riaz and Chetna Sharma	<i>Utilization of Poly(1-naphthylamine) nanotubes as a pH independent adsorbent of sulphonate dyes</i>	National Conference on Advances in Chemical Sciences (ACS-2013) held at Department of Chemistry, Maharshi Dayanand University, Rohtak-124001, during March 1-2	2013
22.	Ufana Riaz and Chetna Sharma	<i>Microwave-assisted degradation of methyl Orange using poly(1-</i>	International Conference on Chemistry: Frontiers	2013

		<i>naphthylamine?) in absence of any photocatalyst</i>	& Challenges organized by department of Chemistry of Aligarh Muslim University, India, under the SAP program 2-3 March Aligarh - 202002	
23.	Ufana Riaz and Ankur Ruhela	<i>Development of Organic-inorganic hybrid nano composites via microwave-assisted solid state intercalation and in-situ polymerization of pol(Inaphthylamine) within bentonite clay galleries</i>	International Conference on Chemistry and Materials: Prospects and Perspectives- (ICCMPP-2012) December, 14-16 held at Department of Chemistry, Lucknow University	2012
24.	Ufana Riaz and Chetna Sharma	<i>Effect of Benzoyl Peroxide on Microwave-Assisted Solid-State Intercalation and Polymerization of Carbazole in Bentonite Clay Galleries</i>	International Conference on "Advances in Materials and Processing Challenges and Opportunities (AMPCO 2012)" during Nov. 2-4, 2012 organized by Deptt. of Metallurgical and Material Engg. IIT Roorkee, Roorlee-247667	2012
25.	Ufana Riaz and Mohd.Zeeshan	<i>Microwave-Assisted Solid State Intercalation of Polycarbazole in Rhodamine-B modified Bentonite Clay Galleries</i>	APA International Congress on Advances in Human Healthcare Systems, February 20-23, 2012, India Habitat centre organized by .IIT Delhi and Jamia Hamdard.	2012
26.	Ufana Riaz	<i>Comparative studies on the effect of microwave-assisted solid-state intercalation of polycarbazole and poly (o-toluidine) into Bentonite clay galleries</i>	International conference on Nanomaterials & Nanotechnology (ICNANO), held on 18-21 December, 2011 at the Conference Centre, University of Delhi, Delhi, India	2011
27.	Ufana Riaz and Nisha Khan	<i>Comparison of mechano-chemical and microwave-assisted techniques in controlling the self-</i>	International Conference on Chemistry: Frontiers and Challenges"	2011

		<i>assembled nanostructure of polycarbazole–montmorillonite nanocomposites synthesized by solid state intercalation</i>	CENTENARY CELEBRATIONS organized by Department of Chemistry ,Aligarh Muslim University (A.M.U.),Aligarh - 202002	
28.	Ufana Riaz and Nisha Khan	<i>Role of Microwave –assisted solid state intercalation in controlling the self-assembled growth of nanostructured polycarbazole within Bentonite Clay Galleries</i>	Workshop on Nanoscience and Nanotechnology, Sponsored by UGC, organized by Department of Applied Physics Z.H. College of Engg. & Tech. Aligarh Muslim University (A.M.U.), Aligarh -202002	2011
29.	Ufana Riaz and Nisha Khan	<i>Microwave –assisted in-situ polymerization of nanostructured Carbazole into Bentonite clay galleries</i>	FIRST NATIONAL CONFERENCE ON “RECENT ADVANCES IN POLYMER NANOCOMPOSITES” Organized by Dept of Physics,Zakir Hussain College, University of Delhi	2011
30.	Ufana Riaz and Nisha Khan	<i>Effect of surfactant on self–assembled growth of microwave-assisted solid state intercalated poly(carbazole) in bentonite</i>	Professor Ram Chand Paul International Conference on “Emerging trends in Chemistry” organized by the Department of Chemistry, Panjab University, Chandigarh	2011
31.	Sharif Ahmad, Ufana Riaz and Nijas P.K	<i>Synthesis and Characterization of Blends of Castor Oil Epoxy with Poly (vinyl alcohol)</i>	2 nd International conference on polymer processing and characterization, ICPPC	2010
32.	Sarvat Zafar,Ufana Riaz and Sharif Ahmad	<i>Development of water borne BMF cured oil fatty amide grafted epoxy–acrylate coating systems</i>	RADTECH INDIA	2009
33.	Ufana Riaz, Sharif Ahmad and S.M.Ashraf	<i>Effect of oxidant on the insitu intercalative polymerization of poly(1-naphthylamine) in montmorillonite</i>	International conference on Advances in polymer Science and Technology	2008

34.	Javed Alam, Ufana Riaz and Sharif Ahmad	<i>Corrosion Protective performance of polyaniline ferrite dispersed alkyd coatings</i>	International conference on corrosion awareness NACE (CORCON 2007)	2007
35.	Javed Alam, Ufana Riaz and Sharif Ahmad	<i>High performance nanostructured Polyaniline dispersed corrosion resistant polyurethane coatings</i>	International Conference on Advanced Materials & Composites (ICAMC- 2007)	2007
36.	Sarvat Zafar, Ufana Riaz ,S.M.Ashraf and Sharif Ahmad	<i>Development of novel water borne poly (1-naphthylamine)/ poly(vinyl alcohol)-resorcinol formaldehyde cured corrosion resistant composite coatings</i>	Natural Science Info Fest(NSIF)	2007
37.	Ufana Riaz	<i>National Symposium on Nanotechnology in Medicine</i>	All India Institute of Medical sciences, New Delhi-110029	2007
38.	Ufana Riaz, S.M.Ashraf and Sharif Ahmad	<i>Sustainable resource based nanostructured corrosion protective smart coatings</i>	National Seminar on multifunctional nanomaterials NANOSTRUCTURES AND APPLICATIONS (MNNA)	2006
39.	Ufana Riaz ,Sharif Ahmad and S.M.Ashraf	<i>Studies on the corrosion protective performance of polyaniline-coconut oil polyesteramide urethane coatings</i>	International conference on corrosion awareness NACE (CORCON 2005)	2005

21. Reviewer of the Journals/books

S.No	Journal/Book	Publisher	No of Papers/books reviewed
1.	RSC Advances	RSC	15
2.	New journal of Chemistry	RSC	10
3.	ACS Applied Materials and Interfaces	ACS	02
4.	Journal of Applied Polymer Science	Wiley	08
5.	Polymer Engineering and Science	Wiley	03
6.	Polymer Bulletin	Taylor Francis	03
7.	Polymer International	Wiley	01
8.	Synthetic Metals	Elsevier	05

9.	Materials Chemistry and Physics	Elsevier	05
10.	Polymers for Advanced Technologies	Wiley	03
11.	Advances in Polymer Technology	Wiley	05
12.	Journal of Macromolecular Science Part A @ Pure and Applied Chemistry	Taylor Francis	05
13.	Desalination	Elsevier	01
14.	Journal of Alloys and Compounds	Elsevier	03
15.	Organic Semiconductors and Devices and Applications by Dr. Narayanan Unni	Bentham publishers	01
16.	Carbohydrate polymers	Elsevier	01
17.	Organic Semiconductors. Research techniques and approaches by Dr. Victor kislyuk	Bentham publishers	01
18.	<i>Finite Elements Nanotechnology by Sarhan Musa</i>	<i>CRC press</i>	01

Research Contributions

1. Innovatively used microwave, for the first time, for solid state polymerization of some nanostructured conducting polymers, viz, polycarbazole and poly(o-toluidine), completely avoiding any toxic solvent, even water, hitherto mainly polymerized in solutions or electrochemically.
2. In the highly researched area of remediation of dye polluted water a conducting polymer, poly(1-naphthylamine), was found to be highly efficient and versatile adsorbent in acidic, neutral and basic media, as compared to other reported adsorbents mostly acting in a limited pH range. The applicant for the first time used semiconducting polymers, poly 1-naphthylamine and poly(o-toluidine) and their nanocomposites with Bentonite clays, as catalyst in the degradation of several dyes through microwave radiation alone completely avoiding UV-vis exposure and in the above condition the dyes were found to degrade very fast, in less than an hour to almost 80-90% .

3. Proposed a cogent mechanism for the microwave degradation of dyes in presence of organic semiconductor-Bentonite nanocomposite, a novel contribution in remediation of dye polluted water.
4. Notable contribution in using sustainable resource based polymer like dehydrated castor oil polyesteramide/ epoxy, to obtain composites with a commercial polymer, polyvinyl alcohol, with as much as 80% of the former for producing biodegradable free standing films. This is a cheaper alternative among a host of biodegradable polymers to replace commercial polymers by high content vegetable oil based composites.
5. Worked on polymerization of macro and nanosized semiconducting poly 1-naphthylamine through different routes and their structural characterization and property evaluation.
6. Worked on the synthesis and property evaluation of their composites with sustainable resource-based polymers and has added valuable material to the scarce knowledge pool of this semiconducting polymer.