Profile of Prof. (Dr.) Sharif Ahmad

Dr. Sharif Ahmad is currently a **Professor of Materials Chemistry.** He did his Masters (1976) and Doctoral (1981) degrees in Chemistry from AMU, Aligarh. In the recognition of his work, Prof. Ahmad was nominated as the member to prestigious American Chemical Society for three years (2015 - 2018) and also has a membership of Royal Chemical Society, UK.

Prof. Ahmad has been actively engaged in teaching & research in the frontier areas of **Materials Chemistry** for the last 38 years. He has made path breaking contributions particularly in vegetable sustainable biogradable polymers, Conducting Polymers, Hydrogels and Hyper branched Polymers as well as anti-corrosive polymeric coating materials, nanomaterials etc. To his credit, Prof. Ahmad has **214 research papers** published in prestigious journals with Google Scholar **Citations of 5984, h-index 44 and i10-index 134 (**till 11th March, 2019). He has guided **27 PhD students** for their doctoral work in his laboratory at JMI, New Delhi. Currently, he is guiding 6 more Ph.D. scholars. He has presented his work in 51 National Conferences and 52 International Conferences. He is a pioneer in designing, developing and initiating a PG course in Materials Chemistry in 1985 when the said branch was not formally recognized across the globe. Recently, in order to attract bright faculty (Foreign/National Fellows), he has been instrumental in starting the "Centre for Multidisciplinary Centre for Advance Research and Studies" at JMI, New Delhi.

Prof. Ahmad attracted research grant worth Rs. 68 Lakhs from various R&D agencies, like DRDO (ARDB, NRB), Nuclear Science Center, CSIR and UGC. He has successfully executed and completed sponsored research projects. Currently, as Co-P.I. running a DBT project of more than Rs. 64 Lakh. Prof. Ahmad regularly serves as the subject expert in national committees of prestigious academic bodies as well as universities (NIT Srinagar & Allahabad, BHU, DU, AMU). Besides, he is also PhD examiners of these universities and act as subject expert in interviews at CSIR, UPSC, and Uttrakhand PSC. Prof. Ahmad has long administrative experience and remains actively engaged in university administration as well as various national academic committees. He has been the **Head, Department of Chemistry**, JMI, New Delhi (2009 to 2012); **Dean, Faculty of Natural Sciences** (March 2015-April 2018), JMI, New Delhi; acted as Superintendent for UG/PG examinations and entrance tests for different courses at JMI. He has also performed the job of Deputy Proctor (2009 to 2014); Assist Proctor (2001 to 2002); Tabulator of UG/PG Examinations (2002, 2004). He has been nominated as members of Board of Studies of many Departments, Faculty Committees, Academic Council, and Finance Committee, Executive Council and Council of Court in JMI and other universities.

His pioneering studies led to the development of volatile organic compounds-free green biogradable low molecular weight polymers/oligomers from vegetable seeds, which are still underutilized. Vegetable seed oil has wider applications in non-conventional biodiesel and polymer industries. His work on oil based polyester amides, epoxy, polyurethane, alkyds has potential scope in industries. Prof. Ahmad has also developed various oil-based polyols which have significant applications in hydrogels pertaining to drug delivery and green polymer industry. Furthermore, waterborne alkyds/polyesters are being developed and studied as high performance anti corrosive coating materials.

Prof. (Dr.) Sharif Ahmad

1. Name	**:**	**PROF. SHARIF AHMAD**
2. Date of Birth	**:**	July 13, 1954
3. Institution Address	**:**	**Professor (Materials Chemistry)** Department of Chemistry. Jamia Millia Islamia, New Delhi - 110 025, INDIA
4. Residence	**:**	B-1- Second Floor, Thokar No. 7, Shaheen Bagh, Abul Fazal Phase 2, Jamia Nagar, New Delhi- 110025
5. Contact Number	**:**	+91-11-26947508 (R), +91-9891290510 (M),
6. Email	**:**	**sharifahmad_jmi@yahoo.co.in**
7. Research Specialization	**:**	Sustainable polymer and Nano-materials, Nano-Hydrogel, Nano conducting polymers, Anticorrosive coating materials, Nano-organic/ Inorganic hybrid coatings, High temperature oxidation, Hot corrosion
8. Google Scholar Citation	**:**	5984 (till 11th March, 2019)
9. h-index	**:**	44
10. i10-index	**:**	134
12. Experience of Guiding Research: guided**:**		27
No. of Ph.D. under supervision	**:**	5+1 (co supervision)
Mentor for CSIR SRA	**:**	4
No. of BSR JRF and SRF Fellows	**:**	1+3
(i) UGC Non-NET Fellow	**:**	5
No. of M.Sc students guided for their Research Projects guided	**:**	41
Mentor of Dr DS Kothari Post Doc fellows	**:**	3
13. Publication details		
(i) Total no of publications	:	218
(ii) National Journals	:	11

(iii) International Journals : 207

(iv) Lectures and paper presented in National and International conferences : 16

(v) Papers contributed in National and International Conferences and workshops : 104

14. Resource person (Subject expert)

(i) CSIR, New Delhi for selection of SRF, RA and SRA (pool) since 2007 till date

(ii) UPSC, New Delhi for various posts

(iii) Ministry of Agricultural, New Delhi for the post of Scientists 2009 & 2013

(iv) Ph.D. evaluation at Delhi Technical University (DTU), Aligarh Muslim University (AMU) University of Kashmir and NIT Srinagar, MNIT Allahabad etc.

(v) Selection committees in Rohilkhand University, Bareli, since 2013.

(vi) Visiting faculty (M. Tech. Nanotech) in Nanoscience Centre, Jamia Millia Islamia, New Delhi, since 2007.

(vii) Examiner for project dissertation of M.Tech. Polymer technology at Centre for Polymer technology, IIT Delhi, New Delhi, since 2008.

15. Academic contribution:

Curriculum Development

(i) Lab Course for P G Classes : Designed 16 experiments in Materials chemistry experiments based on polymers, corrosion, metals, ceramics, semiconductor and single crystals

(ii) Theory Course for PG Classes :
(a) Defects, Deformations and Electronic Properties of Materials
(b) Elements of Materials Chemistry (Composites, nano-materials, liquid crystals, high Tc materials)

(iii) Prepared and propose a centre : Centre for polymers and corrosion sciences

16. Administrative Experience

- Dean, Faculty of Natural Sciences, J.M.I, New Delhi: March 2015-2018.
- Head, Department of Chemistry, J.M.I, New Delhi: Oct 2009-Oct 2012
- Centre Superintendent for various entrance test of J.M.I.: 2009-2014.
- Assistant superintendent of compartmental examinations 2006.
- Assistant superintendent entrance test examination for the session 2005-2006.
- Deputy proctor 2002-2005.
- Assistant proctor 2001-2002.
- Member of ***"flying squad"*** for university annual examinations since 1999-2004.
- Tabulator of all the courses of faculty of Natural sciences in 2002 and 2004.
- Member of admission committee of various courses in Jamia Millia Islamia.

- Member of the Departmental Research Committee (DRC) of Amity Institute of Applied Sciences (AIAS).
- Head, Department of Chemistry, Jamia Millia Islamia, 2009-2012.
- Member of **Anjuman** (court) of Jamia Millia Islamia, 20 Sept. 2011-15th Oct 2012 and 10 March 2015– 09 March 2018.
- Member of **Finance Committee** of Jamia Millia Islamia, Since 2016.
- Dean, Faculty of Natural Sciences, Jamia Millia Islamia, Since March 2015.

17. Academic Qualifications:

Degree	**Institution**	**Year**	**Subject**
Ph.D.	A.M.U. Aligarh	1981	High temperature resistance Coatings on Fe-base alloys
M.Phil.	A.M.U. Aligarh	1977	Inorganic Coatings
M.Sc.	A.M.U. Aligarh	1976	Analytical Chemistry
B.Sc.	A.M.U. Aligarh	1974	Chemistry (Hons.)

18. Teaching Positions:

Duration	**Institution**	**Designation**	**Nature of work done**
1985-88	Jamia Millia Islamia	Lecturer	Teaching B.Sc. and M.Sc. classes. Guiding M.Sc. students for Project work and Ph.D students for their doctoral work in the field of hydrogels, drug delivery system, Anticorrosive Organic/ Inorganic Coatings on Fe- base alloys, conducting polymers & nanomaterials.
1988-98	-do-	Sr. Lecturer	-do-
1998-2005	-do-	Reader	-do-
2006 till date	-do-	Professor	-do-
Oct2009-Oct 2012	-do-	Head of the Department	Teaching/Research and Administration

19. Research Position:

Duration	**Institution**	**Designation**	**Nature of work done**
1977-81	A.M.U. Aligarh	JRF	Inorganic Coatings on Fe-base alloys (Doctoral work)
1981-83	A.M.U. Aligarh	SRF/PDF	High temperature oxidation and hot corrosion of Fe-, Ni, Co- base alloys (Post Doct. Work)
1983-85	A.M.U. Aligarh	UGC, RA	High Temp. Resistant Ceramic Coatings

20. Research Projects Undertaken

S.No.	Research projects	Agency	Cost	Duration
1.	*Role of Transition metal Carbides on the High Temperature Oxidation Behavior of Fe- base Alloys(Minor Project) (P.I.)*	UGC	Rs 12,000	1991-1993
2.	*Development of low cost anticorrosive coatings from non edible seed oil (Major Project) (P.I.)*	UGC	Rs.6,00,000	1994-1998
3.	*Upgradation of Materials Chemistry lab. (Special grant) (P.I.)*	JMI	Rs. 7,89,000	1995-1998
4.	*Development of Epoxy based Anticorrosive Paints for Mg-alloys(P.I.)*	Aeronautics R&D Board-(DRDO)	Rs. 5,20,000	1997-1999
5.	*Studies on ion track grafting of GMA on polypropylene and development of propylene based nanocomposites(P.I.)*	Nuclear Science Center ,Delhi	Beam time and Rs.45000 as contingency	2004-2007
6.	*Development of Anti-corrosive Conducting Polymeric Coating Materials(P.I.)*	C.S.I.R	Rs.9,50,000	2005-2008
7.	*Development of high performance conducting polymer dispersed marine coatings(P.I.)*	NRB (DRDO)	Rs 39,00,000	2009-2011
8.	DBT(DST) Co-P.I.	Development of diagnostic kits for simultaneous detection of virus infecting patchouli and rose plants	Rs 6433000	2017-2020
	Total Fund received from Different funding agencies	**Rs. 13249000**		

21. Details of Orientation Program/Courses undertaken

(i) Participated as **Invited Speaker in "World Education Summit, Skilling Youth-Skilling India",** held at **Le Meridien, New Delhi** on Aug, 21-22, 2015**.**

(ii) **Coordinator for Refresher courses**

- 1st 3-week Refresher course in Chemistry (20th August-17th September, 2009)
- 2nd 3-week Refresher course in Chemistry (18th Nov-7th Dec, 2013)
- 3rd 3-week Refresher course in Chemistry (10th Oct-Nov 10, 2014)

(iii)**IGNOU Counseling (1992-2003)**

Counseling of science graduate students of IGNOU since 1992.

(iv) **Orientation Program**

Orientation program for academic counselors of B.Sc. (Gen) organized by IGNOU, Regional Center Delhi during 29-30th Sept. 1995

(v) **Orientation Course**

Orientation course attended during 30th Jan. to 26th Feb. 1990 conducted by Academic Staff College, JMI, New Delhi 110025.

22. Nominated for the research accomplishments in "*Marquis Who's Who in Medicine and Healthcare*"- *a biographical resource of healthcare professionals & researchers.*

23. Reviewer of

(i) Journal of Materials Chemistry (RSC)

(ii) Journal of Applied Polymer Science

(iii) Journal of Macromolecular Science Part- A Pure and Applied Chemistry
(iv) Surface and Coating Technology
(v) Progress in organic coatings
(vi) RSC Advances
(vii) Many others international journals

24. Following papers received Best paper award from Governing Council of MAAS (Muslim Association for the Advancement of Science) in Physical Sciences

(i) "Studies on Ambient cured polyurethane modified epoxy coatings synthesized from a sustainable Resource" Sharif Ahmad, S.M.Ashraf, E.Sharmin, F.Zafar and Abul Hasnat, Prog Cryst Growth Ch Mater., 45, 83-88, 2002.

(ii) "Newly developed urethane modified polyetheramide based anti-corrosive coatings from a sustainable resource"-2004 published in Progress in Organic coatings, 50, 224-230, (2004).

(iii) "Composite gel electrolytes based on PMMA hydrophilic fumed silica"-2004 in Physical sciences published in Ionics, 9, 439-443, (2003).

25. Details of Lectures/Seminar/Workshops participate

2017: Invited lecture on "Sustainable Polymers" Ist refresher course in Chemistry Jawahar Lal Nehru University New Delhi held on 19th January 2017.

2016: Invited talk on "Nanomaterials and their applications in anticorrosive polymer Coatings" in national conference on emerging trends in applied sciences held on September 23-24, 2016 galgotias university campus

2016: Invited talk on "Natural and chemical Disasters" in Refresher course on Disaster Management at Academic Staff College Jamia Millia Islamia New Delhi on 9th August 2016.

2016: Invited talk on "Development of Sustainable Polymer and their Anti-Corrosive Coatings" in 'Innovative Research on Materials under Science & Engineering' Faculty Development Programme held on April 17, 2016 at Mahatama Jyotiba Phule Rohilkhand University , Bareilly.

2016: Invited talk on "Biologically active sustainable Green Coatings" in series of extension lectures held on 22.02.2016 at Department of Biosciences, Jamia Millia Islamia, New Delhi, India.

2015: Invited lecture on "Ferrite(Fe_3O_4) dispersed Soy Alkyd nanocomposite anticorrosive coatings. In 3rd Indo-Italian Workshop on Electrochemistry for energy & Health (IIWEc-2015), held on July 3rd-4th, 2015, University of Delhi, India.

2015: Vegetable oil based green polymers and their applications: Paints, coatings & hydrogel based drug delivery systems, Asian Network for Natural and unnatural Materials 4, Prelude, at department of Chemistry, IIT Delhi, May 20, 2015.

2015: Green and Sustainable chemistry, 5th Refresher course of Basic Science Centre at academic staff College, JMI, New Delhi, May, 19, 2015.

2015: One day workshop (attended as V.C. nominee) on "Road Map for Preventing and Control of Air Pollution from Stubble Burning in Agriculture Fields", organized by Punjab Govt. and Central Pollution Control Board, New Delhi, on 8th Jan, Chandigarh, 2015.

2014 : Delivered a lecture on Sustainable chemistry and their applications, in 3rd week Refresher course of a Science Centre at academic staff College, JMI, New Delhi, May, 28, 2014

2014 : A lecture on Solid state chemistry on "Science, Social Science and languages" Under orientation programme for school teachers at Teachers training college, JMI, New Delhi, August, 1, 2014

2013 : Attended Science Academics Lecture workshop on Nanoscience and Nanotechnology March 1-2, 2013 at Department of Chemistry, JMI, New Delhi

2013 : Coordinator to the 2nd 3-week Refresher Course in Chemistry UGC-Academic Staff College, JMI, New Delhi, Novemeber 18 – December 7.

2007 : Participate in one day summer school workshop on Chromatographic techniques held on September 10, 2007 at the department of chemistry, JMI New Delhi

2005 : Delivered lecture on paints module programme at training programme for RITES Inspecting Engineers at, I.I.T, New Delhi on July 4-15.

2004 : Delivered lecture on paints module programme at training programme for RITES Inspecting Engineers at, I.I.T, New Delhi on 16 June.

2001 : Delivered a lecture on *Polymeric Paints* at CPDHE, University of Delhi on 16th April.

1994 : Participated in a panel discussion, chaired by Dr. S.A Hussaini, in a conference held at Manekshaw Auditorium, Subroto Park, New Delhi on strategic material held in 24th November 1994.

1991 : Current trends in chemical research organized by Department of Chemistry University of Delhi, Jan 7-8.

1987 : VIth International workshop on Physics of Materials Department of Physics J.M.I New Delhi (Nov 23 - Dec 5).

1984 : Workshop on oxidation of materials and alloys Kalpakkam Dec13-14 Organized by D.A.E Govt. of India

1983 : National Metallurgical Laboratory, Jamshedpur, Jan12 on the following topics:

- High temp oxidation and hot corrosion behavior of some inorganic Coatings on 303 steel
- High Temperature Oxidation of iron & iron base alloys

26. Books Published

(i) Fahmina Zafar, E.Sharmin, S. Shreaz, H. Zafar, M. U. H. Mir, J. M. Behbehani and **Sharif Ahmad**, A biobased polymer nanocomposite for a pharmaceutical application,

DOI: 10.1002/9781119041375.ch10, 2015, Handbook of Polymers for Pharmaceutical Technologies, Volume 1, Structure and Chemistry, Eds: Vijay Kumar Thakur, Manju K. Thakur, Publishers: Wiley, 978-1-119-04134-4.

(ii) **Experiments in materials science and materials chemistry**: Experiments manual of polymers by S.M.Ashraf, **Sharif Ahmad** and Ufana Riaz published *by* IK international, Delhi, India.

(iii) **Experiments in materials science and materials chemistry: Experiments manual of metals and alloys** by S.M.Ashraf, **Sharif Ahmad** and Ufana Riaz published by IK international

(iv) **Organic-Inorganic Hybrid Nanocomposites for Sensing Application by** Ajeet Kaushik**, Sharif Ahmad,** Bansi D Malhotra, **LAMBERT Academic Publishing,** Germany, 2011. ISBN: 978-3-8454-4243-3

(v) **"Nanogels for Biomedical Applications"** by Arti Vashist, Ajeet Kaushik, **Sharif Ahmad** and Madhavan Nair published by Royal Society of Chemistry UK.ISSN: 2046-0066.

Contribution of Book Chapters

(i) E.Sharmin, M. Azam,Fahmina Zafar, D. Akram, Q. M. Rizwanul Haq and **Sharif Ahmad**, Green Organic-Inorganic Hybrid Material From Plant Oil Polyol, Biomaterial applications micro to nanoscales, Apple Academic Press, Inc., USA (Exclusive worldwide distribution by CRC press, ATaylor & Francis group, Chapter 1, 01-14, 2015, 978-1-77188-027-5.

(ii) Chapter 9 **"Specialty coatings and adhesives" in a book entitled "Treatise on special polymers"** published in 2006 by IK international, India.

(iii) **Nanostructural Material for Energy Storage and Conversion**, Editors: C.M. Julien, P. Mc Ginn, W. West and J.P. Dodelt,The Electrochem. Soc., Pennington, NJ, 11 (2005) pg. 187.

(iv) **2 eBooks (NISCAIR): Coatings & Adhesives, Title of Chapter: Safety Aspects of Coatings**

(v) "**Organic-inorganic composite coatings**" by Eram Sharmin, Fahmina Zafar, Manawwer Alam and Sharif Ahmad in the book "Advanced Organic-Inorganic Composites: Materials, Devices and Allied Applications", Nova Science Publishers, Inc., Edited by Dr Inamuddin ISBN 978-1-61324-264-3, 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788-3619, USA in the year 2011.

(vi) **"One Pot Preparation of Greener Nanohybrid from Plant Oil**" by Eram Sharmin, D. Akram, A. Vashist, M. Y. Wani, A. Ahmad, F. Zafar and Sharif Ahmad in the book "Chemistry of Phytopotentials: Health, Energy and Environmental Perspectives" by M.M. Srivastava, L. D. Khemani, S. Srivastava ISBN 978-3-642-23393-7 e-ISBN 978-3-642-23394-4, Springer-Verlag Berlin Heidelberg 2011, DOI:10.1007/978–3-642–23394-4_48 pg. 223 in the year 2012.

(vii) **"Vegetable Seed Oil Based Waterborne Polyesteramide: A "Green Material**" by F. Zafar, H. Zafar, M. Yaseen Shah, E. Sharmin and Sharif Ahmad, in the book "Chemistry of Phytopotentials: Health, Energy and Environmental Perspectives" by M.M. Srivastava, L. D. Khemani, S. Srivastava, ISBN 978-3-642-23393-7 e-ISBN 978-3-642-23394-4, Springer-Verlag Berlin Heidelberg 2011, DOI:10.1007/978–3-642–23394-4_48 pg. 127 in the year 2012

(viii) "**Renewable resources in corrosion resistance**" by Eram Sharmin, Sharif Ahmad, and F.Zafar, in the book "Corrosion Resistance" Edited by Hong Shih, by InTech Open Access Publishers, ISBN 978-953-51-0467-4 www.intechweb.org, Janeza Trdine 9, 51000 Rijeka, Croatia +385 51 686 166, info@intechweb.org Status: Published March 30, 2012, DOI: 10.5772/1844

(ix) **"Seed oil based polyurethanes: an insight**" by Eram Sharmin, Fahmina Zafar and Sharif Ahmad in the book "Polyurethane" by InTech Open access publishers, ISBN: 978-953-51-0726-2, Status: Published: August 29, 2012.

(x) "**Renewable resource based advanced functional composites and nanocomposites**" by Fahmina Zafar, Deewan Akram, Manawwer Alam, Eram Sharmin, and Sharif Ahmad in the book "Advanced Functional Polymers and Composites: Materials, Devices and Allied Applications" by International Publisher Nova Science Publishers, Inc, USA.

(xi) **Recent Advances in Environment-Friendly Alkyd Nanocomposites Towards "Greener" Coatings,** Eram Sharmin, Fahmina Zafar, Nahid Nishat, **Sharif Ahmad,** in the book **Green Nanotechnology,** Marcelo L. Larramendy and Sonia Soloneski,Chapter 8, IntechOpen, DOI: 10.5772/62448., 2016.

(xii) **"Polymeric Nanocomposite Hydrogels as Emerging Biomaterials"** by Arti Vashist, Rabia Kousar, Ajeet Kaushik, Atul Vashist, Rahul Dev Jayant, **Sharif Ahmad**, Y.K. Gupta and Madhavan Nair, in the book Biopolymers and Nanocomposites, Nova Science Publisher,Inc. 2017, ISBN:978-1-53610-635-0.

(xiii) **"Advances in Carbon Nanotube Based Conducting Polymer Composites"** by Sajid Iqbal, Rangnath Ravi, Anujit Ghosal, Jaydeep Bhattacharya, **Sharif Ahmad** in the book Engineered Carbon Nanotubes and Nanofibrous Material: Integrating Theory and Technique, Chapter 6, Apple Academic Press, 2018, ISBN: 9781771887045

(xiv) **"Carbon Nanotubes Based Adsorbent: An Efficient Water Purification Technology"** by Rangnath Ravi, Sajid Iqbal, Anujit Ghosal, Sharif Ahmad in the book Engineered Carbon Nanotubes and Nanofibrous Material: Integrating Theory and Technique, Chapter 7, Apple Academic Press, 2018, ISBN: 9781771887045

(xv) **Conductive Thermoset Composites,** Halima Khatoon, Sajid Iqbal, **Sharif Ahmad,** in the book **Thermoset Composite,** Materials Research Foundations, (2018), 38, Chapter 7, DOI: 10.21741/9781945291876

27. Memberships

(i) Member of Academic Studies "Member board of Studies (Chemistry)" of Rohilkhand University Barailey (2004-2007)

(ii) Member Editorial Board of "Material Science and Research India" since 2005

(iii) Member of the Editorial Board of the Indian Science Abstracts (ISA), NISCAIR India, 2011-2013 and Jan, 2015 to Dec, 2017.

(iv) External member of Board of Studies(Chemistry) Jamia Hamdard University, New Delhi (2005-2008)

(v) External member of Board of Studies (Applied Chemistry) A. M. U., Aligarh UP (2005-2008)

(vi) Member Board of Studies (Dept. of Biosciences) JMI, New Delhi-25 (2008-2011) and 2015-2018)

(vii) Member Board of Studies (Dept. of Electrical Eng.) JMI, New Delhi-25 (2009-2012)

(viii) Member faculty committee, Faculty of Engg. & Tech., AMU, Aligarh, 12.09.2013-12.09.2015.

(ix) Member of Advisory Board Amity University, Noida Uttar Pradesh, 2013-2015.

(x) Member of Editorial Board Journal of Physical and Chemical Gels, 2014 onward.

(xi) Life member of Society of Indian Association of Solid State Chemists & Allied Scientists (ISCAS).

(xii) **Member of Royal society of Chemistry (Membership No 519468)**

(xiii) Life member of Society Materials Chemistry, **BARC**

(xiv) Member of School Board of chemical sciences Central University Haryana 2011-2013.

(xv) Member of research advisory committee for materials science division, Shriram Institute for Industrial Research, New Delhi (Feb, 2015 onwards).

(xvi) **Awarded three years membership in the American Chemical Society, In recognition of engagement with the society's mission of service to the Global Community of Chemists on July 9th, 2015.**

28. Details of Research Guidance

(A) Ph.D. theses guided/Co-guided

1. ***Development of Anticorrosive coating on iron and aluminium alloys***
   Name of student: *Kanak Lata. Verma*
   Year of submission: 1999
   Institution: Jamia Millia Islamia
2. ***Synthesis of polyesteramide from different seed oils and study of Anticorrosive behaviour of their coatings on mild steel***
   Name of Student*: Shakuntla Yadav*
   Year of submission: 2000
   Institution: Jamia Millia Islamia
3. ***Synthesis and Characterization of Epoxy based polymeric anticorrosive paints for AZ 91 and ZM 21 Mg Alloys***
   Name of Student: *Abul Hasnat*
   Year of submission: 2002
   Institution: Jamia Millia Islamia
4. ***Studies on the synthesis and characterization of oil epoxy from Non Conventional Seeds Oil***
   Name of Student: *Mohd Aslam*
   Year of submission: 2003
   Institution: Jamia Hamdard
5. ***Physico-chemical Studies of the polymeric blends of some vegetable oil based epoxies and polyesteramides***
   Name of Student: *Hari Om Sharma* (Co-guided)
   Year of submission:2004
   Institution: Jamia Millia Islamia
6. ***Preparation and functioning of antipollution polymer strips for adsorption of CO***
   Name of Student: Suman Yadav
   Year of submission: 2004
   Institution: Jamia Millia Islamia
7. ***Studies on Physico-chemical and Anti-corrosive behavior of modified Polyesteramides Coatings from sustainable Resource***

Name of Student: Fahmina Zafar
Year of submission: 2005
Institution: Jamia Millia Islamia

8. ***Development of Urethane and Acrylate modified oil epoxy based corrosion protective coatings from sustainable resource***
Name of Student: *Eram Sharmin*
Year of submission: 2006
Institution: Jamia Millia Islamia

9. ***Synthesis and Characterization of New Amine, Silicone and Carboxyl modified vegetable oil fatty amide diol anticorrosive polymeric coatings***
Name of Student: *Manawwer Alam*
Year of submission: 2006
Institution: Jamia Millia Islamia

10. ***Studies on composite Polymeric Electrolytes***
Name of Student**:** *Shahzada Ahmad*
Year of submission: 2006
Institution: Jamia Millia Islamia

11. ***Development and Applicational Studies of copolymer(s) and blend(s) of some conducting polymers***
Name of Student: *Ufana Riaz*
Year of submission: 2006
Institution: Jamia Millia Islamia

12. ***Design and Synthesis of Potentially Bioactive Compounds***
Name of Student: *Ajay Soni*
Year of submission: 2007
Institution: Jamia Millia Islamia

13. ***Development of Sustainable Resource based Water-borne Coating Materials***
Name of Student: S*arvat Zafar*
Year of submission: 2008
Institution: Jamia Millia Islamia

14. ***Development, characterization and applicational studies of ferrites containing nano conducting polymers***
Name of Student: *Javed Alam*
Year of submission: 2008
Institution: Jamia Millia Islamia

15. ***Studies on Radiation graft modification of Polypropylene and Development of PP based Nanocomposites***
Name of Student: *Shashi Chawla*
Year of submission: 2008
Institution: Jamia Millia Islamia

16. ***Studies on Heavy Metals Removal from the effluents of metal Planting Industries***
Name of Student: *M.Subba Rao* (Co-Guide)
Year of submission: 2008
Institution: Jamia Millia Islamia

17. ***Organic-Inorganic Hybrid Nanocomposites for Sensing Applications***
Name of Student: *Ajeet Kumar Kaushik*
Year of submission: 2010

Institution: Jamia Millia Islamia

18. ***Development of Corrosion Protective Coating Materials from Vegetable Oil Based Polyol***
    Name of Student: *Deewan Akram*
    Year of submission: 2010
    Institution: Jamia Millia Islamia
19. ***Development and characterization of poly (urethane-amide) protective coating materials from renewable resource***
    Name of Student: Mohammad Kashif
    Year of submission: 2012
    Institution: Jamia Millia Islamia
20. ***Studies on the development, characterization and applications of nanocomposites and nanoblend based anticorrosive coatings and paints***
    Name of Student: *Obaid Ur Rahman*
    Year of submission: 2013
    Institution: Jamia Millia Islamia
21. ***Development of waterborne alkyds and their derivatives***
    Name of Student: Shabnam Pathan
    Year of submission: 2013
    Institution: Jamia Millia Islamia
22. ***Development, characterization of noval micro/nano hydrogels and study of their applications in experimental model for neurological disorders***
    Name of Student: Arti Vashist
    Year of submission: 2014
    Institution: Jamia Millia Islamia
23. **Development and evaluation of anticorrosive organic-inorganic hybrid polymeric coatings**
    Name of Student: Anujit Ghosal
    Year of submission: 2015
    Institution: Jamia Millia Islamia
24. **Development of nano conduting polymers dispersed Epoxy and polyurethane based protective composite coatings.**
    Name of Student: Neha Kanwar
    Year of submission: 2015
    Institution: Jamia Millia Islamia

(B) Ph.D. work in progress

1. ***Hyperbranched vegetable oil based anticorrosive polymer nanocomposite coatings.***
   Name of Student: Shahidul Islam Bhat
2. ***Preparation characterization and application of vegetable oil based water borne polymer nanocomposite***
   Name of Student: Mohd Irfan
3. ***Development of biodegradable polymer based nanocomposite hydrogels***
   Name of Student: Rabia Kouser

4. ***Development of nano conducting polymer dispersed sustainable resource based polyurethane anticorrosive coatings***
   Name of Student: Halima Khatoon
5. ***Exploring Ferrite based Hybrid Conducting polymers and their Applications***
   Name of Student: Sajid Iqbal
6. ***Transition metal bimetallic nanoparticles and their applications***
   Name of Student: Rangnath Ravi
7. ***Synthesis and characterization of oleo linear and hyperbranched polyurethane and its application***
   Name of Student: Younes Ahmadi
8. ***Synthesis, characterization and propertiesof vegetable oil based anticorrosive polymeric coatings***
   Name of Student: Mohammad Irfan Bakshi
9. ***Chemical functionalization of nature based polymers through organiuc reactions***
   Name of Student: Ashiq Hussain Pandit ((Co-Guide)

29. Contribution in International/National Conferences

NATIONAL CONFERENCES

2017

1. Invited lecture on Sustainable Polymers and their Application as Anti-Corrosive Coatings in National Conference organized by Department of Chemistry & Mechanical Engineeringheld on March 22-23 2017 at Harcourt Butler Technical University Kanpur-208002, UP, India
2. Invited lecture on "Sustainable Polymers" in Ist refresher course in Chemistry Organised by UGC Human Resource Development Centre Jawahar Lal Nehru University New Delhi held on 19th January 2017.

2016

3. Invited talk on "Nanomaterials and their applications in anticorrosive polymer Coatings" in national conference on emerging trends in applied sciences held on September 23-24, 2016 Galgotias University Campus.
4. Invited talk on "Natural and chemical Disasters" in Refresher course on Disaster Management organized by UGC Human Resource Development Centre, Jamia Millia Islamia New Delhi on 9th August 2016.
5. Invited talk on "Development of Sustainable Polymer and their Anti-Corrosive Coatings" in 'Innovative Research on Materials under Science & Engineering', Faculty Development Programme held on April 17, 2016 at Mahatama Jyotiba Phule Rohilkhand University , Bareilly.
6. Invited talk on on "***Biologically active sustainable Green Coatings"*** in series of extension lectures on 22.02.2016 held at Department of Biosciences, JMI, New delhi

2015

7. Delivered the introductory lecture in inaugural session and chaired the first session (10.30 am-1.00 pm) in one day National Conference on "Interdisciplinary Approaches in Chemical Sciences" held on Dec 16, 2015 at Centre for Interdisciplinary Research in Basic Sciences, JMI, New delhi.

8. Invited talk on**,** Green and Sustainable chemistry, 5th Refresher course of Basic Science Centre at academic staff College, JMI, New Delhi, May, 19, 2015.
9. Invited talk on **"**Vegetable oil based green polymers and their applications: Paints, coatings & hydrogel based drug delivery systems," Asian Network for Natural and unnatural Materials 4, Prelude, at department of Chemistry, IIT Delhi, May 20, 2015.
10. Participated One day workshop on "Road Map for Preventing and Control of Air Pollution from Stubble Burning in Agriculture Fields", organized by Punjab Govt. and Central Pollution Control Board, New Delhi, on 8th Jan, Chandigarh, 2015.

2014

11. "Organic/Inorganic functional Materials: A Current Perspective Programme", March 1, 2014, Gaurakhpur
12. Recent Advances in Chemistry (RAC-14), organized by Natural Science, Jamia Millia Islamia (Central University), New Delhi, 1st March 2014
13. Organic/ Inorganic nanoparticles dispersed anticorrosive nanocomposite coatings" Innovations in Sciences and Technology for Inclusive Development (ISCA Haridwar chapter) held at Department of Chemistry, Ch. Charan Singh University, Meerut (UP) India, March-22-23, 2014.
14. Invited talk on "Eco-Friendly Anti-Corrosive Nano Polymer Composite Coatings," International Conference on Recent Advances in Nanoscience and Nanotechnology-2014, 15-16th December, 2014, Organized by JNU, New Delhi.
15. Invited talk on "Sustainable chemistry and their applications," Refresher course of a Science Centre at academic staff College, JMI, New Delhi, May, 28, 2014.
16. A lecture on Solid state chemistry on "Science, Social Science and languages" Under orientation programme for school teachers at Teachers training college, JMI, New Delhi, August, 1, 2014.

2013

17. National conference on frontier areas in chemistry(NCFAC-2013) and workshop on quantum mechanics and research methodology for students, Amravati, Maharashtra, India, on 23-2 October 2013.
    - Synthesis, characterization, and application of Ni nanospheres for waste water treatment
    - Anticorrosive Nanocomposite coatings: Nano-ferrite dispersed waterborne epoxy acrylate"
18. National Level Conference on Nanomaterial and Devices (NCONAD-2013), NIT, Srinagar, October-2013
    "Eco-friendly Nano-composite Coatings for Corrosion Protection"
19. International Conferences on Chemistry: Frontiers& Challenges (ICCFC-13), March 2-3, 2013, Aligarh, AMU
    "Development of waterborne butylated melamine formaldehyde modified soy alkyd anticorrosive coatings"

2012

20. "Recent Advances in Chemistry-2012" by the Dept of Chemistry, Jamia Millia Islamia, New Delhi-110025 on 12th March 2012
    "*Castor oil derived organic-inorganic hybrid coatings*"
21. Polymer blends and composites coatings for Renewable Resources" Recent Trends in Materials Science Research (RTMSR), National Institute of Technology Srinagar (NIT), Srinagar, September 3-5, 2012

2011

22. **Aligarh Nano-I**, Workshop on **Nanoscience and Nanotechnology**, sponsored by University Grants Commission, organized by the Dept of Applied Physics, Zakir Hussain College of Engineering & Technology, Aligarh Muslim University, Aligarh, on March 26- 27, 2011.
    - "Microwave irradiated synthesis and characterization of seed oil derived polymer/organomontmorillonite nanobiocomposite"
    - "Corrosion protective performance of Nano-Ferrite (NF) dispersed butylated melamine formaldehyde (BMF) modified waterborne epoxy-acrylate (EpAc) Coatings".
23. National Seminar on"Anticorrosive studies of butylated melamine formaldehyde waterborne alkyd by Electrochemical Impedence Spectroscopy" March 26-27, 2011, Department of Applied Physics, AMU, Aligarh.
24. National Symposium on Microwave Field Measurement, Biological Effects and Application in Nano-Science, organized and sponsored by Jawaharlal Nehru University and Microwave Applications Society of India (MASI), New Delhi, held at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, on March 4, 2011
    "Bio-based metallohybrids for protective coatings en route green chemistry"
    PAPER AWARDED "YOUNG SCIENTIST AWARD"
25. Recent Advances in Chemistry (RAC-11), organized by Natural Science, Jamia Millia Islamia (Central University), New Delhi, March 10, 2010
    - "Hydrogels : Innovative vehicles for drug delivery" **(AWARDED)**
26. First National Conference on **Recent Advances in Polymer Nanocomposites**, held at the Department of Physics, Zakir Husain College, University of Delhi, Delhi on Jan 14-15, 2011
    - "Preparation, characterization and comparative studies of Castor oil based nanostructured biohybrids"
    - "Development, characterization and applications of bio-nanocomposites based on polyurethanefattyamide/clay"
27. 7^{th} National Symposium and Conference on Solid state Chemistry and Allied Areas(ISCAS 2011) organized by Department of Chemistry, Jamia Millia Islamia in association with ISCAS, New Delhi, India, **November 24-26 2011.**
    "Vegetable seed oil derived metallopolymers as ecofriendly protective materials"
    ISCAS "High performance Ferrite based Organic –inorganic Hybrid Materials: Opportunities and Challenges"
28. High performance Ferrite based organic inorganic Hybrid Materials: O.ertunities and Challenges", 7^{th} National Symposium and Conferences on Solid State Chemistry & Allied Areas (ISCAS-2011) held in Jamia Millia Islamia, New Delhi, India on November 24-26.
    "Chemistry in our Lives-Issues and Challenges" One Day Seminar, March 28, under UGC-SAP programme, Chaired technical session II, jmi, New Delhi.

2010

29. **National Science Congress in Indian Languages,** organized by Swadeshi Science Movement of India at National Physical Laboratory, New Delhi on November 22 and 23, 2010
    "Vegetable oils-an environment friendly and biodegradable source for polymers"
30. **Recent Advances in Chemistry (RAC-10),** organized by Natural Science, Jamia Millia Islamia (Central University), New Delhi, March 10, 2010

"Deciphering the role of novel pH responsive hydrogels as drug delivery systems" **(AWARDED)**

31. **Recent Advances in Chemistry (RAC-10),** organized by Natural Science, Jamia Millia Islamia (Central University), New Delhi, March 10, 2010
"Microwave Assisted Synthesis Of Eco-Friendly Polymeric Coating Material"
32. **Recent Advances in Chemistry (RAC-10),** organized by Natural Science, Jamia Millia Islamia (Central University), New Delhi, March 10, 2010
"Utilization of sustainable resources to combat corrosion"
33. **Recent Advances in Chemistry (RAC-10),** organized by Natural Science, Jamia Millia Islamia (Central University), New Delhi, March 10, 2010
"Biobased organic-inorganic hybrid materials as protective coatings"
34. National Symposium on **Chemistry In Biology: The Future Of Life Sciences** organized by Acharya Narendra Dev College, University of Delhi, February 12-13, 2010, "Triglyceride based waterborne polyesteramide"

2009

35. **"Renewable Resource Based Polymers for Protective Application"** 2nd National Conference on Innovations in Indian Science, Engineering and Technology (Bilingual: Hindi & English), Organized by Swadeshi Science Movement of India, MERI College of Engineering and Technology, Janakpuri, New Delhi, 17th -19th July 2009.
    - "Solvent Free Microwave Synthesis of Pongamia Glabra Oil Based Polyesteramide"
    - "Studies on microwave synthesized polyol from linseed oil"
36. Conference on "**Interface between Chemistry and Biology**" held on 8th Oct 2009 at Jamia Millia Islamia, New Delhi.
    - "Chemical Transformations of Bio-based precursors: An Interface between biology and chemistry"
    - "Seed Oils at the interface of biology and chemistry"
    - "Biobased organic-inorganic hybrid materials"
    - "Synthesis and characterization of novel pH responsive hydrogels and their application as drug delivery system" **(BEST POSTER AWARDED)**
37. National Symposium On Nano-Science: Theory and Applications preceded by workshop on Microwave: Principals and applications (NSTA-MAP-2009), JNU, New Delhi, 6th -7th November.
    - "Bionanocomposite based on poly (urethane- Pongamia glabra fattyamide)/nanoclay "
    - Organic-inorganic nanohybrids enroute green chemistry"-**AWARED "THE YOUNG SCIENTIST AWARD"**
38. Invited lecture on "Defects in Materials" in refresher course conducted by Department of Chemistry, University of Allahabad.
39. Invited talk on "Sustainable resource based corrosion protective coating materials" at Department of Applied Chemistry Zakir Hussain College of Engineering and Nanotechnology. AMU, Aligarh.

2008

40. **National Conference on Chemistry- structure, Reaction Dynamic and Spectroscopy**, organized by Department of Chemistry, St. Stephen's College, University of Delhi, 21st -23rd August.
"Development of polymeric resin from toluylene-2, 4 (6)- diisocyanate and diol linseed fatty amide"

41. **Natural Science Info Festival 2008**, organized by Natural Science, Jamia Millia Islamia (Central University), New Delhi, 1st November**.**
    - "Zn-containing self-cured polymer from non-drying oil"
    - "Comparative study of poly (urethane - linseed fatty amide) from different diisocyanate" **BEST POSTER AWARD**
42. **National Workshop on Nano Sensor and Devices,** December 22-23, IIT Delhi**.**
    "Sol-gel Derived Nanostructured Cerium Oxide Film Based Immunosensor for Ochratoxin A Detection"

2007

43. **National Symposium in Chemistry (NSC-07),** sponsored by the Chemical Research Society of India (CRSI) organized by and held at the Dept. of Chemistry, University of Delhi, Delhi, India on Feb. 2-4, 2007
    "Chemistry of seed oils-natural precursors for industrial products"
44. **Natural Science Info Fest, 2007,** Organized by Faculty of Natural Science, Jamia Millia Islamia (Central University), New Delhi, 28 Feb-2 March, 2007
    - "Studies on ambient cured karanj seed oil based polyesteramides"
    - "Corrosion protective polymer from castor oil modified fatty amide diol and diisocyanate"
    - "Development of novel water borne poly (1-naphthylamine)/ poly(vinyl alcohol)-resorcinol formaldehyde cured corrosion resistant composite coatings"

2006

45. National Conference on ECO-,SONO-and Nanochemistry & Recent Advancement in Chemistry, Organised by Postgraduate and Research, Department of Chemistry, The New College, Chennai, Tamilnadu, 20^{th} –21^{st} December 2006.
    "Development of karanj oil based poly (esteramide-urethane): one pot-multi-step reactions"
46. National Conference on Innovations in Indian Science, Engineering and Technology, Organized by Swadeshi Science Movement of India, Delhi, Indian Agricultural Research Institute, Pusa, New Delhi, 24^{th}-26^{th} November 2006.
    "Low temperature development of pongamia glabra seed oil based polyesteramide without organic solvent".
47. National Symposium on Modern Trends in Chemical Sciences, Organized by Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana, 6-7^{th} October 2006.
    "Poly (Styrene-co-Maleic Anhydride) modified pongamia glabra seed oil based polyesteramide".
48. **"**Multifunctional Nanostructured Nanomaterials and Applications**"**, October 22-23, 2006 at University of Delhi, New Delhi.
    "Polyaniline-ZnO Nanocomposite Thin Film for Sensing Application"
49. Conference Natural Products and Biodiversity: Chemistry and Utilization, Organized by Chemistry Division, Forest Research Institute, P.O. New Forest, Dehradun, 2nd –3rd November.
    "Development of ambient cured polyesteramides coating material from karanj (pongamia glabra) seed oil"

2005

50. 1^{st} National Conference on Chitin & Chitosan, organised by Chemistry Department, Motilal Nehru National Institute of Technology, Allahabad, 24^{th} May.

"Styrenated Polyesteramide from Linseed Oil –A Sustainable Resource"

2002

51. National Seminar on Advanced Material, Organized by Chemistry Department, DDU Gorakhpur University, Gorakhpur, 22nd to 24th March.
"Studies on Ambient Cured Polyurethane Modified Epoxy Coatings System from Sustainable Resource"

INTERNATIONAL CONFERENCES

2019

Chaired session 8th in "International Conference on Advanced Materials", held on March 6-7, 2019, organized by Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi-, India.

2013

1. Keynote Speaker in "International Conference on Sustainable Technologies (ICST-2013)", Jamia Millia Islamia, January 18-20, 2013, New Delhi, India.
2. CORCON 2013, International Conference on Corrosion, The Lalit at Barakhamba Road, New Delhi, India, 30th September & 3st October, 2013.
   - "Renewable Resource based Organic-inorganic Hybrid Coatings and their Corrosion Protective Performance"
   - "Corrosion protective performance of nano poly (o- anisidine) / epoxy- siloxane nanocomposite coatings"
   - "Synthesis and corrosion protective coatings based on Barium Titanate"

2012

3. Indo-German Workshop on Advanced Materials for Future Energy Requirements (WAMFER 2012), organized by Dept of Physics and Astrophysics, University of Delhi and Max Planck Institute of Polymer Research, Mainz, Germany, held at the Conference Center, University of Delhi, on November 29 – December 1, 2012.
"Plant Oil based Greener Nanocomposite Coatings"
   - "Seed oil derived polymer and nanocomposite for green environment: synthesis and characterization"
   - "Castor oil polyurethane biohybrid composites for protective coatings"
4. International conference "POLYCHAR 20, World Forum on Advanced Materials", held at the University of Zagreb, Faculty of Chemical Engineering and Technology, Dubrovnik, Croatia, on March 26-30, 2012
   - "Preparation and characterization of greener nanohybrid from plant oil"
   - "Seed Oil Nano-metallopolymer: Microwave Assisted Synthesis, Biological Activity and Degradation Study"
5. The Third International Conference on Natural Polymers, Biopolymers, Biomaterials, their Composites, Blends, IPNs, Polyelectrolytes, and Gels: Macro to Nanoscales (ICNP-2012) held at the Mahatma Gandhi University, Athirampuzha, Kottayam, Kerala, India, on October 26th, 27th, and 28th, 2012.
   - "Ferrite Dispersed Hyperbranched Alkyd Nanocomposite and Their Corrosion Protective Performance

- "Green organic-inorganic hybrid materials from plant oil polyols"

2011

6. International Conference on Chemistry of Phytopotentials: Health, Energy and Environmental perspectives, organized by the Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra on November 4-November 6, 2011
   - "One Pot Preparation of Greener Nanohybrid from Plant Oil"
   - "Vegetable Seed Oil Based Waterborne Polyesteramide: A "Green" Material"
7. International conference POLYCHAR 19, World Forum on Advanced Materials Synthesis, Properties, Characterization, (IUPAC sponsored conference), organized by the Tribhuvan University, Kathmandu, Nepal on March 21- March 23, 2011
   - "Water borne organic inorganic hybrids from vegetable oil: synthesis and characterization"
   - "Biobased polymer and composite for green environment: synthesis and characterization"
8. International Conference on Chemistry: Frontiers and Challenges, organized by and held at the Dept of Chemistry, Aligarh Muslim University, Aligarh, U.P., on March 5-6, 2011
   - "Microwave processed biohybrids: synthesis and characterization"
   - "Drying and non drying oil based polyurethanamide via Green Chemistry"
9. International conference (World CORCON-2011) at Mumbai, India on 29th Sep-1st Oct, 2011.
   - "Corrosion protective performance of nanoFe_3O_4 dispersed soya alkyd based nanocomposite"
   - "Effect of nano ZnO particles on the anticorrosive properties of Bisphenol Formaldehyde waterborne alkyd"

2010

10. POLYCHAR 18, World Forum on Advanced Materials, organized by Siegen University, Siegen, Germany 7^{th} -10^{th} , April 2010.
    "Microwave Assisted Pongamia Pinnate Oil Based Waterborne-Hyperbranched Polymer-A"Green"Material"
    - "Organic-Inorganic Hybrid Materials En Route Green Chemistry"
    - "Novel biobased nanostructured corrosion protective coating materials"
11. Green Technology for Green Environment, organized by Department of Chemistry, Chaoudhary Charan Singh University, Meerut, U.P., 27^{th} -30^{th} January 2010.
    - "Development of Waterborne hyperbranched polyesteramide: a green polymer"
    - "Green nanocomposite coating material for green environment"
12. Second International Conference on Polymer Processing and characterization, organized by Mahatma Gandhi University, Athirampuzha, Kottayam Kerala, India, 15-17 January, 2010.
    "Processing, Synthesis and Characterization of Blends of Castor Oil Epoxy with Poly (vinyl alcohol)"

2009

13. APA International Conference on Advances in Polymer Science and Technology, Organized by Indian Institute of Technology, New Delhi, India, 17-20 December, 2009.
    - "Synthesis and Characterization of Waterborne Linseed Oil Polyesteramide"

- "Organic-inorganic hybrid materials en route green chemistry: synthesis and characterization"
- "Polyol from linseed oil for waterborne coatings: synthesis and characterization"

14. The 6th International Conference on Hands-on Science (HSCI 2009) Science for All : Quest for Excellence, October 27-31, 2009, Science City, Ahmedabad – 380360 (Gujarat) India
    "Ta.ing our green gold - seed oils : an insight"
15. CORCON 2009, International Conference on Corrosion, Mumbai, India, 29th, 30th September & 1st October, 2009.
    - "Corrosion Protective Coatings based on Poly (urethane - fatty amide) - A sustainable Resource"
    - "Development of Microwave Synthesized Eco-Friendly Polymeric Coating Material"
    - "Corrosion resistant acrylate modified poly(urethane-fattyamide) coatings:A sustainable resource"
    - "DGEBA Epoxy/Polyol/SiO_2 Composites as Coating Materials"
    - "Sustainable resource based organic-inorganic hybrid corrosion protective coating materials" **"BEST PAPER AWARD"**
16. POLYCHAR 17, World Forum on Advanced Materials, organized by Rouen University, France, 20th -24th April 2009.
    "Studies on boron containing poly (urethane- fatty amide)"
17. India-Japan Workshop on Biomolecular Electronics & Organic Nanotechnology for Environment Preservation (IJWBME) December 17-20, 2009, at National Physical Laboratory, New Delhi-110012.
    "Single/Multi walled Carbon Nanotubes-Chitosan Nanobiocomposite for Immunosensor Application"
18. Fifth International Conference on Molecular Electronics & Bioelectronics (M&BE5 http://www.mbe5.org/), held during 15-18 March 2009 at Phoenix Seagaia Resort, Miyazaki, Japan.
    "Nanostructured Fe_3O_4 Film based Impedimetric Cholesterol Biosensor"
19. Second International Conference on Frontiers in Nanoscience and Technology-Cochin Nano -2009, Cochin, Jan 3-6, 2009.
    "Chitosan Su.orted Iron Oxide Nanobiocomposite Based Immunosensor for Ochratoxin-A Detection"

2008

20. International conference "Polychar-16 World Forum on Advanced Materials" organized by and held at the University of Lucknow, Lucknow, India on Feb. 17-21, 2008
    "Synthesis and characterization of boron incorporated polyester polyol from linseed oil"
21. Polymer-Changing Frontiers, POLYMCON '09, organized by National Institute of Technology, Calicut, Kerala,India.
    - "Divalent metal containing self cured polymer from renewable resource"
22. Indo-US Workshop for science and technology at Nano-Biointerface, Feb, 19-22, 2008 at Bhubneswar, India.
    - "Iron oxide nanoparticle/Chitosan composite for application to glucose biosensor"
23. APA International Conference on Advances in Polymer Science and Technology, Organized by Indian Institute of Technology, New Delhi, India, 28th-31st January, 2008

- "Boron Modified Castor Polyurethane Corrosion Protective Coatings"
- "Development of characterization of Zn-incorporated poly(esteramide-urethane) from renewable resource"

2007

24. CORCON 2007, International Conference on Corrosion, Mumbai, India, 26th –28th September, 2007.

- "Corrosion Protective poly (urethane Amide) Coating from Pongamia glabra seed oil – a renewable resource"
- "Development of anticorrosive and antimicrobial coatings of Cd and Zn-incorporated linseed polyesteramide
- "Corrosion Protective performance of polyaniline ferrite dispersed alkyd coatings" - BEST POSTER AWARD

25. International Conference on Emerging Trends in Chemical Sciences [ICETCS 2007] organized by Department of Chemistry, University of Mumbai, Vidyanagari, Santacruz (East), Mumbai, India, 23rd –25th January 2007.
"Zinc Incorporated polyesteramide from karanj seed oil"
26. International Conference on Advanced Materials & Composites (ICAMC-2007) held on 20-22 Oct, Trivandrum.
"High performance nanostructured Polyaniline dispersed corrosion resistant polyurethane coatings"

2005

27. CORCON 2005, International Conference on Corrosion, Chennai, India, 28th –30th November 2005. "Alumina Incorporated Polyesteramide Coating Materials from Non-Edible Seed Oil

2004

28. CORCON 2004, International Conference on Corrosion, New Delhi, 2nd-4th December 2004, "Development of Corrosion Protective Zinc Incorporated polyester amide Coating Material from A Sustainable Resource"

30. LIST OF PUBLISHED PAPERS

2019

218. Influence of medium on structure, morphology and electrochemical properties of polydiphenylamine/vanadium pentoxide composite, Halima Khatoon, Sajid Iqbal, **Sharif Ahmad,** SN Appl. Sci. (2019) 1: 261. Doi:10.1007/s42452-019-0285-y

217. Barium ferrite nanoparticles: a highly effective EMI shielding material, Sajid Iqbal, Garima Kotnala, Jyoti Shah and **Sharif Ahmad**, Materials Research Express, (2019), 6, 055018, DOI: 10.1088/2053-1591/ab02a4.

216. Highly efficient low cost EMI shielding by barium ferrite encapsulated polythiophene nanocomposite, Sajid Iqbal, Jyoti Shah, RK Kotnala, **Sharif Ahmad,** Journal of Alloys and Compounds, (2019), 779, 487-496, DOI: 10.1016/j.jallcom.2018.11.307. (I.F. 3.779)

215. Oleo-polyurethane-carbon nanocomposites: Effects of in-situ polymerization and sustainable precursor on structure, mechanical, thermal, and antimicrobial surface-activity, Younes Ahmadi, Mithilesh Yadav, **Sharif Ahmad,** Composites Part B: Engineering, (2019), 164, 683-692. DOI: 10.1016/j.compositesb.2019.01.078. (I.F. 4.92)

214. Waterborne-Reduced Graphene Oxide Dispersed Bio-Polyester amide Nanocomposites: An Approach towards Eco-Friendly Anticorrosive coatings, Mohd Irfan, Shahidul Islam Bhat, **Sharif Ahmad,** New Journal of Chemistry, (2019), DOI: 10.1039/C8NJ03383H. (I.F. 3.201)

213. Surface-active antimicrobial and anticorrosive Oleo-Polyurethane/graphene oxide nanocomposite coatings: Synergistic effects of in-situ polymerization and π-π interaction, Younes Ahmadi and **Sharif Ahmad,** Progress in Organic Coatings, (2019), 127, 168-180. (I.F. 2.955)

2018

212. Na-Montmorillonite-Dispersed Sustainable Polymer Nanocomposite Hydrogel Films for Anticancer Drug Delivery, Rabia Kouser, Arti Vashist, Md. Zafaryab, Moshahid A. Rizvi, and **Sharif Ahmad**, ACS Omega (2018), 3, 11, 15809-15820.

211. pH Responsive Biocompatible Nanocomposite Hydrogels for Therapeutic Drug Delivery, Rabia Kouser, Arti Vashist, Mohammad Zafaryab, Moshahid A Rizvi, and **Sharif Ahmad,** ACS Appl. Bio Mater., (2018) DOI: 10.1021/acsabm.8b0026.

210. Graphene oxide dispersed polyvinyl chloride/alkyd green nanocomposite film: Processing and physico-mechanical properties Mithilesh Yadav, **Sharif Ahmad**, and Fang-Chyou Chiu, Journal of Industrial and Engineering Chemistry, (2018), 68, 246-256. I.F. 4.84

209**.** Reduced Graphene Oxide Reinforced Waterborne Soy Alkyd Nanocomposites: Formulation, Characterization, and Corrosion Inhibition Analysis, Mohd Irfan, Shahidul Islam Bhat, and **Sharif Ahmad,** ACS Sustainable Chem. Eng., (2018), 6, 14820-14830. I.F.: 6.14

208. Polyurethane: A Versatile Scaffold for Biomedical Applications, Halima Khatoon, **Sharif Ahmad**, 2018, Crimsom Publisher, (2018), 2, 1-3.

207. Influence of boron incorporation on poly(phenyldiammine) nanostructures: Novel, well-defined and highly conducting nanospheres dispersed smart corrosion protective epoxy coatings, Neha Kanwar Rawat, **Sharif Ahmad**, P. K. Panda, Composites Communications, (2018), 9, 81. (I. F.: 0.946)

206. Recent Advances in Structural Modifications of Hyperbranched Polymers and Their Applications, Shahidul Islam Bhat, Younes Ahmadi, **Sharif Ahmad**, Industrial & Engineering Chemistry Research, (2018), 57 (32), 10754–10785. (I. F.: 2.83)

205. Synthesis and characterisation of poly (methylmethacrylate) - Silica composites, Hasan Abbas, Sajid Iqbal, **Sharif Ahmad** and Najmul Arfin, Materials Research Express, (2018), 5, 085312. (I. F.: 1.15)

204. Synthesis and characterization of surface-active antimicrobial hyperbranched polyurethane coatings based on oleo-ethers of boric acid, Younes Ahmadi, Mohammad Tahir Siddiqui, Qazi Mohd. Rizwanul Haq, **Sharif Ahmad**, Arabian Journal of Chemistry, (2018), DOI: 10.1016/j.arabjc.2018.07.001. (I. F.: 2.969)

203. Castor Oil-TiO_2 Hyperbranched Poly (ester amide) Nanocomposite: A Sustainable, Green Precursor Based Anticorrosive Nanocomposite Coatings. Shahidul Islam Bhat, **Sharif Ahmad**, Progress in Organic Coatings, (2018), 123, 326-336. (I. F.: 2.955)

202. Green and sustainable anticorrosive coating derived from waterborne linseed alkyd using organic-inorganic hybrid cross linker, Shabnam Pathan, **Sharif Ahmad**, Progress in Organic Coatings, (2018), 122, 189. (I. F.: 2.955)

201. Advances in carbon nanotubes-Hydrogel hybrids in nanomedicine for therapeutics, Arti Vashist, Ajeet Kaushik, Atul vashist, Vidya Sagar, Anujit Ghosal, Y.K.Gupta, **Sharif Ahmad** and Madhavan Nair. Advanced Healthcare Materials, (2018), 7, 1701213

200. Lignin nanoparticles: Synthesis, characterization and their corrosion protection Performance. Obaid ur Rahman, Shubin Shi, Jiheng Ding, Wang Donglin, **Sharif Ahmad** and Haibin Yu, New Journal of Chemistry, 2018, 42, 3415-3425 DOI: 10.1039/C7NJ04103A
I.F.:3.269.

199. Biocompatible and mechanically robust nanocomposite hydrogels for potential applications in tissue engineering, Rabia Kouser, Arti Vashista, Md. Zafaryab, Moshahid. A. Rizvi, **Sharif Ahmad**, Materials Science and Engineering: C (2018), 84, 168-179. I.F.: 5.08

198. Synergistic effect of nanosize and irradiation on epoxy/conducting poly(o-phenyldiamine) nanospheres composite coatings: Synthesis, characterization and corrosion protective performance. Neha Kanwar Rawat, **Sharif Ahmad**, Materials Chemistry Physics, (2018), 204, 282-293. I.F.: 2.084

197. Recent Development in Hybrid Conducting Polymers: Synthesis, Applications and Future Prospects, S Iqbal, **S Ahmad**, Journal of Industrial and Engineering Chemistry, (2017), 60, 53-84. DOI: 10.1016/j.jiec.2017.09.038. I.F. 4.48

2017

196. Hyperbranched Soya Alkyd Nanocomposite: A Sustainable feedstock based Anticorrosive nanocomposite Coatings, OU Rahman, SI Bhat, H Yu, **S Ahmad**, ACS Sustainable Chemistry & Engineering, (2017), 5, (11), 9725-9734. I.F.: 6.14.

195. Comparative studies of the rheological behaviour of oil epoxy and oil polyesteramide blends with polymethacrylic acid, U Riaz, SM Ashraf, **S Ahmad**, HO Sharma, Arabian Journal of Chemistry, (2017), 10, S1814-S1820. I.F. 4.55

194. High performance anti-corrosive epoxy–titania hybrid nanocomposite coatings, Anujit Ghosal, and **Sharif Ahmad**, New Journal of Chemistry, (2017), 41, 4599-4610. I.F.: 3.269

193. A review on conducting polymer reinforced polyurethane composites. Halima Khatoon and **Sharif Ahmad**. Journal of Industrial and Engineering Chemistry, (2017), 53, 1-22. I. F.: 4.48.

192. Castor and Linseed oil polyurethane/TEOS hybrids as protective coatings: A Synergistic Approach Utilising Plant Oil Polyols, A Sustainable Resource. Deewan Akram, Othman Hakami, Eram Sharmin, **Sharif Ahmad**. Progress in Organic Coatings, (2017), 108, 1-14. I. F.: 2.95.

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30. Additional Information

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