




Bhaskaracharya College of Applied Sciences (University of Delhi)

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Designation		Professor				
Department		Polymer Science				
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Educational Qualification		Subject		Institution		
Ph.D.		Polymer Science		IIT Delhi		
M.E.		Polymer Technology		DCE, University of Delhi		
Research Interests/Specialization						
<ul style="list-style-type: none">• Composite Nanofibres & Nanostructures• Green Polymers• Miniemulsion Polymerization• RAFT Polymerization• Nanoencapsulation						
Teaching Interest						

- Polymer Technology
- Polymer Physics
- Fibre Science
- Speciality Polymers

Publications (Last 8 Years)

Year of Publication	Title	Journal	Other Co-author/s
2021	<i>Synthesis of Silver nanoprism for selective and sensitive colorimetric detection of Hg⁺² ions (Accepted)</i>	Journal of Nanoscience and Nanotechnology (American Scientific Publishers)	Avneesh Mittal, Komal Gupta, Balaram Pani, Gulshan Kumar, Gopala Ram Bhadu, Sachin Kumar Godara, Ratyakshi Nain
2020	<i>A Facile Chemical Approach to Isolate Cellulose Nanofibers From Jute Fibers</i>	Journal of Polymers and the Environment (Springer Publications)	Sanju Kumari, Ritesh Kumar, Bhuvneshwar Rai, Rakesh Kumar, and Gulshan Kumar
2020	<i>Study on the modification of polyester resin bamboo fiber-based composite with euphorbia coagulum and their effect on mechanical and thermal properties</i>	Journal of Composite Materials (Sage Publication)	Sanju Kumari, Ritesh Kumar, Bhuvneshwar Rai, and Gulshan Kumar
2019	<i>Effect of Nanoparticles Shape on Conductivity of Ag nanoparticle PVA composite films</i>	Polymer International (Wiley Publication)	Avneesh Mittal, Ratyakshi Nain, Nishant Jain , Ravinder Singh , Saiyam Dobhal , Balaram Pani , Dambarudhar Parida
2019	<i>A simple approach for the isolation of cellulose nanofibers from banana fibers and characterization, Material Research Express</i>	Material Research Express (IOP Science Publication)	Ritesh Kumar, Sanju Kumari, Shivani Singh Surah, Bhuvneshwar Rai, Rakesh Kumar
2019	<i>Tuning the electronic band alignment properties of TiO₂ nanotubes by boron doping</i>	Results in Physics (Elsevier Publication)	Shivani Singh Surah , Manoj Vishwakarma Ritesh Kumar , Ratyakshi Nain
2018	<i>Ag Decorated Silica Nanostructures for Surface Plasmon Enhanced Photocatalysis</i>	RSC Advances (Royal Society of Chemistry Publication)	Ratyakshi Nain, Saiyam Dobhal, Parth Bidaliya, Gajender Saini, Balaram Pani
2018	<i>Surfactant-free Nanoencapsulation using Reactive Oligomers obtained by RAFT Polymerization of Styrene and Maleic</i>	Applied Nanoscience (Springer Publication)	Manjeet Jassal, Ashwini K. Agrawal

	Anhydride		
2018	<i>Friendly Synthesis of PET based Polymeric Plasticizer and its Application in Nitrile-PVC Rubber Blends</i>	Indian Chemical Engineers (Tylor & Francis Publication)	Saiyam Dobhal, Manav Doshi, Ratyakshi Nain, Krishna Dutt, Balaram Pani
2018	<i>Antimicrobial Activity of TiO₂ Nanostructures Synthesized by Hydrothermal Method</i>	American Institute of Physics (Conference Proceedings)	Shivani Singh Surah, Ratyakshi Nain, and Gulshan Kumar
2017	<i>Facile Preparation of Biodegradable Polyester Films with Printability</i>	ChemistrySelect (Wiley Publication)	Nishant Jain, Ravinder Singh, Gulshan Kumar, Balaram Pani, Ratyakshi Nain, Krishna Dutt, Pradeep Kumar Muwal
2017	<i>Synthesis and Characterization of Multifunctional ZnO/Polyester Green Composite Films</i>	Journal of Polymer Research (Springer Publication)	Ravinder Singh, Nishant Jain, Balaram Pani, Krishna Dutt, Ratyakshi Nain
2017	<i>Facile Synthesis of Microporous SiO₂/Blue Ag Composite Nanostructures for Photocatalysis</i>	Applied Nanoscience (Springer Publication)	Anandpreet Singh, Chakit Dagar, Gajender Saini, Balaram Pani, Ratyakshi Nain
2017	<i>Indian Polymer Packaging Industry</i>	Laghu Udyog Samachar (A Monthly Journal for Micro, Small &Medium Enterprises, Govt. of India)	Nishant Jain, Balaram Pani
2017	<i>Polymers in Biomedical Applications</i>	Laghu Udyog Samachar (A Monthly Journal for Micro, Small &Medium Enterprises, Govt. of India)	Astha Gangwar, Avneesh Mittal, Ratyakshi Nain
2016	<i>Synthesis of a Novel Microbial Consortium Useful in Treatment of Synthetic Polymers and Municipal Solid Wastes and its Effect on Plant Growth and Environmental Engineering</i>	Int. Journal of Multidisciplinary and Current Research	Vijya Kumar Nalla, Siddharth Srivastava, Deepika Khanduri, A K Sen Gupta, T Sridevi
2015	<i>Electrospun Composite Nanofibres of PVA Loaded with Nano-encapsulated n-Octadecane</i>	RSC advances (Royal Society of Chemistry Publication)	Dhirendra Singh, Ratyakshi Nain, Dambarudhar Parida,

			Ashwini K. Agrawal and Manjeet Jassal,
2013	<i>Effect of Seasonal Variation on Metal Speciation in Leachate from a Thermal Power Plant Ash Pond: Impact on Ground Waters</i>	International Journal of Engineering Sciences & Research Technology	Balaram Pani, Manjeet Singh Barwa
2013	<i>Studies on the Effects of Various Flame Retardants on Polypropylene</i>	American Journal of Polymer Science	Balaram Pani, Dharendra Singh
Books/Book chapters			
2016	<i>Synthesis of Well Dispersed ZnO NPs for Nanofinishing Textiles and Biomedical Applications (Book chapter)</i>	Book Title: Nanostructured Polymeric Materials and Polymer Nanocomposites. (Apple Academic Press USA)	Ratyakshi Nain, Krishna Dutt, Dr.Balaram Pani, Nishant Jain, Ravinder Singh, Piyush Wadhwa, Gajendra Saini and Kamlesh Panwar
2017	<i>Writing of short articles chapters/books (Book Chapter)</i>	A book on Higher Education Faculty Career Orientation and Advancement (Published by Centre for Education Growth and Research, Delhi)	Dr.C.S.Verma
Conference Publications			
2020	<i>Chitosan functionalized mesoporous silica nanoparticles for drug delivery applications</i>	International Online Conference on Blends, Composites, Bio-Composites and Nanocomposites (ICNC-2020)	Saiyam Dobhal, Balaram Pani,, Ratyakshi Nain
2019	<i>Effect of Shape of Ag Nanoparticles on Photocatalytic Behavior of Hybrid Ag/SiO2 Composite Nanostructures</i>	India International Science Festival (5-8 November 2019) at Kolkata- International Conference	Sidharth Sirohi, Saiyam Dobhal, Balaram Pani,, Ratyakshi Nain,
2019	<i>Surface Plasmon mediated degradation of methylene blue using Ag decorated silica nanoparticles</i>	International Conference on Advances In Polymeric Materials & Human Healthcare 16-18 Oct. 2019 at Goa	Saiyam Dobhal, Balaram Pani,, Ratyakshi Nain,

2018	<i>Eco-friendly Printable Polyester Films</i>	7th National Symposium on Advances in Chemical Sciences(Guru Nanak Dev University, Amritsar)	Saiyam Dobhal, Parth Bidaliya, Nishant Jain, Ravinder Singh, Balaram Pani, Ratyakshi Nain, Krishna Dutt
2017	<i>Surface Functionalized Mesoporous Silica for Biomedical Applications,</i>	International Conferences on Advances in Polymer Science and Technology organized by IIT Delhi (23-25 Nov. 2017) at Delhi (APA 2017)	Balaram Pani, Saiyam Dobhal, Parth Bidaliya, Ratyakshi Nain
2017	<i>Synthesis and Characterization of Green Polyester Films</i>	International Conferences on Polymer Science and Technology organized by Society of Polymer Science (8-11 Jan. 2017) at Trivandrum (Kerala) (MACRO 2017)	Krishna Dutta, Ratyakshi Nain, Naveen Yadav, Parth Bidaliya, Vinyak, Surbhi Singh, Ashwini K. Agrawal
2017	<i>ZnO/Polyester Composite Films with Antimicrobial Properties</i>	Asian of Polymer Association 2016 (APA-2016)	Ratyakshi Nain, Krishna Dutt, Gulshan Dhamija, Ashwini K. Agrawal, Ravinder Singh, Piyush Wadhwa
2016	<i>Studies on Biodegradability of Thermosetting Polyester Film of Lactic Acid, Maleic Anhydride and Ethylene Glycol</i>	V th National Symposium at Gurunanak Dev University Amritsar- held on 2-3 Feb., 2016	Krishna Dutt, Ratyakshi Nain, Ashwini K. Agrawal, Naveen Yadav, Astha Gangwar, Shoaib Khan, Sabita Yadav
2016	<i>Synthesis and Characterization of Printable Thermosetting Polyester Films</i>	One day seminar on Polymer Modification, Processing and Characterization at Bhaskaracharya College of	Krishna Dutt, Ratyakshi Nain, Ashwini K. Agrawal, Naveen Yadav, Astha Gangwar and Shoaib

		Applied Sciences held on January 25, 2016	Khan
2015	<i>Synthesis of Well Dispersed ZnO Nanoparticles for Nanofinishing Textiles and Biomedical Applications</i>	International conference on Nanostructured Polymeric Materials and Polymer Nanocomposites (ICNPM 2015 at Mahatma Gandhi University, Kottayam (Kerala),) held on 13, 14 and 15 November India-(International Conference)	Ratyakshi Nain, Krishna Dutt, Nishant Jain, Ravinder Singh, Piyush Wadhwa, Gajendra Saini and Kamlesh Panwar
2013	<i>PVAc Nanofibres with Nanocapsules of PCM obtained via. RAFT Miniemulsion Polymerization</i>	International conference on Polymers on the frontiers of Science and Technology (APA 2013), February, 21-23, 2013 Panjab University, Chandigarh, India.	Manjeet Jassal, Ashwini K. Agrawal, Dharendra Singh and G. Saini
2012	<i>PVA Nanofibres with Nanocapsules of PCM obtained via. RAFT Miniemulsion Polymerization</i>	41 st Textile Research Symposium 2012 (TRS-2012)(12-14, Sep.2012) at Guimaraes (Portugal) (International Conference)	Manjeet Jassal, Ashwini K. Agrawal
2012	<i>Synthesis and Characterization of Polymeric Surfactants Via RAFT Miniemulsion Polymerization</i>	International Congress on Advances in Human Healthcare Systems "Health Care India 2012", (under Asian Polymer Association) (20-24 Feb.2012) - at Delhi-(International Conference)	Manjeet Jassal, Ashwini K. Agrawal
2011	<i>Synthesis and Characterization of Polymeric Surfactants via RAFT Polymerization</i>	Golden Jubilee Young Researcher's Symposium on Emerging Trends in Textile / Fiber Research & Applications (11-12 March 2011) at IIT, Delhi-2011	Manjeet Jassal, Ashwini K. Agrawal, Synthesis and Characterization of Polymeric Surfactants via RAFT Polymerization
2010	<i>Synthesis and Characterization of Octadecane Nanocapsules via RAFT Miniemulsion Polymerization</i>	International Conference on Frontiers of Polymers and Advanced Materials MACRO-2010 (15-17 December2010) organized	Manjeet Jassal, Ashwini K. Agrawal

by IIT Delhi

Project (Minor/Major)

- Innovation Project titled ***“Development of Novel Eco-Friendly Printable Packaging Films for Industrial Applications”*** (BCAS-303) awarded by University of Delhi of worth 5 Lakhs (2015-16, completed)
- Innovation Project titled ***“Screening and Enrichment of Polymer degrading micro-organisms and their application in Environmental Engineering”*** (BCAS-204) awarded by University of Delhi of worth 5 Lakhs (2013-14, completed)

Any other information

Research Guidance

- **Ph.D Supervision:** 01 Completed, 01 (Under Progress)

Association with Professional Bodies

- **Life Member:** Asian Polymer Association (APA)
- **Life Member:** The Society of Polymer (India)
- **Annual Membership :** American Chemical Society(ACS Division of Polymer Chemistry - Poly Division-)