




Bhaskaracharya College of Applied Sciences (University of Delhi)

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Designation		Assistant Professor				
Department		Polymer Science				
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Email Id		siddharth.sirohi@bcas.du.ac.in				
Educational Qualification		Subject			Institution	
Ph.D.		Nanoencapsulation of PCM using RAFT Miniemulsion Polymerization			IIT Delhi	
M.Phil.		Chemistry			Madurai Kamraj University	
M. Tech.		Polymer Technology			Delhi College of Engineering (now Delhi Technological University)	
Research Interests/Specialization						
<ul style="list-style-type: none">• RAFT Polymerization• Nanoencapsulation• Miniemulsion Polymerization• Composite Nanofibres& Nanostructures• Green Polymers						
Teaching Interest ;,						

- Polymer Technology
- Polymer Physics
- Fibre Science

Publications (Last Five Years)

Year of Publication	Title	Journal	Co-author/s
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, Balamaram 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, Balamaram 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, Balamaram 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, Balamaram 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, Balamaram Pani
2017	<i>Writing of short articles chapters/books (Book Chapter)</i>	<i>A book on Higher Education Faculty Career Orientation and Advancement</i> (Published by Centre for Education Growth and Research, Delhi)	Dr.C.S.Verma
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 Well Dispersed ZnO NPs for</i>	Book Title: Nanostructured	Ratyakshi Nain, Krishna

	<i>Nanofinishing Textiles and Biomedical Applications</i> (Book chapter)	Polymeric Materials and PolymerNanocomposites. (Apple Academic Press USA)	Dutt, Dr.Balaram Pani, Nishant Jain, Ravinder Singh, Piyush Wadhwa, Gajendra Saini and Kamlesh Panwar
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	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, Dhirendra Singh
Conference Publications			
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 (APA 2017)	Balaram Pani, Saiyam Dobhal, Parth Bidaliya, Ratyakshi Nain
2017	<i>Synthesis and Characterization of Green Polyester Films</i>	<i>International Conferences on Polymer Science and Technology</i> (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 GurunankDev University Amritsar- held on 2-3 Feb., 2016	Krishna Dutt, Ratyakshi Nain, Ashwini K. Agrawal, Naveen Yadav, Astha Gangwar, Shoab 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 Applied Sciences held on January 25, 2016	Krishna Dutt, Ratyakshi Nain, Ashwini K. Agrawal, Naveen Yadav, Astha Gangwar and Shoab 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>	Asian of Polymer Association 2013 (APA-2013) (21-23 Feb. 2013) at 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)	Manjeet Jassal, Ashwini K. Agrawal
2012	<i>Synthesis and Characterization of Polymeric Surfactants Via RAFT Miniemulsion Polymerization</i>	HEALTH CARE-2012 (under Asian Polymer Association Congress) (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 December 2010) organized by IIT Delhi	Manjeet Jassal, Ashwini K. Agrawal
Project (Minor/Major)			
<ul style="list-style-type: none"> • Innovation Project titled <i>"Development of Novel Eco-Friendly Printable Packaging Films for Industrial Applications"</i> (BCAS-303) awarded by University of Delhi worth 5 Lakhs (2015-16, completed) • Innovation Project titled <i>"Screening and Enrichment of Polymer degrading micro-organisms and their application in Environmental Engineering"</i> (BCAS-204) awarded by University of Delhi worth 5 Lakhs (2013-14, completed) 			
Any other information			
<ul style="list-style-type: none"> • Ph.D Supervision: One (ongoing) • B.Tech. Project Supervision: 08(completed) & 01(ongoing) • Life Member: Asian Polymer Association (APA) • Life Member: The Society of Polymer (India) 			