




Bhaskaracharya College of Applied Sciences (University of Delhi)

Sector II, Phase I, Dwarka, New Delhi – 110075

FACULTY PROFILE

Title	Dr.	First Name	Susmita Dey	Last Name	Sadhu	Photograph
Designation	Assistant Professor					
Department	Polymer Science					
Address (College)	Bhaskaracharya College of Applied Sciences, Sector-2, Phase-I, Dwarka-110075					
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Email Id	susmitadey.sadhu@bcas.du.ac.in					
Educational Qualification	Subject			Institution		
Ph.D	Rubber Technology			IIT Kharagpur		
M.Sc.	Chemistry			Burdwan University		
Research Interest/ Specialization						
<ul style="list-style-type: none"> • Rubber Technology • Polymer Nano-composites • Polymers in Packaging and waste management 						
Teaching Interest						

Polymer Recycling, Rubber Technology, Latex Technology			
Achievements/Patents			
Received Best Paper Award Honorable Mention for Original Contribution for the paper entitled “Acrylonitrile Butadiene Rubber Based Nano-composites: Preparation & Mechanical Properties” from American Chemical Society, Rubber Division, U.S.A., in 2003			
Publications (Last Five Years)			
Year of Publication	Title	Journal	Co-author/s
2016	Soy-Oat Yoghurt: Preparation and its Quality Evaluation	national conference advances in food science and technology (NCAFST2016)2016.March 16-17	Garg.M,Wason, S.. Akansha, Manjoor
2016, vol 2,issue 3,pg 160-170	Advancement in conventional Packaging-Edible Packaging	World Journal of Pharmaceutical and Life Sciences	Kaur, P; Garg,M; Aditi
2016, pg 1-5	Thermal Studies of the Starch and Polyvinyl Alcohol based Film and its Nano Composites	Journal of Nanomedicine & Nanotechnology	Anshuman Soni and Meenakshi Garg
2016, Vol. 2, Issue 3, 160-170, 2454-2229	Advancement in conventional packaging – edible packaging	World Journal of Pharmaceutical and Life Sciences	Sabharwal P K, Garg M, Aditi
2016, 2157-7439	Thermal Studies of the Starch and Polyvinyl Alcohol based Film and its Nano Composites	Journal of Nanomed Nanotechnol	Soni A and Garg M
2015, 3(10), 505 – 510, 2320-5407	Preparation and Thermal and Morphological Characterization of Nanocomposite Based on Phenol Formaldehyde – Nylon Thermoset IPN	International Journal of Advanced Research	Garg M
2015, 1(7), 1-15, 2395-3470	Evaluation of Mathematical models to describe thin layer drying and to determine drying rate of potato peels using tray drying	International Journal of Scientific Engineering and Applied Science	Garg M, Sabharwal P K, Sharma S, Varmani S G
2014, 2(17), 64-78, 2320-0782	Beta-Thalassemia major and Osteoporosis: Etiology, Pathogenesis, Diagnosis and Management	International Journal of Pharmacy and Integrated Life Sciences	Varmani S G, Panda H, Garg M
2014, 2(17), 47-63, 2320-0782	Iron Overload and Chelation Therapy in Beta- Thalassaemia (major)	International Journal of Pharmacy and Integrated Life Sciences	Varmani S G, Arora H, Garg M
2014, 3(4), 01-05, 2319-6734	Review: Polymers in Energy Harvesting	International Journal of Engineering Science Invention	Chakraborty S, Garg M and Varmani S G

2014, 3(3), 33-37, 2319-6718	Preparation of starch- polyvinyl Alcohol (PVA) Blend Using Potato and study of Its Mechanical Properties	International Journal of Pharmaceutical Invention	Soni A, Varmani S G and Garg M
2014, 3(3), 127, 2320-7876	Review Paper: Diabetes Mellitus in β -Thalassaemia Major- Pathogenesis and Management Strategies	International Journal of Food and Nutritional Sciences	Varmani S G, Mehta K, Garg M
2014, 3(3), 61, 2320-7876	Drying Kinetics of Thin Layer Pea Pods using Tray Drying	International Journal of Food and Nutritional Sciences	Garg M, Sharma S, Varmani S G
2013, 33(6), 489, 0334-6447	Mechanical and thermal properties of impact modified PBT blends and impact modified PBT Nanocomposites	Journal of Polymer Engineering	Sharma R, Jain P, Kaur B
Conference Publications			
2015	Thermal Studies of the polyvinyl alcohol-starch nanocomposite	Conference on Advancements in Polymer Science & Technology held on Oct. 29-31, 2015 at Saurashtra University, Rajkot, India.	-
2014	Gelatin-Wax Based emulsion for coating of Processed Food Products	International Conference on Polymeric Biomaterials, Bioengineering & Biodiagnostics held on October 27-30, 2014, New Delhi.	-
2014	Study of Mechanical Properties of Starch-Poly Vinyl Alcohol Blend Based Nanocomposites for Food Packaging	Asian Polymer Association (APA) International Conference on 20-21st February 2014, India Habitat Centre, New Delhi	A. Soni, Meenakshi Garg and Shivani G. Varmani
2014	Bio-Polymer: A solution to Environmental Hazard	International Conference on Polymers and Allied Materials(ICPAM-2014), Department of Materials Science and Engineering, IIT Patna, pp 293	Raj R, Garg M and Varmani S G
2014	Atomic Force Microscopy for characterization of polymers	International Conference on Polymers and Allied Materials(ICPAM-2014), Department of Materials Science and Engineering, IIT Patna , pp. 245	Kushagra Malik, Meenakshi Garg and Shivani G Varmani

Project (Minor/Major)

- DU Innovation project titled “Development of an intelligent, eco-friendly multilayer package and nutritious snack from fruit and vegetable seeds and peels” (BCAS-302) for the year 2015-16.
- DU Innovation project titled “To prepare edible packaged, low cost healthy snack from fruit and vegetable waste and study its effect in healthy respondents” (BCAS-205) for the year 2013-14.
- DU Innovation project titled “Development of Cost-Effective Nutritious Multi Cereal Bar and its Sustainable Packaging using Nano-Biopolymer” (BCAS-103) for the year 2012-13.

Any other information

Patent Filed:

- INDIA –Patent Application No. 471/DEL/2013, Dated –February 19, 2013 entitled “NUTRITIONAL COMPOSITIONS AND METHODS FOR MANUFACTURING THE SAME”.
- INDIA –Patent Application No. 473/DEL/2013, Dated –February 19, 2013 entitled “COATING COMPOSITIONS AND METHODS FOR PREPARATION THEREOF”

Book Chapter:

- Madhuchhanda Maiti, Susmita Sadhu and Anil K. Bhowmick, Contributed a chapter titled Elastomer-Clay Nanocomposites in “Current Topics in Elastomer Research by A.K. Bhowmick, Taylor and Francis Group, CRC Press; 2008.ISBN-13;978-0-8493-7317-6

Conferences:

- Organizer of National Workshop on “Intellectual Property Rights: Culmination of Research” held at BCAS, on 23-24th Sept 2016.
- Coordinator of One day seminar on “Career Prospects in Polymer Industries” held at BCAS on 12 Aug 2016.
- Organizer of one day Workshop “Software Training Programme” held at BCAS on 29th July 2016.
- Coordinator and organizer of the National Seminar on “Advancement in Packaging, Food and Social Impact” held at BCAS, on 3rd Nov 2014.
- Coordinator and Organizer of the National Seminar on “Innovation in Polymers Towards Sustainability and Growth” held at BCAS on 2-3rd March 2012.
- Coordinator and Organizer of the National Seminar on “Recent Development in Polymers” at BCAS on 29th Oct 2009.

Resource Person:

- Participated as Resource Person in the WEF-2015, Workshop on Edible packaging, held at BCAS, New Delhi on Jan. 28, 2015.