

Profile Page



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Research Interests :

Textile Chemical Processing
Reduction in Waste water load in Textile industries
Enzymatic chemical processing
Colouration and finishing of textiles
Functional Aroma finishing of textiles

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Journal Publications :

Year	Journal	Publication
2022	Asian Textile Journal, March-April, 2022, 31-41	J N Chakraborty, Anchal and Ankush Kamboj, Integration of wearable triboelectric nanogenerators with textiles
2022	Asian Dyer, 19(3), June-July 2022, 27-33.	J N Chakraborty and Ankush Kamboj, Self-powered thermal regulation textiles
2022	Research Journal of Textile and Apparel, online published during February 2022	Aakanksha Singh and J N Chakraborty, Multifunctional finishing of cotton using zinc oxide and silicon dioxide nanoparticles along with DMDHEU
2022	Fibers and Polymers 2022, Vol.23, No.4, 993-1007	Amit Madhu and J N Chakraborty, Sustainable Approach for Cotton Fabric Pretreatment with Immobilized Enzymes
2022	Asian Technical Textiles, Accepted for publication in July-September issue	J N Chakraborty, Karvi Gupta and Shekhar Kr, Biomimetics in Textiles

2021	Asian Textile Journal, 30, 9.,September, 2021, 39-47.	J N Chakraborty and Bhavesh Thakur, Chemistry, synthesis and chemical processing of Polyphenylene sulphide fibres
2021	Asian Dyer, 18(6), December, 2021, 38-47.	J N Chakraborty, Prashant Kr and Vinay Kr Sonkar, Synthesis and Chemical Processing of Polybenzimidazole (PBI) Fibres
2021	Asian Textile Journal, November, 2021, 31-38	J N Chakraborty and Deepak Chaudhary, Synthesis and chemical processing of stainless steel fibre
2021	Indian Journal of Fibre and .Textile Research, 46, March 2021, pp. 91-99	J N Chakraborty and Pranav Mazumdar, Cotton dyeing with indigo using alkaline pectinase and Fe(II) salt
2021	Asian Technical Textiles, January-March, 2021, 33-45.	J N Chakraborty, Anurag Pandey and Deepak Chaudhary, Synthesis and chemical processing of melamine fibres
2021	Asian Dyer, 18(2), April-May, 2021, 25-.34.	J N Chakraborty and Pragya Gupta, Application of ultrasound in textile processing
2021	Asian Textile Journal, 30(4), April, 2021, 24-33	J N Chakraborty and Simran Saxena, Synthesis and chemical processing of ceramic fibres
2021	Research Journal of Textile and Apparel, Vol. 25 No. 1, 2021 pp.75-88	Bharti Rana nad J N Chakraborty, Decolourisation of Reactive Dyes with Laccase-Mediator System
2021	Asian textile Journal, 30, 6.,June, 2021, 28-34	J N Chakraborty and Shalbani Ghosh, Application of Textiles in Marine World
2021	Asian Technical Textiles, July-Sept, 2021, 53-58	Shelly Khanna, Amandeep Kaur and J N Chakraborty, Wearable Bioinstru-mentation: A Pathway to Next Generation Medical Responsive Textiles
2020	Asian Textile Journal, 29 (11), November, 2020, PP 31-40	J N Chakraborty and Deepak Chaudhary, Synthesis and chemical processing of carbon fibre
2020	AATCC Journal of Research, Vol. 7, No. Special Issue On Sustainability 2020, 1-8	J N Chakraborty and Pranav Mazumdar, Indigo dyeing of cotton using alkaline catalase and additives
2020	Asian Textile Journal, Asian Textile Journal April-May 202, pp 53-62	J N Chakraborty and Bharti Rana, Synthesis and chemical processing of high density polyethylene
2020	Asian Textile Journal, 29(4/5), April/May, 2020, pp 37-46	J N Chakraborty, Deepak Chaudhary and Anurag Pandey, Process and quality control in vat dyeing
2020	Asian Textile Journal, 29(12), December, 41-50	J N Chakraborty and Deepshikha, Enzymatic Scouring of Cotton
2020	AATCC Journal of Research, 7 (1), Jan/Feb, 2020, 10-20	Veeresh Mudnoor C and J N Chakraborty, Dyeing of cotton with vat dyes using alkaline pectinase along with iron (II) salt
2020	Asian Textile Journal, February, 2020, 48-56	J N Chakraborty, Pulkita Jindal and Keerti Suthar, Synthesis and colouration of aramid fibres
2020	Indian Journal of Fibre and Textile Research, 45(1), 2020, 109-115	Veeresh Mudnoor C and J N Chakraborty, Dyeing of cotton with vat dyes using alkaline catalase alongwith iron (ii) salt
2020	Fibres and Polymers, 21(5), 2020, 1061-1070	Veeresh Mudnoor C and J N Chakraborty, Dyeing of cotton with vat dyes using alkaline lipase along with iron (II) salt
2020	Asian Textile Journal, 29(3), March, 2020, 50-60	J N Chakraborty and Vijay Vishnoi, Manufacture and chemical processing of glass fibre
2020	Melliand International, 3, 2020, 138-139	J N Chakraborty and Pranav Mazumdar, Indigo dyeing of cotton using alkaline lipase as reduction catalyst
2020	Asian Textile Journal, June/July, 2020- 46-54.	J N Chakraborty and Rimjhim Kumari, Synthesis and chemical treatment of PBO fibres
2020	International Journal for Modern Trends in Science and Technology, 6(9S), 2020, 26-39	Bharti Rana and J N Chakraborty, Laccase Mediator System – A Promising Technology for Decolourisation of Dyes – A Review

2020	Tekstilec, 2020, Vol. 63(4), 305–320	Omender Kr and J N Chakraborty, Eco-Friendly Vat Dyeing on Cotton using Alkaline Iron (II) salt as Reducing Agent
2020	Asian Textile Journal, 29(10), October, 2020, pp 29-43	J N Chakraborty and Vinay Sonkar, Synthesis and Chemical Processing of Fluoropolymers
2020	Asian Textile Journal, 29(8-9), August - September, 2020, pp24-30	J N Chakraborty and Rimjhim Kumari, Synthesis and colouration of polyimide fibres
2019	AATCC Journal of Research, 6(2), 2019, 7-17	Amit Madhu and J N Chakraborty, “Bio-bleaching of cotton with H ₂ O ₂ generated from Native and Immobilized Glucoseoxidase”
2019	Asian Textile Journal, 28(4) 2019, 33-39.	J N Chakraborty, Process and quality control in reactive dyeing of cotton
2019	Asian Technical Textiles, April-May, 2019, 70-74	J N Chakraborty and Itisha Jain, Dyeing of Aramid Textiles
2019	Asian Textile Journal, 28(5), May, 2019, pp 43-48	J N Chakraborty, Rahul Nigam, Anu Girdhar and Mehak Gupta, Sensors enhancing military camouflage
2019	Indian Jr of Fibre and Textile Research, 44, June, 2019, pp. 210-216.	J N Chakraborty and Ashish Kumar, Synthesis, characterization and application of Eco-friendly lavender oil microcapsules on cotton
2019	Asian Textile Journal, June, 2019, pp 63-66	J N Chakraborty and Itisha Jain, Dyeing of Aramid Textiles
2019	Indian Journal of Fibre & Textile Research Vol. 44, December 2019, pp. 450-458	Ananya Chakraborty, Pankaj Deep Kaur and J N Chakraborty, Automation in colouration technology to predict dyeing parameters for desired shade and fastness
2019	Tekstilec, 62(3), 2019, 187-199	Pranav Majumdar and J N Chakraborty, Dyeing of cotton with indigo using alkaline protease and additives
2019	Tekstilec, 62(4), 2019, 278-287	J N Chakraborty and Yashdeep Sharma, Comparative performance of synthesized silica nanoparticles for enhanced hydrophilic properties on cotton
2019	Indian Journal of Fibre and Textile Research, Vol. 44, December 2019, pp. 450-458	Ananya Chakraborty, Pankaj Deep Kaur and J N Chakraborty, Automation in Colouration Technology:Quality Colouration of Cotton with Sulphur Dyes using Full-factorial design and ANN based Cloud Computing
2019	Melliand International, 3, September, 197-198	Veeresh Mudnoor C and J N Chakraborty, Dyeing of cotton with vat dyes using alkaline protease alongwith iron (ii) salt
2019	Asian Textile Journal, 28 (1), January, 59-63	J N Chakraborty, Nikhil Shahi, Abhishek Jagga and Prince Gupta, Motion Sensing Textiles
2019	Asian Textile Journal, 28(2), February, 45-47	J N Chakraborty and Dhananjay Santosh Baghel, Invisible Fabric Technology
2019	Asian Textile Journal, 28(3), March, 33-39	Guneet Dhiman and J N Chakraborty, Soil release finish on Textiles
2019	Asian Textile Journal, 28(3), March, 62-66	J N Chakraborty, Ravi, Shivangi, Vanshika and Vishal, Recipe prediction in textile coloration using artificial neural network and fuzzy logic
2018	Research Journal of Textile & Apparel (RJTA), 22(3), 2018, 271-290	J N Chakraborty, M Mohapatra and Jatin Kr, “Graphene Oxide as Multifunctional finish for textile fabrics”
2018	Textilec, 61(4), 289-297	J N Chakraborty, Apan Goyal, Shreyans Jain and Charu Jindal, "Performance of durable press finish on cotton with modified DMDHEU, Citric acid, BTCA and Maleic acid"
2018	Asian Textile Journal, March, pp 27-31	J N Chakraborty, Shreyans Jain and Charu Jindal, “Textiles in filtration”
2018	Asian Textile Journal, May, pp 53-58	J N Chakraborty, M R Mohapatra and Jatin Kumar, Quality Control in Apparel Sectors"

2018	Asian Textile Journal, 27 (8), August, pp 53-56	J N Chakraborty and Simran Sharma, "Influence of hydrophilic lipophilic balance on activity of surfactants"
2018	Asian Textile Journal, September, 27 (9), pp 76-81	J N Chakraborty, Itisha and Amisha, "Construction and performance of diving suits"
2018	Asian Textile Journal, 27(11), November, pp 43-48	J N Chakraborty, Maniratnam, Prashant and Maninder Singh, "Self-Cleaning textiles"
2018	Asian Technical Textiles, October-December, pp 62-67	J N Chakraborty and Prerna, "Smart textiles based on Fiber optic communication Technology"
2018	Asian Textile Journal, 27(12), December, pp 48-52	J N Chakraborty, Mohit Mittal, Kumar Abhinav Kastya and Gaurav Chaudhary, "Clothing for Extreme Hot and Cold conditions"
2017	Asian Technical Textiles, Volume 11, No. 2, April-June, pp 50-55	J N Chakraborty, Jaskaran Singh, "Textile nanofibers: Manufacture and application"
2017	Asian textile Journal, Vol.26, No.5, May, 2017, pp 64-71	J N Chakraborty, Priyanka Dhaka, Jatin Kumar and Jitesh Kumar Sankhala, "Quality control in textiles: methods and equipment"
2017	AATCC Review, 5, 2017, pp 50-53	Yashdeep Sharma and J N Chakraborty, "Developments in Eco-friendly Pretreatment of Textiles"
2017	Asian Textile Journal, Vol.26, No.6, June, 2017, pp 41-50	J N Chakraborty, M R Mohapatra and Shubham Saha, "Eco-testing of Apparels"
2017	AATCC Journal of Research, DOI:10.14504/ajr.4.5.2, Vol. 4, No. 5, September/October 2017, pp 6-13	J N Chakraborty and Priyadarshi Jaruhar, "Dyeing of Cotton with Sulphur Dyes using Alkaline Enzymes as Alternate Reducing systems"
2017	Fashion and Textiles, (2017) 4:18, October, DOI 10.1186/s40691-017-0104-2, pp 1-18	Guneet Dhiman & J. N. Chakraborty, "Assessment of Durable Press Performance of Cotton finished with Modified DMDHEU and Citric Acid"
2017	Asian Textile Journal, October, 2017, pp 52-63	J N Chakraborty and Jitesh Kumar Sankhala, Textiles in aviation and aerospace
2017	Asian Textile Journal, December 2017, 31-36	J N Chakraborty, Priyanka Kumari Dhaka and Md. Arif, "Synthesis and application of nanocapsules on textiles"
2017	Fashion & Textiles, 5(9), 2018, pp 1-18	Shelly Khanna, and J N Chakraborty, 'Mosquito repellent activity of cotton functionalized with inclusion complexes of β -Cyclodextrin citrate and essential oils"
2017	Research Journal of Textile & Apparel (RJTA), 22(3), 2018, 271-290	Amit Madhu and J N Chakraborty, Recovery and reuse of immobilized α -amylase during desizing of cotton fabric"
2017	Asian Textile Journal, December, 31-36	J N Chakraborty, Priyanka Kumari Dhaka and Md. Arif, "Synthesis and application of nanocapsules on textiles"
2017	Asian Textile Journal, January, 2017, pp39-43	J N Chakraborty and Apan Goyal, "Constructional significance of protective clothings"
2017	Asian Textile Journal, Vol. 26., No. 2, February, 2017, pp 46-50	J N Chakraborty, Jitesh Kumar Sankhala, and Aditi, "Ultrasonic seaming"
2017	Asian Textile Journal, March, 2017, pp 39-44	J N Chakraborty*, Gargi Kulshreshtha and Jagjeevan Kaur, "Effect of radiations on properties of textiles"
2017	Asian Textile Journal, April, 2017, pp 27-35	J N Chakraborty*, Shreyans Jain and Charu Jindal, "Quality control in textiles: significance, perspective and standards"
2017	Fashion & Textiles, 2017, 4:6, March, pp 1-18	Shelly Khanna, and J N Chakraborty, 'Optimization of Monochlorotriazine β -cyclodextrin grafting on cotton and assessment of release behavior of essential oils from functionalized fabric"
2017	Journal of Cleaner Production, 145 (2017), pp 114-133	Amit Madhu and J N Chakraborty, Developments in Application of Enzymes for Textile Processing
2016	Asian Textile Journal, February, 2016, pp 40-43	J N Chakraborty and Himadri Tanaya Mahanta, 'Application of Artificial Neural Network in Colour Matching Algorithm,

2016	Journal of Natural Fibres, 13:4 (2016), pp. 437-450, DOI: 10.1080/15440478.2015.1043686	Amandeep Kaur, J N Chakraborty and Kashyap Dubey 'Functionalisation of wool for felting shrink-resistance'
2016	Asian Textile Journal, November, 2016, pp 66-73	J N Chakraborty, M R Mohapatra and Jatin Kumar, "Unpleasant odour management techniques in apparel sectors
2016	Research Journal of Textile and Apparel, Vol. 21, Issue: 2, pp.86-100,2016	J N Chakraborty*, A V Sethi, Priyanka Dhaka and Md. Arif, "Technology and application of shape memory polymers in textiles
2015	Asian Textile Journal, 40, February (2015) pp 42-48	J N Chakraborty and Yashdeep Sharma, 'Manufacture and application of Carbon fibre reinforced composites'
2015	Journal of Textiles (Hindwai), Volume 2015, Article ID 230879, 1-7	Amandeep Kaur and J N Chakraborty, 'Influence of pH in bromelain treatment on wool for anti-felting and reduced pilling behaviour: An objective assessment approach'
2015	Journal of Textiles (Hindwai), Volume 2015, Article ID 230879, 1-7	Amandeep Kaur and J N Chakraborty, 'Influence of pH in bromelain treatment on wool for anti-felting and reduced pilling behaviour: An objective assessment approach'
2015	Asian Textile Journal, 24(10), October (2015), pp 73-76.	J N Chakraborty and Himadri Tanaya Mahanta, 'Real-time inspection of textile surfaces using sliding windows algorithm
2015	Journal of Cleaner Production, 108 (2015), pp 503-513	Amandeep Kaur and J N Chakraborty, 'Controlled eco-friendly shrink-resist finishing of wool using bromelain'
2015	Fashion & Textiles, 2 (1), October, 2015, 2-19	Shelly Khanna, Swati and J N Chakraborty, 'Performance assessment of Fragrance finished cotton with cyclodextrin assisted anchoring hosts
2015	Asian Textile Journal, ISSN: 09713425, 24(12), 2015, pp 60-64.	J N Chakraborty, Yashdeep Sharma and Pritpal Singh, 'Synthesis and application of nanoparticles for enhancement in properties of textiles'
2015	Fashion and Textiles, 2 (13), December, 2015,. pp 1-14.	Guneet Dhiman, & J. N. Chakraborty, "Antimicrobial performance of cotton finished with triclosan, silver and chitosan
2014	Asian Textile Journal, January, 2014, pp 63-69	J N Chakraborty, Swati and Tharakeshwari S, 'Microencapsulation: The momentous technology in Textiles
2014	Journal of Textile and Apparel, Technology and Management, 9 (1), Fall 2014, 1-17	J N Chakraborty, Vivek Sharma and Preeti Gautam, 'Enhancing UV Protection of Cotton through application of novel UV Absorbers'
2014	Journal of Energy and Chemical Engineering, Vol. 2, Issue 2, April, 2014, pp 59-66	Priyadarshi Jaruhar and J N Chakraborty, 'Dyeing of Cotton with Sulphur Dyes Using Alkaline Lipase as Reduction Catalyst'
2014	Fashion and Textiles, 1(23), December, 2014, pp 1-15	Dhiman, G. & Chakraborty, J. N. "Soil release performance of cotton finished with Oleophobol CPR and CMC-Na salt"
2014	Indian Jr of Fibre and Textile Res, 39, September (2014), pp 303-309	J N Chakraborty and Priyadarshi Jaruhar, 'Dyeing of cotton with sulphur dyes using alkaline catalase as reduction catalyst
2014	Indian Jr of Fibre and Textile Research, 39, Dec (2014), pp 411-417	J N Chakraborty and P P S Madan, 'Imparting anti-shrink properties to wool by individual and simultaneous application of keratinase and papain
2013	Asian Textile Journal, 22, 2, February, 2013 pp 45-49	J N Chakraborty, Preeti Gautam and Vivek Sharma, Anti bacterial finishes on cotton promoting health and hygiene
2013	Textile Research Journal, 83, 5, March (2013) pp 441-449	J N Chakraborty and Guneet Dhiman, 'Effectiveness of laccase in the oxidation and recovery of sulfur dyes
2013	Indian Journal of Fibre & Textile Research, Vol. 38, June 2013, pp. 150-155	A K Patra, S S Mahish and J N Chakraborty, 'Wet pretreatment of linen by enzyme and alternative bleaching techniques'
2013	Journal of Chemistry and Chemical Engineering, 7(2013) pp 199-208	Priyadarshi Jaruhar and J N Chakraborty, 'Dyeing of cotton with sulfur dyes using alkaline pectinase',
2013	Textile Research Journal, 83, 13, August (2013) pp 1366 - 1376.	Priyadarshi Jaruhar and J N Chakraborty, 'Dyeing of cotton with sulfur dyes using alkaline pectinase'

2013	Asian Textile Journal, 22, 9, September, 2013, 69-74	J N Chakraborty and Diksha Deora, 'Functional and interactive sportswear'
2013	Asian Textile Journal, October, 2013, pp 49-54	J N Chakraborty, Tharakeshwari. S and Swati, 'Enzymatic colouration of textiles'
2012	Asian Textile Journal (ISSN 0971 3425), 21, 4, 2012, pp71-75	J N Chakraborty, Vivek Sharma and Preeti Gautam, 'Colourful horizon of luminescence'
2012	Asian Textile Journal (ISSN 0971 3425), 21, 5, 2012, pp67-70	J N Chakraborty, Preeti Gautam and Vivek Sharma, 'Textile cardiovascular implants: ensuring healthy heart'
2012	Asian Technical Textiles, April-June, 2012, pp 37-42	J N Chakraborty, Vivek Sharma and Preeti Gautam, 'Textiles: Empowering the aviation'
2012	Asian Textile Journal, 21, 7, July, 2012, pp 57-61	J N Chakraborty, Vivek Sharma and Preeti Gautam, 'Enhanced protection in textiles against UV radiations'
2011	Asian Textile journal, 20, 4 (2011) pp37-39	Amandeep Kaur and J N Chakraborty, 'Smart handling of Stripes and Checks in Apparels and Fashionwears'
2011	Asian Textile journal, 20, 6 (2011) pp 66-75	Guneet Dhiman and J N Chakraborty, 'Parachute: The Aerodynamic Lifting and Deaccelerating Device'
2011	Asian Textile Journal, 20, 7 (2011) pp 43-48	Amandeep Kaur, Shelly Khanna, Shilpa Dua and J N Chakraborty, 'Textile structured ECG for Cardiac-care'
2011	Asian Textile Journal (ISSN 0971 3425), 20, 8 (2011) pp 63-66	J N Chakraborty, Vivek Sharma and Preeti Gautam, 'Fantasy of Chromic Colourants'
2010	Asian Textile Journal, 19, 4 (2010) pp 63-69	J N Chakraborty, Guneet Dhiman and Pratibha Singh, 'Differential coloured effect on denim garments'
2010	Indian Journal of Fibre & Textile Research, 35, 4 (2010) pp 337-341	A K Patra, A Madhu and J N Chakraborty, 'Study on enzymatic pretreatment of linen'
2010	Asian Textile Journal, 19, 11 (2010) pp 31-36	J N Chakraborty, Venkata Parameswararao B and Rajesh Dwivedi, 'Anti-microbial finishing of Textiles'
2010	Asian Textile Journal, 19, 12 (2010) pp 43-57	J N Chakraborty, D Arjun and K Srinivasulu, 'Application of Textiles in Medical, hygiene and health care'
2009	Asian Textile Journal, 18, 1 (2009) pp67-72	A K Patra and J N Chakraborty, 'Linen - Perspective and Chemical pretreatment'
2009	Asian Textile Journal, 18, 3 (2009) pp58-61	Amandeep Kaur and J N Chakraborty, 'Computer Integrated Manufacturing: An indispensable technology for Apparel Industry'
2009	Asian Textile journal, 18, 4 (2009) pp37-39	Amandeep Kaur and J N Chakraborty, 'Essence of healthy and motivative clothing'
2009	Textile Asia, September (2009) pp19-21	A K Patra and J N, Chakraborty, 'Low temperature peroxide bleaching of flax'
2007	Melliand International, 14, 3 (2007) pp 256	J N Chakraborty, R Pal and R Gupta, 'Garment dyeing as compared to fabric dyeing and their conformance'
2006	Asian Textile Journal, 15, 12 (2006) pp67-76	J N Chakraborty, Rudrajeet Pal and Ramanpreet Kaur, 'Plasma treatment of textiles'
2005	Melliand International, 12, 4 (2005) pp319-323	J N Chakraborty, M Das and R B Chavan, 'Kinetics of Dyeing and Properties of Iron(II) salt Complexes for Reduction of Vat Dyes'
2005	Melliand International, 11, 1 (2005) pp46-49	J N Chakraborty and R B Chavan, 'Continuous vat dyeing of cotton at room temperature using iron(II)salt complexes'
2005	Indian Journal of Fibre & Textile Research, 30, 4 (2005) pp468-476	J N Chakraborty, Rudrajit Pal and P R Megha, 'Garment Dyeing'
2005	Asian Textile Journal, 14, 11 (2005) pp 59-64	J N Chakraborty, Jaspreet Kaur, M Khanna and V V Marwaha, 'Ink-Jet Printing of Textiles'
2005	The Indian Textile Journal, 14, 12 (2005) pp39-51	J N Chakraborty, Ruhi Gupta, Vijaya Rani and Monimoy Das, 'Chemical processing of silk'
2004	Indian Journal of Fibre & Textile Research, 39, March (2004), pp100-109	J N Chakraborty and R B Chavan, 'Dyeing of Denim with indigo'

2004	The Indian Textile Journal, April (2004) pp19 - 23	J N Chakraborty, G Sophat, N Singh and J Singh, 'Effect of sodium hydroxide on polyester'
2004	AATCC Review, 4, 7 (2004) pp17-20	J N Chakraborty and R B Chavan, 'Dyeing of Cotton with vat dyes using iron(II) salt complexes'
2004	Colourage, 11 (2004) p27-32	J N Chakraborty, B Sur, S Singh and S K Laga, 'Multi - Mono Coloured Effect on Cotton through Pretreatment with NaOH'
2003	Colourage, January (2003) pp73-79	R B Chavan, S Jahan and J N Chakraborty, 'Innovation in dyeing of cotton with Indigo'
2001	Coloration Technology, 117, 2 (2001) pp88-94	R B Chavan and J N Chakraborty, 'Dyeing of Cotton with Indigo using Iron(II) salt Complexes'
2000	Indian Journal of Fibre & Textile Research, July, 25 (2000) pp130-137	R B Chavan and J N Chakraborty, 'Enhancement in Indigo Uptake on Cotton through Metal salt Pretreatment'
1998	The Textile Industry & Trade Journal, May / June (1998) pp23-24	S K Laga, P Panda, S D Deshpande, J N Chakraborty and A K Ghosh, 'Finishing of Special sorts, Part-V'
1997	The Textile Industry & Trade Journal, Jan/February (1997) pp51-54	S K Laga, S S Chinchwade, S D Deshpande, J N Chakraborty and A K Ghosh, 'Finishing of Special sorts, Part-I'
1997	The Textile Industry & Trade Journal, Mar/ April (1997) pp41-43	S K Laga, S S Chinchwade, S D Deshpande, J N Chakraborty and A K Ghosh, 'Finishing of Special sorts, Part-II'
1997	Indian Textile Journal, 106, 4 (1997) pp98-99	J N Chakraborty, V Arora, P Kumar and J Singh, 'Use of Ammonia in dyeing with Reactive dyes'
1997	The Textile Industry & Trade Journal, May / June(1997) pp37-38.	S K Laga, S S Chinchwade, S D Deshpande and J N Chakraborty, 'Finishing of special sorts, Part-III'
1997	Indian Textile Journal, 106, 7 (1997) pp70-74	J N Chakraborty, A Dhand and S K Laga, 'Effect of Degumming and Bleaching'
1997	The Textile Industry & Trade Journal, Sept/Oct(1997)pp25-26	S K Laga, P Panda, S D Deshpande, J N Chakraborty and A K Ghosh, 'Finishing of Special sorts, Part-IV'
1996	Indian Textile Journal, 106, 1 (1996) pp24-27	J N Chakraborty, 'Dyeing of Acrylics'
1996	Indian Textile Journal, 105, 4(1996) pp60-63	J N Chakraborty, 'Disperse dyeing of Polyester'
1996	The Textile Industry & Trade Journal, 34, India-ITME issue (1996) pp87-88	J N Chakraborty, V Verma and N Sehgal, 'Combined Desizing, Scouring and Bleaching of Cotton fabric'
1996	The Textile Industry & Trade Journal, Export Number (1996) pp114-116	J N Chakraborty, B S Bedi and M Surendran, 'Combined Scouring and Vat dyeing of Cellulosics'
1995	Colourage, 42, 1 (1995) pp25-27	S K Laga, S K Sharma and J N Chakraborty, 'Jute as Geo-textiles'
1995	Textile Trends, 1 (1995) pp43-46.	S K Laga, S D Deshpande, J N Chakraborty and A K Ghosh, 'Finishing of Special Fabrics, Part - I'
1995	Textile Dyer & Printer, March 15(1995) pp20-23	S K Laga, S D Deshpande, J N Chakraborty and A K Ghosh, 'A Novel Approach for the Finishing of Special Fabrics, Part-I'
1995	Textile Dyer & Printer, July 19 (1995) pp24-25	S S Chinchwade, S K Laga, V B Upadhye, P V Kadole, D P Chatterjee and J N Chakraborty, 'Air Pollution and its Control, Part-I'
1995	Textile Trend, August (1995) pp37-38	S D Deshpande, S K Laga, A K Ghosh and J N Chakraborty, 'Finishing of Bast Fibre goods'
1994	Textile Industry of India, 7 (1994) pp7-11	J N Chakraborty, 'Proper Washing and Oxidation during Dyeing of Cellulosics'

1994	Textile Trends, 7 (1994) pp41-42.	S D Deshpande, S K Laga, A K Ghosh and J N Chakraborty, 'Finishing of Knitted goods'
1994	Colourage, 41, 8 (1994) pp33-35	S D Deshpande, S K Laga and J N Chakraborty 'Application of Textiles in Automobile Industry'
1994	Textile Dyer & Printer, 27, Sept. 28 (1994) pp20-22	S K Laga, S D Deshpande, J N Chakraborty and A K Ghosh, 'Finishing of Cotton goods of Special weaves'
1993	Asian Textile Journal, 2, 1 (1993) pp47-50	R C D Kaushik, J K Sharma and J N Chakraborty, 'Investigation of Oxidiser / Reducer to Control Effluent load in dyeing with Sulphur dyes'
1993	Colourage, 40, 4 (1993) pp33-35.	R C D Kaushik, J K Sharma and J N Chakraborty, 'Effluent load in Polyester dyeing'
1993	Indian Textile Journal, 103, 2 (1993) pp66-70.	J N Chakraborty, 'Reduction of Effluent load in Dyeing of Cotton fabric'
1993	Textile Dyer & Printer, 26, 8 (1993) pp25-27	J N Chakraborty and S K Laga, 'Colour Mixing and Colour Matching
1993	Asian Textile Journal, 1, 9(1993) pp33-40	R C D Kaushik, J K Sharma and J N Chakraborty, 'Source Reduction Technique to Control Effluent load in Reactive dyeing'
1992	Asian Textile Journal, 1 , Dec. 92 / Jan 93 (1992) pp52-53	R C D Kaushik, J K Sharma and J N Chakraborty, 'Effluent load in Dyeing with Direct dyes'
1992	Textile Dyer & Printer, 25, 6 (1992) pp23-26	J N Chakraborty, 'Production loss in Dyehouses - Practical faults in Shop-floor level'
1992	Indian Textile Journal, 103, 10 (1992) pp24-31	J N Chakraborty, 'Sodium Hydrosulphite in Vat dyeing'
1991	Textile Dyer & Printer, 24, 23 (1991) pp31-33.	J N Chakraborty, 'Exact Volume of water to be used in Jigger dyeing'
1990	Textile Dyer & Printer, 23, 26 (1990) pp31-33	J N Chakraborty, 'Reactive HE dyes- Chemistry, Techniques and Effluent problems involved'
	Asian Textile Journal, 29(12), December, 41-50	J N Chakraborty and Deepsikha, Enzymatic Scouring of Cotton

Conference Publications :

Year	Conference	Publication
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2021	International E-Conference on Sustainable Growth in Textiles (SGT-2021), Uttar Pradesh Textile Technology Institute, Kanpur, August 19-21, 2021	J N Chakraborty and Vivek Sharma, Sustainable finishes in textiles, Conference Proceedings
2021	AICTE – ISTE Sponsored Induction / Refresher Program (Slot 1), K S Rangasamy College of Technology, Tiruchengode-637215 (TN), 12.03.2021	Dr. J N Chakraborty and Veeresh Mudnoor C, DYEING OF COTTON WITH VAT DYES USING ALKALINE ENZYMES ALONGWITH IRON (II) SALT
2020	Innovative Approaches for the Developments of Sustainable Textile Products and Processes (ICTX2020), Feb 9-10,2020, The Institution of Engineers (India), Kolkata	Chairman, the first post lunch session, Technical Session 1.A : 14-45 PM to 16-15 PM; Theme: Development of sustainable fibrous material,
2020	International Conference on Handlooms, Fashion, Non-woven and Technical Textiles (ICHFNTT 2020), 27th and 28th February, 2020, Department of Textile Technology, University College of Technology, Osmania University. Hyderabad.	Omender and J N Chakraborty, Eco-Friendly vat dyeing of cotton fabric using alkaline iron (ii) salt as reducing agent
2020	International Conference on Innovative Approaches for the Development of Sustainable Textile Products and Processes; The Institution of Engineers (India), February 9-10, 2020, Kolkata	Veeresh Mudnoor and J N Chakraborty, Dyeing of cotton with vat dyes using alkaline protease alongwith iron (ii) salt
2020	National Conference on Sustainable Growth in Textiles (NCSGT-2020), Uttar Pradesh Textile Technology Institute, Kanpur, August 12-14, 2020.	J N Chakraborty, Sustainable technologies in chemical processing of textiles, Conference Proceedings
2020	1st International conference on ‘Advances in Textile Engineering and Apparel Technology (ICATEAT 2020)’, August 23, 2020, Journal of Textile and Clothing science, online.	Bharti Rana and J N Chakraborty, Decolourisation of Reactive dyes using lacase- mediator system
2020	AICTE sponsored International E-Conference on “Recent Trends in Textiles – A Paradigm for Innovative and Sustainable Fibers, Yarns, Fabrics and Garments Production, Processing & Designing Aspects”, TIT&S, Bhiwani, September 18-19, 2020..	Bharti Rana and J N Chakraborty, Laccase Mediator System-" A Promising Technology For Decolourisation Of Dyes "- A Review
2020	AICTE sponsored International E-Conference on “Recent Trends in Textiles – A Paradigm for Innovative and Sustainable Fibers, Yarns, Fabrics and Garments Production, Processing & Designing Aspects”, TIT&S, Bhiwani, September 18-19, 2020..	Bharti Rana and J N Chakraborty, Laccase Mediator System-" A Promising Technology For Decolourisation Of Dyes "- A Review
2019	International Conference on Emerging Trends in Traditional and Technical Textiles (ICETT 2019), Nov 1-3, 2019, NIT, Jalandhar	J N Chakraborty, Sustainable technologies in textile chemical processing, Keynote address
2016	AATCC International Conference, April 19-21, 2016, Williamsburg, Virginia, US	J N Chakraborty and Priyadarshi Jaruhar, ‘Dyeing of cotton with sulphur dyes using alkaline enzymes as alternate reducing systems’
2014	International Conference on Emerging Trends in Traditional and Technical Textiles (ICETT), April 11-12, 2014, NIT, Jalandhar, India.	P Jaruhar and J N Chakraborty, ‘Substitution of Sodium Sulphide In Dyeing of Cotton by Eco-friendly Enzymatic Reduction’
2014	International Conference on Emerging Trends in Traditional and Technical Textiles (ICETT), April 11-12, 2014, NIT, Jalandhar, India	J N Chakraborty and Vivek Sharma, ‘Fluorescent Colourants enhancing Aesthetics and Functionality’
2013	AATCC International Conference on Advances in fibres, finishes, technical Textiles and Non-wovens (AFFTTN) , October 1-2, 2013, The Orchid, Mumbai, India.	J N Chakraborty, Vivek Sharma and Preeti Gautam, ‘Textile composites empowering the aerospace sector’

2013	AATCC International Conference on Advances in fibres, finishes, technical Textiles and Non-wovens (AFFTTN) , October 1-2, 2013, The Orchid, Mumbai, India.	7. J N Chakraborty, Vivek Sharma and Preeti Gautam, 'Nanotechnology adding new dimensions to UV protection of cotton'
2011	1st SMARTEX- Egypt 2011 World Textiles Conference, November 22–24, 2011, Kafrelsheikh University, Egypt	A K Patra and J N Chakraborty, 'Enzymatic scouring of linen with Pectinase and Xylanase'
2007	International conference on 'Futuristic Trends in Textiles', December 10-12, 2007, National Institute of Technology, Jalandhar, Punjab, India.	3. J N Chakraborty, 'Vat dyeing of cotton at room temperature with iron(ii) salt- weaker ligand based reducing systems'
2007	International conference on 'Futuristic Trends in Textiles', December 10-12, 2007, National Institute of Technology, Jalandhar, Punjab, India.	4. A K Patra and J N Chakraborty 'Studies on preparatory processing of linen'
2006	National conference on 'Emerging trends in textile, Fibre & Apparel Engg., Govt. College of Engg & Technology, Berhampore, West Bengal, 18-19th March, 2006.	2. J N Chakraborty and R B Chavan, 'Dyeing of Cotton with Vat dyes at room temperature using Iron(II) salt - ligand based reducing systems'
2003	2nd Indo-Czech Textile Research Conference, 28th–29th Nov, 2003, Coimbatore	2. S K Laga, V B Upadhye, S S Chinchwade and J N Chakraborty, 'Use of low cost Absorbents for Treatment of Process house Waste Water'
2000	1st international symposium in Textile Engg., 5-8th April, 2000, Natal, Brazil	1. R B Chavan and J N Chakraborty, 'Alternate Reducing Systems based on Iron(II) complex in Dyeing of Cotton with Vat Dyes'
1998	Environmental issues: Technology options for Textile Industry, IIT, Delhi, 6-7th November, 1998.	1. R B Chavan, S Jahan and J N Chakraborty, 'Innovations in dyeing of cotton with Indigo'
	AICTE sponsored International E-Conference on "Recent Trends in Textiles", Department of Fashion & Apparel Engineering, TIT&S, Bhiwani, September 18-19, 2020..	15. Bharti Rana and J N Chakraborty, Laccase Mediator System-" A Promising Technology For Decolourisation Of Dyes "- A Review

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
Text Book	Fundamentals and Practices in Colouration of Textiles, 2nd Ed (2014)	Woodhead Publishing India	J N Chakraborty	978-93-803-0846-3	2014
Edited Book	Chapter 22: Dyes, Metal Complex' in Materials: General 1, Ed. Stephen Burkinshaw, Encyclopedia of Color Science and Technology, Ed. Ronnier Luo	Springer Publishing, New Delhi	J N Chakraborty	978-1-4419-8070-0	2013
Edited Book	Chapter 3: Strength properties of fabrics, In "Improving the durability of textiles", Editor: Dr. Patricia A. Annis	Woodhead Publishing Limited, UK	J N Chakraborty	978-0-85709-087-4	2012
Edited Book	Chapter 2: Designing through Dyeing and Finishing, In Textile design: Principles, Advances and Applications, Editors: Dr Amanda Briggs-Goode and Dr Katherine Townsend	Woodhead Publishing Limited, UK	J N Chakraborty	978-1-84569-646-7	2011

Edited Book	Chapter-13: Metal complex dyes, In "Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of dyes, Volume 1: General aspects of dyeing", Editor: Dr Matthew Clark	Woodhead Publishing Limited, UK	J N Chakraborty	978-1-84569-695-5	2011
Edited Book	Chapter 14: Sulphur dyes, In 'Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of dyes, Volume 1: General aspects of dyeing', Editor: Dr Matthew Clark	Woodhead Publishing Limited, UK	J N Chakraborty	978-1-84569-695-5	2011
Edited Book	Chapter 6: An overview of dye fastness testing, In "Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of dyes, Volume 1: General aspects of dyeing, Editor: Dr Matthew Clark"	Woodhead Publishing Limited, UK	J N Chakraborty	978-1-84569-646-7	2011
Text Book	Fundamentals and Practices in Colouration of Textiles, 1st Ed (2009)	Woodhead Publishing India	J N Chakraborty	978-81-908-0014-3	2009

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Co Principal Coordinator	Consultancy	TECHNOLOGY GAP STUDY FOR THE BICYCLE PARTS MANUFACTURERS CLUSTER AT LUDHIANA	TIFAC (DST)	January, 2011	April, 2012	10 lakhs	Completed	Dr. Rakesh Chandra, Dr. Arvind Bhardwaj, Mr. Rajiv Trehan
Principal Investigator	Consultancy	ASSESSMENT OF TRADE EFFLUENT GENERATED BY TEXTILE INDUSTRIES IN LUDHIANA	Punjab Pollution Control Board, UNIT-II, Ludhiana	January 2017	Ongoing	Rs. 1.43 lakhs	Report submission pending	NA

Events Organized :

Category	Type	Title	Venue	From	To	Designation
Conference	International	Futuristic Trends in textiles	NIT, Jalandhar	10/11/07	12/11/07	Conference Chairman / Convenor

Conference	International	Redefining Textiles: Cutting Edge Technology of the Future	NIT, Jalandhar	08/04/16	10/04/16	Conference Chairman/ Convenor
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Professional Affiliations :

Designation	Organization
Senior Member (No.0247099)	American Association of Textile Chemists & Colorists (AATCC)
Member	Society of Dyers & Colourists, Bradford, UK
Life member (No. DH/LM/1248)	The Textile Association (India)
Life member (No. LM 15731)	Indian Society for Technical Education

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Deepsikha Joshi	MULTIFUNCTIONAL FINISHING OF COTTON USING β -CYCLODEXTRIN ASSISTED ESSENTIAL OILS	Passed Comprehensive Exam	2021	Nil
Vivek Sharma	Yet to be decided	Passed course work	2021	
Veeresh Mudnoor	Reduction and Application of vat dyes on cotton using enzymes with additives	Completed	2020	NA
Pavittar Puneet Singh Madan	Studies on enzymatically produced shrink resist wool and the effect of transglutaminase on its remediation Yet to be decided	Passed Comprehensive Exam	2020	NIL
Amit Madhu	PRETREATMENT OF COTTON USING IMMOBILIZED ENZYMES	Completed	2019	NIL
Shelly Khanna	APPLICATION AND CHARACTERIZATION OF CYCLODEXTRIN ASSISTED FRAGRANCE AND MOSQUITO REPELLENT FINISHING OF TEXTILES WITH ESSENTIAL OILS	Completed	2017	NIL
Amandeep Kaur	BIO-FINISHING OF WOOL WITH IMMOBILISED PROTEASE	Completed	2016	Nil
Guneet Dhiman	Compatibility of Anti- crease, Anti-microbial and Soil release Finishes for simultaneous application on Cotton	Completed	2016	NA
Priyadarshi Jaruhar	REDUCTION AND APPLICATION OF SULPHUR DYES ON COTTON USING ENZYMES	Completed	2014	Nil
Arun Kumar Patra	STUDIES ON ENZYME APPLICATIONS IN PREPARATORY WET PROCESSING OF LINEN	Completed	2010	Nil

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Aakanksha Singh	Multifunctional Finishing of Cotton Fabric using ZnO and SiO ₂ Nanoparticles along with DMDHEU	Completed	2021	NA
Anadi Mishra	MULTIFUNCTIONAL FINISHING OF COTTON USING TITANIUM DI-OXIDE AND SILICON DI-OXIDE NANOPARTICLE IN COMBINATION WITH MALIC ACID	Completed	2021	NA
Bharti Rana (18210105)	Decolourisation of Reactive Cold Brand Dyes with Commercial Laccase-Mediator System	Completed	2020	Nil
Omender (18210113)	Dyeing of cotton fabric with vat dye using alkaline iron (ii) salt as a reducing agent	Completed	2020	Nil
Pranav Majumdar (17210113)	Enzymatic dyeing of Denim	Completed	2019	Nil
Neha (16210107)	Reuse of Direct dyebath in dyeing cotton with direct dye	Completed	2018	Nil
Himadri Tanaya Mohanta (14218019)	Synthesis, characterization and application of oxides of titanium, silicon and zinc nanoparticles for functional finishing on cotton	Completed	2016	Nil
Madan Mohan Das (13218005)	Enzymatic Scouring of Cotton	Completed	2015	Nil
Tharekeswari S (12210114)	Effectiveness of various Anchoring Chemicals for Durable Antibacterial Finish of Cotton	Completed	2014	Nil
Swati (12210113)	Durable fragrance and mosquito repellent finishing of cotton, polyester and their blends	Completed	2014	Nil
Pavittar Punit Singh (11210007)	Imparting anti-shrink properties to wool by individual and simultaneous application of keratinase and papain	Completed	2013	Nil
Ritika Dogra (11210008)	Fragrance finishing of cotton using vanillin, Beta-cyclodextrin and modified DMDHEU	Completed	2013	Nil
Dibyendu Pal (09210031)	Effectiveness of acrylic acid-maleic acid based co-polymer on washing-off of reactive dyed cotton	Completed	2012	Nil
Vivek Sharma (10210114)	Application of novel UV absorbers to enhance UV shielding of cotton	Completed	2012	Nil
Preeti Gautam(10210106)	Augmenting anti-microbial activity of cotton through application of novel antimicrobial agent	Completed	2012	Nil
Guneet Dhiman (09210103)	Application of laccase in dyeing of cotton with Sulphur dyes	Completed	2011	Nil
Amandeep Kaur (05210105)	Selection of Sewing Thread for Quality and Cost effective sewing of Distressed Stretch Denim Jeans	Completed	2007	Nil
Mandeep Singh (05210104)	Study of Garment pretreatment as compared to fabric pretreatment	Completed	2007	Nil

Admin. Responsibilities :

Position Held	Organization	From	To
Lab In Charge, Textile Chemical Processing	Dr. B R Ambedkat NIT, Jalandhar	1994	Tilldate
Head, Textile Technology	Dr. B R Ambedkat NIT, Jalandhar	04.02.2005	03.09.2007
Head, Textile Technology	Dr. B R Ambedkat NIT, Jalandhar	04.09.2009	03.09.2012

Chairman, Institute Purchase Committee	Dr. B R Ambedkar NIT, Jalandhar	01.02.2015	Tilldate
Faculty Advisor, Classroom Infrastructure	Dr. B R Ambedkar NIT, Jalandhar	June 2004	January 2010
Public Information Officer (PIO)	Br. B R Ambedkar NIT, Jalandhar	04/09/2012	03/09/2013

Award and Honours :

Title	Activity	Given by	Year
The J William Weaver Award	Best Research Paper of 2019 in AATCC Journal of Research	American Association of Textile Chemist Colorist (AATCC)	2020
Wall of Fame	One of the Top 50 Expert Faculties in the field of Chemical/Bio Medical/Marine/Petroleum & Textile Engineering Across India for the year 2019	ULEKTZ	2019