

Publication
Of
Chemistry Department

JIS College of Engineering

(An Autonomous Institute)

Kalyani, Nadia

LIST OF PAPERS PUBLISHED BY FACULTY MEMEBRS OF DEPARTMENT OF Chemistry

Title of the paper	Author	Publication Details/Vol.No./ISSN No./Page
Advanced Vehicle Systems and Technologies: Economic and Environmental Implications	Dr. Trina Dutta	Encyclopedia of Renewable and Sustainable Materials, vol. 3, pp. 232–244. Oxford: Elsevier. http://dx.doi.org/10.1016/B978-0-12-803581-8.11050-1
Green and Sustainable Manufacturing of Metallic, Ceramic and Composite Materials	Dr. Trina Dutta	1. Encyclopedia of Renewable and Sustainable Materials, vol. 3, pp. 474–486. Oxford: Elsevier. http://dx.doi.org/10.1016/B978-0-12-803581-8.11023-9
Sustainable Carbon Di-Oxide Sequestration Using Photosynthetic Reactions	Dr. Trina Dutta	1. Encyclopedia of Renewable and Sustainable Materials, vol. 3, pp. 759–770. Oxford: Elsevier. http://dx.doi.org/10.1016/B978-0-12-803581-8.11025-2
Pollution in Damodar River Basin- A statistical analysis	Dr. Trina Dutta	SWRMCC,2020, International Conference,13th March-15th March, 2020. Pg. no. 89
Study towards Green Concrete for better sustainable construction	Dr. Trina Dutta	ICNNEE 2019, AICTE Sponsored 2nd international conference, 18th and 19th October, 2019, Elsevier SSRN

Bio-fuel for Sustainable Future – A Review	Dr. Trina Dutta	UEM Green, 1st international conference on energy management for green Environment & Biodiversity conservation ecosystem management, Kolkata held on 25th to 27th September, 2019. (ISBN: 978-1-7281-3007-1)
IOT and Energy Optimization: Begining of a Revolution	Dr. Trina Dutta	FEMAS 2019, GNIT, held on 26th and 27th September, 2019, (ISBN No: 978-93-5391-015-0)
IoT for Healthcare Industries: A Tale of Revolution	Dr. Trina Dutta	Healthcare Paradigms in The Internet of Things Ecosystem, Elsevier (Accepted,2020), Paperback ISBN: 9780128196649
Biogenic silver nanoparticle synthesis and stabilization for apoptotic activity; insights from experimental and theoretical studies.	Tanmoy Dutta	Chemical Papers; Vol 74; 6/3/2020; Springer Nature; IF ; 1.2; ISSN : 1336-9075; DOI : https://doi.org/10.1007/s11696-020-01216-z
Facile Green Synthesis of Silver Bionanocomposite with Size Dependent Antibacterial and Synergistic Effects: A Combined Experimental and Theoretical Studies	Tanmoy Dutta	Journal of Inorganic and Organometallic Polymers and Materials; Vol : 30; 1839-1851; 25/09/2019; IF-1.7; ISSN : 1574-1451; Springer DOI : https://doi.org/10.1007/s10904-019-01332-8

Chitosan encapsulated water-soluble silver bionanocomposite for size-dependent antibacterial activity	Tanmoy Dutta	Nano-Structures and Nano-Objects; Vol 20; Elsevier IF-1.1;ISSN : 2352-507X https://doi.org/10.1016/j.nanoso.2019.100393
Green synthesis of antibacterial and antifungal silver nanoparticles using Citrus limetta peel extract: Experimental and Theoretical studies	Tanmoy Dutta	Journal of Environmental Chemical Engineering; Vol 8; 07/05/2020; Elsevier; ISSN : 2213-3437; IF-1.2; DOI : https://doi.org/10.1016/j.jece.2020.104019
Review on Green Synthesis of ZnO Nano Particles and their Applications	Tanmoy Dutta	Proceedings of Industry Interactive Innovations in Science, Engineering & Technology (I3SET2K19), Available at SSRN; DOI : http://dx.doi.org/10.2139/ssrn.3541374
Optimization and Characterization of micro-crystalline cellulose extracted from Mercerized bamboo	Tanmoy Dutta	4th regional science and technology congress-2019, southern region, MAKAUT, WB, India
Study on Silver Gelatin Bionanocomposite	Tanmoy Dutta	Advancement in Polymeric Materials-2018 ; Central Institute of Plastic Engineering & Technology, Bhubaneswar, India
Green synthesis of silver bionanocomposite : A comparative study with the concentration of silver nitrate	Tanmoy Dutta	International Conference on Chemical Engineering and Advanced Polymeric Materials (ISBN : 978-93- 85777-83-7); Birla Institute of Technology, Mesra, India.
Stabilization and Dispersion of ZnO Nanoparticles in PVA Matrix	Ananya Barman	Published in Journal of Inorganic and Organometallic Polymers and Materials, https://doi.org/10.1007/s10904-019-01395-7 , Print ISSN-1574-1443 and Online ISSN-1574-1451. pp 1–10

<p>“Solar Powered Automated IoT based Drip irrigation system”.</p>	<p>Ananya Barman</p>	<p>In the book entitled “IoT and Analytics for Agriculture”. Springer publication, ISSN: 2197-6503, https://doi.org/10.1007/978-981-13-9177-4, page: 27-49. 2nd October,2019</p>
<p>Green and Sustainable Manufacturing of Metallic, Ceramic and Composite Materials</p>	<p>Ananya Barman</p>	<p>Encyclopedia of Renewable and Sustainable Materials, vol. 3, pp. 474–486. Oxford: Elsevier. http://dx.doi.org/10.1016/B978-0-12-803581-8.11023-9</p>
<p>Cellulose-Based Hydrogels for Pharmaceutical and Biomedical Applications</p>	<p>Ananya Barman</p>	<p>Published in the book entitled “Cellulose-Based Superabsorbent Hydrogels”, Springer International Publishing AG, part of Springer Nature, Chapter No.: 37-1 435736_0_En, Page: 1103-1130, Print ISBN- 978-3-319-77829-7, Online ISBN- 978-3-319-77830-3,https://doi.org/10.1007/978-3-319-77830-3_37</p>
<p>Optimization and Characterization of micro-crystalline cellulose extracted from Mercerized bamboo</p>	<p>Ananya Barman</p>	<p>4th regional science and technology congress-2019, southern region, MAKAUT, WB, India</p>
<p>Review on Green Synthesis of ZnO Nano Particles and their Applications</p>	<p>Ananya Barman</p>	<p>Proceedings of Industry Interactive Innovations in Science, Engineering & Technology (I3SET2K19), Available at SSRN; DOI : http://dx.doi.org/10.2139/ssrn.3541374</p>

LIST OF PAPERS PUBLISHED in 2017

Sl	Author (Including Co- author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No. Year)	Nature of Paper (Journal/Confer ence/Book Chapter)	National/ International	Journal Impact No./SCI Index/ISBN No/ISSN No.
1.	Trina Dutta	Removal of Arsenic from contaminated water using Micellar-Enhanced – Ultrafiltration.	Indian Journal of Environmental Protection	Journal	International	0253-7141
2	Trina Dutta	Removal of Arsenic from Contaminated Water using Micellar-Enhanced-Ultrafiltration	Indian Journal of Environmental Protection, an international monthly journal, Scopus indexed Publisher- Kalpana Corporation), ISSN: 0253-7141,2017, vol 37 (1), pp. 4-12.	Journal	International	ISSN: 0253-7141
3	Ananya Barman	Chapter Title: Cellulose-based hydrogels for pharmaceutical and biomedical applications Book Title: Cellulose-based superabsorbent hydrogels Springer International Publishing, Switzerland	Submitted on 12th September, 2017	Book Chapter	International	
4	Trina Dutta	ICME-III-18 (International Conference: Mother Earth, Dept. of Environmental Science The University of burdwan – 713104)	-	International Conference	Accepted on 26.11.17	Date of conference: 10 th-13 th January, 2018
5	Tanmoy Dutta	Conference	International	APM-2018, CIPET, Bhubaneswar	Abstract Accepted on 02.11.17	Advancement in Polymeric Materials in CIPET, Bhubaneswar

6	Jit Chakraborty	Conference	International	ICME-III-18 (International Conference: Mother Earth, Dept. of Environmental Science The University of burdwan – 713104)	Accepted on 26.11.17	Date of conference: 10 th-13 th January, 2018
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1.	Trina Dutta	Removal of Arsenic from contaminated water using Micellar- Enhanced – Ultrafiltration.	Indian Journal of Environmental Protection	Journal	International	0253-7141

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1	Dr. Mahuya Das Ananya Barman	Synthesis and stabilization of ZnO nano particles with PVA	PMS 2016, held on 14 th -16 th January in Bangkok, Thailand	Conference	International	
2	Tanmoy Dutta	Synthesis of silver nanoparticles using gelatin; effect of silver nitrate concentration	NSCTC-VII; University of Kalyani. P-58 24 th Feb,2016	Conference	National	
3	Trina Dutta	Arsenic removal from municipality water supply system using solid membrane- an innovative technology	I3SET 2K16, Organized by JISCE, Kalyani, on 25 th and 26 th Oct, 2016.	Conference	International.	
5	Tanmoy Dutta	Green synthesis of Silver Bionanocomposi te ; A comparative study with the concentration of Silver Nitrate.	ICEAPM 2016 ; BIT , Mesra, 18-8- 16 to 20-8-16	Conference	International.	ISBN: 978- 93-85777-83- 7

LIST OF PAPERS PUBLISHED in 2015

Sl	Author (Including Co- author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No. Year)	Nature of Paper (Journal/Confe rence/Book Chapter)	National/ International	Journal Impact No./SCI Index/ISBN No/ISSN No.
1	Dr. Mahuya Das Ananya Barman	Modification of Bamboo Cellulose in Different Form for Application in Polymer Composite.	The Book entitled “Cellulose and Cellulose derivatives: Synthesis, Modification, Nano structure and Application” edited by Md.Ibrahim H. Mondal, NOVA SCIENCE PUBLISHER Inc., New York USA (Accepted in January,2015 and published in	Book Chapter		978-1-63483- 571-8
2	Ananya Barman	Review on Biocompatibility of ZnO nano particles	ICAME 2015,29- 30th Jan,2015	Conference	International	ISBN:978- 81-322-2255- 2
3	Trina Dutta	Removal of Arsenic from Contaminated Water using Micellar- Enhanced Ultrafiltration	NIT,Golden Jubilee,2-4th October,2015	Conference	International	
4	Trina Dutta	Removal of arsenic from contaminated water by coagulation followed by polyelectrolyte enhanced	Desalination and water treatment(taylor & Francis),Pg:1-9	Journal	International	ISSN:1944- 3994 (Print), 1944-3986 (Online), Sci index: 0.988

		ultrafiltration				
5	Trina Dutta	Arsenic removal through combined method using synthetic versus natural coagulant	ICAME 2015,29-30th Jan,2015	Conference	International	ISBN:978-81-322-2255-2

LIST OF PAPERS PUBLISHED in 2014

Sl	Author (Including Co-author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No. Year)	Nature of Paper (Journal/Conference/Book Chapter)	National/ International	Journal Impact No./SCI Index/ISBN No/ISSN No.
1	Mahuya Das,	Thermal and Degradation Study of Short Bamboo Fiber and Polyester Resin Matrix Composite”	(Invited talk) APM 2014, 22nd – 24th Feb. 2014, CIPET, Bhubaneswar, Orissa, India.	Conference	International	
2	Mahuya Das	Stabilization of Silver Nanoparticles by Poly Vinyl Alcohol via In-situ an Ex-situ Method.	APM 2014, 22 nd – 24 th Feb. 2014, CIPET, Bhubaneswar, Orissa, India.	Conference	International	
3	Mahuya Das	Mechanical Propoerties Study of Bamboo Polyester composites.	Recent Advances in Polymer & Rubber Science & Technology-RAPT 2014, 22 nd -25 th January 2014, Department of Polymer Science & Technology, University of Calcutta, Kolkata, West Bengal, India.	Conference	International	

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Sl	Author (Including Co- author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No. Year)	Nature of Paper (Journal/Confe rence/Book Chapter)	National/ International	Journal Impact No./SCI Index/ISBN No/ISSN No.
1	Trina Dutta	Removal of Arsenic from contaminated water using hybrid treatment methodology	CHEMCON,2013; 27 th -30 th Dec,2013	Conference	International	
2	Dr.Mahuya Das	Study of Epoxy- PMMA Interpenetrating Polymeric Network System.	APM 2013, 01- 03rd Mar. 2013, CIPET, Lucknow, UP, India	Conference	International	ISBN:978- 81-8424-823- 4

LIST OF PAPERS PUBLISHED in 2012

Sl	Author (Including Co-author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No. Year)	Nature of Paper (Journal/Conference/Book Chapter)	National/ International	Journal Impact No./SCI Index/ISBN No/ISSN No.
1.	Trina Dutta	Environmental Aspect of Nanosized Fuel Additives	NANOSIM' organized by JISCE, Kalyani. pg-20, 24-25 Feb,2012	Conference paper	national	ISBN:-978-81-9230349-9
2.	Trina Dutta	Removal of Arsenic Using Membrane Technology" A review	IJERT, Vol.1, Issue 9,2012	Journal	International	Impact factor 1.76, ISSN-2278-0181,
2.	Ananya Barman	Biogenic Synthesis of Silver Nano Particles and their Anti-Bacterial Activity	NANOSIM' organized by JISCE, Kalyani. pg-20, 24-25 Feb,2012	Conference paper	national	ISBN:-978-81-9230349-9
3.	Dr.Mahuya Das	A Comparative Study of the Stress Relaxation Behaviour of the Untreated and the Alkali Treated Jute Fibres	123:3: 1348–1358	Journal	International	ISSN: 1097-4628
4.	Dr.Mahuya Das (Invited talk)	Degradative Study of Low Cost Bamboo Phenolic composites.	IMPC-2012. Kottayam, Kerala, India.23.03.2012-25.03.2012	Conference	International	
5.	Trina Dutta	Removal of Arsenic Using Membrane Technology-A Review	Vol.-1 Issue-9 Pg:1-23	Journal	International	ISSN:2278-0181
6.	Tanmoy Dutta	Studies of present ground and pond water condition with a focus on health, domestic , & industrial use related aspects:	NSCTC-VI; University of Kalyani. PP-16 2nd March,2012	Conference	National	

		A case study in parts of Midnapore Municipality area.				
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