

Debabrata Das

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(h-index: 65, i-10 index: 154)



— Personal Data

Date of Birth: 22nd November 1953

Gender: Male

Citizenship: Indian

Civil Status: Married

— Education

- 1985 **Ph.D.**
Subject: Biochemical Engineering.
Institute: Indian Institute of Technology Delhi, New Delhi, India.
Thesis advisor: Prof. T. K. Ghose and Prof. K. S. Gopalakrishnan
Thesis: Optimization of methane production from agricultural residues
- 1977 **Bachelor of Technology (B.Tech.)**
Subjects: Food Technology & Biochemical Engineering
Jadavpur University, Kolkata, India
- 1973 **Bachelor of Science (B.Sc. (Hon))**
Subject: Chemistry (Hon), Physics, Mathematics
Burdwan University, Burdwan, India

— Present activities

Scientific Advisor, Dhampur BioOrganic Ltd., New Delhi from 1st February, 2021.

Teaching two NPTEL 3 credits Courses on “Aspects of Biochemical Engineering” and “Industrial Biotechnology” (AICTE approved FDP course)

Reviewer of the Research project proposals submitted for Qatar National Research Fund (QNRF)

Member of National Board of Accreditation (NBA) for Biotechnology courses in the Indian Engineering colleges

Ph.D. thesis examiner of different Foreign and Indian University/Institution

— Teaching Experience

- 2021-2023 **Professor (INAE-AICTE Distinguished Visiting Professor)** in SRM Institute of Science and Technology, Chennai and Heritage Institute of Technology, Kolkata.
- 2018-2020 **Visiting Professor**
Biotechnology Department, I.I.T., Kharagpur and
P K Sinha Center for Bioenergy and Renewables
- 2003-2018 **Professor**
Biotechnology Department, I.I.T., Kharagpur

2012-2018 **Professor**
P K Sinha Center for Bioenergy & Renewables, I.I.T., Kharagpur

1997-2003 **Associate Professor**, Biotechnology Department, I.I.T., Kharagpur

1990-1997 **Assistant Professor**, Department of Chemical Engineering, IIT, Kharagpur

1988-1990 **Lecturer**, Department of Chemical Engineering, IIT, Kharagpur

— Professional Experience

2014-2017 **Professor-in-Charge**, P K Sinha Center for Bioenergy, I.I.T., Kharagpur

2012-2015 **Renewable Energy Chair Professor**, I.I.T., Kharagpur,

2000-2003 **Head**, Biotechnology Department, I.I.T., Kharagpur,

1985-1986 **Biochemical Engineer**, M/s Citurgia Biochemicals Ltd., Surat

1986-1987 **Post-Doctoral Fellow**, University of Utah, USA

—NPTEL Web based courses taught (Undergraduate/Postgraduate level)

2017-2024 (12 weeks) (eight years) **Industrial Biotechnology**

2018, 2021--2023 (12 weeks) (four years) **Aspects of Biochemical Engineering**
(AICTE approved FDP course)

— GIAN Web based courses taught

2016 (15 hrs.) **Biotechnology and process engineering for biofuels production**
National Institute of Technology Jalandhar, India

— Courses Taught

Undergraduate	Biochemical Reaction Engineering, Bioreactor analysis & Design, Bioprocess Technology Biotechnology in Pollution Abatement Immobilization Technology
Graduate classes	Aspects of Biochemical Engineering Bioprocess Plant & Equipment Design Energy Systems Modelling
Laboratory classes	Biochemical Engineering Energy Engineering

— Award

2013 **BRSI Malaviya Memorial award (for senior faculty)**

	For the outstanding contribution in hydrogen energy
2008	IAHE Akira Mitsui Award For the important contribution to hydrogen research
2000	DBT's Biotechnology Overseas Associateship University of Miami, Miami, USA

— Honour

2004	Fellow, West Bengal Academy of Science and Technology (WAST)
2011	Fellow, Biotechnology Research Society of India (BRSI)
2012	Fellow, Institute of Engineers (India) (IE)
2015	Fellow, Indian National Academy of Engineers (INAE)
2016	Fellow, International Association of Hydrogen Energy (IAHE)
2002	Best paper award in Biotechnology Session of CHEMCON
2019	Felicited by Biological Engineering Society (BES) at IIT Madras for the long-standing contribution in the area of Biological Engineering

— Top 2% Scientists in the world

Among top 2% Scientists (serial no. is 26994) in the world issued by Stanford University, USA 2022 based on citations received during the calendar year.

He holds third position in the area of 'Energy' in India.

— Technology Transferred

Technology Licence Agreement was signed between Indian Institute of Technology Kharagpur and **M/s. Dhampur Sugar Mills Ltd, Dhampur, UP, India** on our process titled "Biohydrogen production from the cane molasses based distillery effluent" on 3rd May, 2019

— Expert members of the committees

- National Board of Accreditation on Biotechnology course in the Indian Engineering Colleges
- MNRE Project Monitoring Committees in "Hydrogen Energy and Fuel Cells"
- Faculty selection committee of IIT Delhi, IIT Madras, IIT-BHU, Varanasi, NIT Rourkela, NIT Durgapur, NIT Raipur, Jadavpur University, Calcutta University, Tezpur University, Guwahati University, Dr. APJ Abdul Kalam Technical University, Lucknow, etc.
- DBT Steering Expert Committee on Indo Brazil Bilateral Collaboration

- Expert Panel Member for Screening of the Proposals received against the DST call on National Innovation Challenge Award (NICA)
- INAE Sectional Committees-IX (Energy Engineering) for shortlisting of the nominations for Election of Fellows and Foreign Fellows
- Examiner of Ph.D. thesis submitted in UiT – The Arctic University of Norway, University of Malaya, IIT Bombay, IIT Madras, IIT Guwahati, IIT-BHU Varanasi, IIT Roorkee, IIT Delhi, NIT Rourkela, NIT Durgapur, NIT Raipur, Jadavpur University, Calcutta University, Allahabad University, Anna University, etc.

— Member of the Editorial Board of International Journal

- *International Journal of Hydrogen Energy*
- *Indian Journal of Biotechnology*
- *Biotechnology for Biofuels*
- *The Open Microalgae Biotechnology Journal*
- *INAE Letters*

— Ph.D. Thesis Supervised

1997	Kakali Badyopadhyay	Microbial degradation of phenolic waste
2001	Narendra Kumar	Hydrogen production by <i>Enterobacter cloacae</i> IIT-BT08
2003	David K. Daniel	Studies on glucoamylase fermentation by <i>Aspergillus awamori</i> NRRL 3112
2004	Jayshree Mishra	Molecular characterization of gene encoding for hydrogenase from <i>Enterobacter cloacae</i> IIT-BT 08
2005	Kaustubha Mohanty	Development of a multi-stage external loop airlift reactor for wastewater treatment
2005	Kaushik Nath*	Studies on Biological Hydrogen Production by Two-stage Fermentation Process
2006	Devrani Mitra	Structural Characterization of Mammalian Cell Entry Proteins and Peptidyl-Prolyl Cis-Trans Isomerase A of <i>Mycobacterium tuberculosis</i>
2008	Shireen Meher Kotay	Microbial production of hydrogen from sewage sludge
2012	Tumpa Dutta	Purification and characterization of Fe-hydrogenase obtained from <i>E. cloacae</i> IIT-BT08
2012	Mohan Yama	Clean Energy Generation using Microbial Fuel Cells
2014	Namita Khanna	Strain development and determination of suitable process parameters for maximization of hydrogen production using <i>Enterobacter cloacae</i> IIT-BT 08
	Kanhaiya Kumar	CO ₂ sequestration, hydrogen production and secondary metabolites extraction using <i>Chlorella sorokiniana</i>
	J. Jose Gilbert	Hydrogen production in photobioreactor using spent medium of Dark fermentation process
2015	Soumya Pandit	Improvement on the performance of microbial fuel cell by optimizing operational parameters
	Nitai Basak	Studies on photo fermentative biohydrogen production by Purple-non-sulfur bacteria
2016	Shantonu Roy	Biohydrogen production from organic residues by thermophiles

2017	Supratim Ghosh	Improvement of algal biomass production for the enhancement of biodiesel yield from <i>Chlorella</i> sp. MJ 11/11
	Bikram K. Nayak	Carbon dioxide sequestration and clean energy generation using <i>Anabaena</i> sp. PCC 7120
	Preeti Mishra	Improvement of the gaseous energy recovery by biohythane process using organic wastes
2018	Sinu Kumari	Improvement of gaseous energy recovery from lignocellulosic wastes
2019	G. Balachandar	Biohydrogen production from organic wastes and residues by dark Fermentation
2020	Jhansi L. Varanasi	Development and application of bioelectrochemical systems for enhanced energy recovery from organic wastes
	Ramya Veerubhotla	Development of Portable Microscale Power Generation Devices using Electrogenic Bacteria
	Srijoni Banerjee	Development of suitable process parameters for enhanced biodiesel production from <i>Neochloris oleoabundans</i> UTEX 1185
2021	Harshita Singh	Biohydrogen production from microalgal biomass in a biorefinery approach
	Vaishali Singh	Fermentative hydrogen and n-butanol production by <i>Clostridium saccharoperbutylacetonicum</i> DSM 14923
2022	Sanjukta Banerjee	Development of suitable harvesting process for <i>Chlamydomonas</i> and its potentiality for biofuel production under a biorefinery approach

* Received 'Innovative Student Projects Award 2007' of Indian National Academy of Engineering (INAE)

— Patent awarded

Indian Patent No. 188562	A Continuous process for the production of ethanol from starchy materials
India Patent No. 212605	A process for biological production of hydrogen
India Patent No. 355538	Development of cost effective membrane cathode assembly for a single chambered microbial fuel cell

Patent filed

- Earthen material based cathode separator assembly for scalable bioelectrochemical system (Patent Application No.805/KOL/2013).

- A system for simultaneous treatment of wastewater and waste gas using a microbial carbon capture cell reactor (Patent Application No. 0471/KOL/2015)
- Development of a novel microbial fuel cell (Application no. 21435)
- Novel approach of biodiesel extraction process from wet microalgal biomass by using Hibiscus rosasinensis leaf extracted Fe₂O₃ nanocatalyst (Application no. 21597)

— Design, commissioning of Pilot plants

- 800 L and 10,000 L Biohydrogen pilot plant at Indian Institute of Technology, Kharagpur
- 500 L and 2,000 L Biomethanation Pilot Plant at Indian Institute of Technology, Delhi
- 5,000 L Biomethanation Pilot Plant at Dourala Sugar Works; Meerat
- 3,000 L Biomethanation Pilot Plant at Citurgia Biochemicals Ltd. (CBL), Surat

— Short Term Courses and Seminar cum Workshop coordinated

May 10-24, 1989	Analysis and Design of Novel Bioreactor
June 25 – July 7, 1990	Biotechnology in Combating Pollution
June 11-24, 1992	Application of Immobilization Techniques in Biotechnology
July 14-30, 1999	Bioprocess Engineering with Genetically Modified Organisms

— National / International Symposium / Workshop organized

December 11-15, 1995	National Seminar on “Advances in Environmental Pollution Monitoring and Control”
January 15-16, 2003	Indo-Norwegian Seminar on ‘Recent trends in Tuberculosis research’
February 10-11, 2005	International Conference on ‘Functional Genomics for Novel Vaccine and Drug Design on Tuberculosis Infection’
February 7-9, 2008	International Workshop on ‘Biohydrogen Production Technology’
October 17-18, 2011	International Workshop on “Use of solar energy for CO ₂ capture, algae technology, and hydrogen production, and subsequent use of algal biomass for commercial purpose”
December 14-15, 2012	International Conference on “Advances in Biological Hydrogen Production Processes and Applications”
January 10-13, 2013	International Conference on “Algal Biorefineries”
3rd International Conference on “New and Renewable Energy Resources for Sustainable Future”	

(ICONRER-2021)

— Selected Plenary / Eminent / Invited Lectures Delivered in the last 6 years

4 January, 2024	Invited lecture in the Workshop on Materials and Technologies for futuristic Energy Systems MaTFES, NMRL, DRDO, Mumbai	Biochemical Based Biomass to Hydrogen Generation
9 December, 2022	Plenary lecture in the International Conference on Biotechnology for Sustainable Bioresources and Bioeconomy (BSBB-2022)	Biohythane: Fuel for the Future
5 November, 2022	Delivered Key-note lecture in BESCON 2022 held in Bose Institute, Salt Lake, Kolkata	Biohydrogen Production: A journey toward commercialization
25-30 May, 2022	Series of invited online lectures at SRM Institute of Science Institute of Technology, Chennai	Fundamentals of biofuel production processes
4, 6-7, 11, 13, 18 April, 2022	Series of invited online lectures at Heritage Institute of Technology, Kolkata	Next generation Biofuels
March 31, 2022	1 st Int. Conference on “Emerging Trends in Science and Technology”(ICETST-2022)	Biohythane: Fuel for the future
March 11, 2022	Third International Conference on “Recent advances in bio-energy research” (ICRABR-2022)	BioHythane production using organic wastes: the path towards a sustainable future
14 December,2021	AICTE -Training and Learning (ATAL) Faculty Development Programme (FDP) on “Biowaste to Bioenergy: A future sustainable energy source”	Scale-up biofuel production processes
15 November, 2021	XV National Agricultural Congress, BHU, Varanasi	Hydrogen from Biomass through Thermal and Microbial Routes
10-12 November & 19-21 November, 2021	Series of invited online lectures at Heritage Institute of Technology, Kolkata	Next Generation Fuels
23 September, 2021	Key note lecture in the International Conference on “Advanced Biology and Social Implications” of Swami Vivekananda University, Kolkata	Biohythane: Fuel for the future
13-15 September,	Series of invited online lectures at SRM	

& 20-22 September, 2021	Institute of Science and Technology, Chennai	Fundamental and Technology Advances on Biohydrogen Production Processes
22 March, 2021	Invited lecture in ONGC Webinar 'Role of Hydrogen in Energy Regime and preparedness of India'	Biohythane: Fuel for the future
11 February, 2021	Expert talk in 3rd International Conference on "New and Renewable Energy Resources for Sustainable Future" (ICONRER-2021), SKIT, Jaipur and Assiut University (Egypt)	Biohythane from renewable organic wastes: Fuel for the future
11 January, 2021	Chief Guest at the Inaugural session and delivered invited lecture in Webinar on ATAL Faculty Development Programme on "Green Technology and Sustainability Engineering" at MNNIT, Allahabad	Biohydrogen production: A holistic approach from lab scale to pilot-scale
16 December, 2020	Webinar on opportunities & challenges for production and utilisation of hydrogen in India, NISE, New Delhi	Biohydrogen production from organic wastes: The path towards a sustainable future
20 September, 2020	Webinar on "Waste to Energy", Centre for Environment, Institute of Science & Technology, JNTUH, Hyderabad	Biological hydrogen production via Dark fermentation: A holistic approach from Lab-scale to Pilot-scale
29 August, 2020	National Webinar on Research insights into biotechnology and Drug discovery, Osmania University	Biofuels production using renewable energy sources: The path towards a sustainable future
4 July, 2020	e-Faculty Development Program cum Workshop on Waste to Bioenergy, Organized by Sharda University, and Maharashtra Institute of Technology	Biofuels production using renewable energy sources: The path towards a sustainable future
7 June, 2020	Online summer internship programme (OSIP-2020) organized by IChE	Biofuels production from renewable energy sources; Zero-carbon gaseous fuel production processes by mesophiles
26-27 February, 2020	SPARC Indo-Belgium Workshop, IIT Kharagpur	Development of Portable Power Generation Devices using Electrogenic Bacteria
21-23 February, 2020	Biosangam 2020, MNNIT Allahabad Indo-U.S. Interdisciplinary Workshop at IIT	Biohythane: Fuel for the Future

2-3 January, 2020	Kharagpur on 'Sustainable Biorefinery for Waste Valorization'	Biohythane: An integrated approach for maximum gaseous energy recovery from organic wastes
25–30 November, 2019	AICTE-QIP course at IIT Kharagpur on "Waste to Wealth - the Paradigm, Practice and Potential"	Biohydrogen production from organic wastes
14-16 November, 2019	International Conference on "Application of Biotechnology in Industry and Society" (ABIS 2019), NIT Jalandhar	Commercialization of biohydrogen production process from distillery effluent
18-19 October, 2019	Biological Engineering Society (BESCON-2019, IIT Madras	Improvement of gaseous energy generation from organic wastes by Biohythane process
17 October, 2019	DBT National Workshop on Bioenergy, IIT Kharagpur, Kolkata	Biochemical Based Biomass to Hydrogen Generation
19-20 September, 2019	National Workshop on Hydrogen Generation Technologies, IISc, Bangalore	Biochemical Based Biomass to Hydrogen Generation
5-6 September, 2019	Indo-US joint workshop ;Recent Advances in Advanced Biofuel Technologies; 'Biohydrogen, Fuel Cell & Biobutanol, TERI, New Delhi	Biohythane: An integrated approach for maximization of gaseous energy recovery from organic wastes
23 October, 2018	2 nd Bharatna Dr. A.P.J. Abdul Kalam Memorial Lecture, IChE, IIT Kharagpur	Biohythane - A future fuel
17-23 June, 2018	World Hydrogen Energy Convention (WHEC 2018), Rio de Janeiro, Brazil	Biological hydrogen production via Dark fermentation: A holistic approach from Lab-scale to Pilot-scale
12 April, 2018	National Seminar NIT Agartala	Performance of different integrated bioenergy systems to maximize energy recovery from water hyacinth
25-31 March, 2018 30 March, 2017	Tsinghua University, Beijing, China International Conference on Trends and Advanced Research in. Green Energy Technologies, ICTARGET-2017	Series of lectures Improvement of gaseous energy recovery from lignocellulosic materials by biohythane process
March 17-18, 2017	National Workshop on Algal Technology and its Applications, NIT Calicut, India	Algal Biorefineries and its Potentiality
13-17 June, 2016	World Hydrogen Energy Convention (WHEC 2016), Zaragoza, Spain	Improvement of energy recovery from organic wastes by the biohydrogen followed by biobutanol fermentation using obligate anaerobes

17-19 Nov, 2016	International Conference on 21 st Century Energy Needs-Materials, System & Applications (ICTFCEN-2016), IIT Kharagpur	Hydrogen an Emerging Fuel of 21 st Century
4 April, 2015	UPES, Dehradun, India	Recent development of Biohydrogen production from organic wastes
15 June, 2015	Denmark Technical University, Denmark	High rate algal biomass production for food, feed, biochemicals and biofuels
13 April, 2015	TBES-2015, NIT Durgapur, India	Biohydrogen production processes from organic wastes: Present state of art
6 October, 2015	National Seminar on "Renewable Energy Senerio in India", IICB, Kolkata	Potentiality gaseous energy recovery from organic wastes by HYMET [®] process in India
11 December, 2015	Annual Convention, INOAE, Pune, India	Biohythane process for the maximization of the gaseous energy recovery from organic wastes
30 August, 2014	Alto University, Finland	Integration of acidogenesis and solventogenesis for maximum energy recovery
28 August, 2014	2 nd International Conference on Algal Biorefinery (ICAB-2014), Denmark	Carbon dioxide sequestration, hydrogen production and secondary metabolites extraction using <i>Chlorella sorokiniana</i>
13 June, 2014	2 nd International Conference on Sustainable Solid Waste Management, Athens	Recent advances of the biohydrogen production processes
8-12 June 2014	International Conference on Clean Energy (ICCE-2014), Istanbul, Turkey	Biohydrogen Production: An Approach towards the Commercialization
13 November, 2014	National Institute of Advanced Studies, Bangalore	Organic wastes in India's energy supply

— Sponsored Research Projects

MNRE	1992-1994	Two-stage biomethanation of MSW to improve bioleachate production and biogas generation
	2005-2008	Scale-up studies on production of hydrogen from <i>Enterobacter cloacae</i> IIT-BT 08
	2010-2016	Mission Mode Project on Hydrogen Production through Biological Routes
	2016-2019	Maximization of Gaseous Energy Recovery from Organic Wastes through Biohythane Process
DBT	1999-2001	Production of hydrogen as a cleaner fuel through waste recycling
	2001-2004	Improvement of hydrogen production by over expression of the hydrogenase producing gene of high yielding strain of <i>Enterobacter cloacae</i> IIT-BT 08 in fast growing <i>Escherichia coli</i>
	2004-2007	Improvement of hydrogen production from industrial wastes using hybrid

		Bioreactor Amelioration of hydrogen production from sewage sludge using <i>Enterobacter cloacae</i> IIT-BT 08
2006-2009		Maximization of Gaseous Energy Recovery by Simultaneous Biohydrogen Production and Biomethanation
2010-2014*		High rate Algal biomass Production for food, feed, biochemicals and biofuels
2014-2020		Maximization of zero carbon fuel generation from algal biomass Optimal design and scale-up photobioreactor for high density algal cell Production Development of suitable microalgae harvesting technology
DST-NSF*	2003-2007	Biohydrogen production by investigation on the hydrogenase coding gene of high yielding strain of <i>Enterobacter cloacae</i> IIT-BT 08 in fast growing <i>E coli</i>
DST-DAAD*	2004-2007	Studies on the Fe-hydrogenase genes of prokaryotes and eukaryotes for the improvement of hydrogen production
MHRD	2005-2007	Scale-up studies on the production of therapeutically important protein (FGF 8) by recombinant <i>E. coli</i>
	2017-2020	Mass Cultivation of Microalgae for the Production of High Value Bio-Fuel Fractions through Hydro-Thermal Liquefaction
Norwegian Ministry of Foreign Affairs*	2008-2011	BioCO ₂ : An integrated multidisciplinary project using solar energy for production of renewable hydrogen combined with CO ₂ capture, to address global warming and energy production
DRDO	2008-2011	Continuous hydrogen production in a photo bioreactor using spent medium of dark fermentation process
	2012-2014	Integrating large scale biohydrogen production and hydrogen fuel cell for sustainable power generation
	2013-2017	Improvement of energy recovery from waste water by dark fermentation followed by microbial fuel cells
BRNS	2009-2012	Design and Development of Microbial Fuel Cells

* International Sponsored Project

— Consultancy Projects

World Hydrogen Energy (WHE), USA	2002-2003	Pilot plant design of hydrogen generation system from sewage sludge
	2003-2004	Process design for a hydrogen production plant using the supernatant of the sludge treatment plant
IFB Agro Industries Ltd., Noorpur	2013	Calculation of alcohol loss in the Distillery Plant
Excise Commissioner, Govt. of West Bengal	2014	Study and Review of the Existing System of Measurement of Spirits in West Bengal

— Books

Biohydrogen Production: Fundamentals and Technology Advances	Debabrata Das, Namita Khanna and Chitralkha Nag Dasgupta	2014	CRC Press Boca Raton, FL	ISBN 9781466517998	408 pages
Algal Biorefinery: an Integrated Approach	Debabrata Das (Editor)	2015	Springer Switzerland	ISBN 9783319228129	489 pages
Biohythane: Fuel for the	Debabrata Das	2016	Pan Stanford	ISBN	319

Future	and Shantonu Roy		Publishing Pte. Ltd., Singapore	9789814745291	pages
Microbial Fuel Cell: A bioelectrochemical system that convert wastes to Watts	Debabrata Das (Editor)	2017	Springer Switzerland	ISBN 9783319667928	534 pages
Fundamentals of Biofuel Production Processes	Debabrata Das and Jhansi L. Varanasi	2019	CRC Press Boca Raton, FL	ISBN 9781351617512	268 pages
Biochemical Engineering: An Introductory Text Book	Debabrata Das and Debayan Das	2019	Jenny Stanford Publishing Pte. Ltd., Singapore	ISBN 9789814800433	484 pages
Biochemical Engineering: A Laboratory Manual	Debabrata Das and Debayan Das	2021	-do-	ISBN 9789814877367	248 pages
Industrial Biotechnology	Debabrata Das and Soumya Pandit	2021	CRC Press Boca Raton, FL	ISBN 9780367408886	470 pages

— Monograph

2010	Mohanty K, Das D and Biswas MN	Development of a Multi-stage External Loop Air-lift Reactor for Wastewater Treatment	VDM Verlag Pub., Saarbrucken, Germany	ISBN: 978-3-639-29875-8
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— Guest Editor of the Peer Reviewed Journals

2009	Guest Editor: Das Debabrata	Special issue of International Workshop on Biohydrogen Production Technology (IWBT 2008)	<i>International Journal of Hydrogen Energy</i>	Organized at: Indian Institute of Technology Kharagpur	34 (17), 7348-7560
2013	Guest Editor: Das Debabrata	Special issue of International Conference on Algal Biorefinery (ICAB 2013)	<i>Algological Studies</i>	Organized at: Indian Institute of Technology Kharagpur	143 (1), 2-87
2014	Guest Editors: Das Debabrata, M. Lakshmi Narasu and Krzysztof Urbaniec	Special issue of International Conference on Advances in Biohydrogen Production and Applications (ICABHPA 2012)	<i>International Journal of Hydrogen Energy</i>	Organized at: JNTUH, Hyderabad	39(14), 7467-7626

— Publication in the Peer Review Journals

2023	Mahata C, Dhar S, Ray S, Das D	Biohydrogen production from starchy wastewater in upflow anaerobic sludge blanket (UASB) reactor: Possibilities toward circular bioeconomy	<i>Environmental Technology & Innovation</i>	https://doi.org/10.1016/j.eti.2023.103044
	Pandit S, Sharma M, Banerjee S, Nayak BK, Das D, Khilari S, Prasad R	Pretreatment of cyanobacterial biomass for the production of biofuel in microbial fuel cell	<i>Bioresource Technology</i>	370, 128505
	Mahata C, Mishra S, Dhar S, Ray S, Mohanty K, Das D	Utilization of dark fermentation effluent for algal cultivation in a modified airlift photobioreactor for biomass and biocrude production	<i>Journal of Environmental Management</i>	330, 117121
	Roy K, Banerjee S, Hazra T, Das D, Pandit S, Lahiri D, Nag M, Ray RR, Sarkar T, Movendhan M, Kavisri M	Exopolysaccharide production by <i>Anabaena</i> sp. PCC 7120: physicochemical parameter optimization and two-stage cultivation strategy to maximize the product yield	<i>Biomass Conversion and Biorefinery</i>	https://doi.org/10.1007/s13399-022-03696-3
2022	Singh Harshita, Rout Swagatika, Das Debabrata	Dark fermentative biohydrogen production using pretreated <i>Scenedesmus obliquus</i> biomass under an integrated paradigm of biorefinery	<i>Int. J Hydrogen Energy</i>	47:102-116
	Basak Nitai, Jana AK, Das Debabrata	Photofermentative biohydrogen generation from organic acids by <i>Rhodobacter sphaeroides</i> O.U.001: CFD modelling of hydrodynamics and temperature	<i>Biotechnology and Applied Biochemistry</i>	69, 2, 783-797
2021	Ray Ausmita, Banerjee Sanjukta, Das Debabrata,	Microalgal bio-flocculation: present scenario and prospects for commercialization	<i>Environmental Science and Pollution Research</i>	28: 26294-26312
	Banerjee Srijoni, Desai Trunil S, Srivastava Shireesh, Das Debabrata,	¹³ C metabolic flux analysis (MFA) to find out the metabolic fluxes of biomass production and lipid accumulation in <i>Neochloris oleoabundans</i> UTEX 1185	<i>Journal of Applied Phycology</i>	33: 1399-1407
	Lal Amrit, Banerjee Sanjukta, Das	<i>Aspergillus</i> sp . assisted bioflocculation of <i>Chlorella</i> MJ 11/11 for the production of	<i>Separation and Purification</i>	

	Debabrata	biofuel from the algal-fungal co-pellet	<i>Technology</i>	167: 107898
	Radhakrishnan R, Banerjee S, Banerjee S, Singh V, Das D	Sustainable approach for the treatment of poultry manure and starchy wastewater by integrating dark fermentation and microalgal cultivation	<i>Journal of Material Cycles and Waste Management</i>	46: 3726-3741
2020	<i>Mahata Chandan, Dhar Suman, Ray Subhabrata, Das Debabrata</i>	Flocculation characteristics of extracellular polymeric substance (EPS) obtained from anaerobic sludge extracted by different methods on microalgae harvesting for lipid utilization	<i>Biochemical Engineering Journal</i>	167:107897
	<i>Santoshnambi Yadav, Singh Vaishali, Mahata Chandan, Das Debabrata</i>	Optimization for simultaneous enhancement of biobutanol and biohydrogen production	<i>International Journal of Hydrogen Energy</i>	284:119062
	<i>Banerjee Sanjukta, Ray Ayusmita, Das Debabrata</i>	Optimization of <i>Chlamydomonas reinhardtii</i> cultivation with simultaneous CO ₂ sequestration and biofuels production in a biorefinery framework	<i>Science of the Total Environment</i>	133: 110155
	<i>Mahata Chandan, Dhar Suman, Ray Subhabrata, Das Debabrata</i>	<i>Effect of thermal pretreated organic wastes on the dark fermentative hydrogen production using mixed microbial consortia</i>	<i>Fuel</i>	219:113047
	<i>Banerjee S, Banerjee S, Ghosh A and Das D</i>	<i>Maneuvering the genetic and metabolic pathway for improving biofuel production in algae: Present status and future prospective</i>	<i>Renewable and Sustainable Energy Reviews</i>	43: 1487-1497
	<i>Mahata C, Ray S and Das D</i>	Optimization of dark fermentative hydrogen production from organic wastes using acidogenic mixed consortia	<i>Energy Conversion and Management</i>	263: 116696
	<i>Banerjee S, Dasgupta S, Das D and Atta A</i>	Influence of photobioreactor configuration on microalgal biomass production	<i>Bioprocess and Biosystems Engineering</i>	450:227679
	<i>Varanasi Jhansi L, Prasad Sanjoy, Singh Harshita, Das Debabrata</i>	Improvement of bioelectricity generation and microalgal productivity with concomitant wastewater treatment in flat-plate microbial carbon capture cell	<i>Fuel</i>	45: 5202-
	<i>Rout Swagatika,</i>			

	Parwaiz Shaikh , Nayak Arpan K, Varanasi Jhansi L, Pradhan Debabrata, Das Debabrata	Improved bioelectricity generation of air-cathode microbial fuel cell using sodium hexahydroxostannate as cathode catalyst	<i>Journal of Power Sources</i>	5215 45: 5227-5238
	Balachandar G, Varanasi Jhansi L, Singh Vaishali, Singh Harshita, Das Debabrata	Biological hydrogen production via Dark fermentation: A holistic approach from Lab-scale to Pilot-scale	<i>International Journal of Hydrogen Energy</i>	45:5202-5215
	Varanasi J L and Das D	Maximizing biohydrogen production from lignocellulosic biomass by coupling dark fermentation and electrohydrogenesis	<i>International Journal of Hydrogen Energy</i>	45:5227-5238
2019	Banerjee S, Singh H, Das D and Atta A	Process optimization for enhanced biodiesel production by <i>Neochloris oleoabundans</i> UTEX 1185 with concomitant CO ₂ sequestration	<i>Industrial & Engineering Chemistry Research</i>	58 (35): 15760-15771
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