Debabrata Das CURRICULUM VITÆ

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(h-index: 52, i-10 index: 136)



- 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. GopalakrishnanThesis: 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

- Teaching Experience

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-till date Associate Faculty School of Energy Science & Eng., 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

-NPTEL Web based courses taught

- 2017 (12 weeks) Industrial Biotechnology
- 2018 (12 weeks) Aspects of Biochemical Engineering
- 2018 (12 weeks) Industrial Biotechnology

2019 (12 weeks) Industrial Biotechnology

- GIAN Web based courses taught

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

- 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

- Courses Taught

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

Fellow, West Bengal Academy of Science and Technology (WAST)
Fellow, Biotechnology Research Society of India (BRSI)
Fellow, Institute of Engineers (India) (IE)
Fellow, Indian National Academy of Engineers (INAE)
Fellow, International Association of Hydrogen Energy (IAHE)

2002Best paper award in Biotechnology Session of CHEMCON2019Facilitated by Biological Engineering Society (BES)at IIT Madras for the
long-standing contribution in the area of Biological Engineering

- 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

- 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 Badyopadhayay	Microbial degradation of phenolic waste
2001 2003 2004	Narendra Kumar David K. Daniel Jayshree Mishra	Hydrogen production by <i>Enterobacter cloacae</i> IIT-BT08 Studies on glucoamylase fermentation by <i>Aspergillus awamori</i> NRRL 3112 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	NamitaKhanna	Strain development and determination of suitable process parameters for maximization of hydrogen production using Enterobacter cloacae 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 Bikram K. Nayak	Improvement of algal biomass production for the enhancement of biodiesel yield from <i>Chlorella</i> sp. MJ 11/11 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
	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
2020	Srijoni Banerjee	Development of suitable process parameters for enhanced biodiesel production from <i>Neochloris oleoabundans</i> UTEX 1185

* 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

Patent filed

- Earthen material based cathode separator assembly for scalable bioelectrochemical system (Patent Application No.805/KOL/2013).
- Development of cost effective membrane cathode assembly for a single chambered microbial fuel cell. (Patent Application No.1302/KOL/2013).
- A system for simultaneous treatment of wastewater and wastegas using a microbial carbon capture cell reactor (Patent Application No. 0471/KOL/2015)
- Development of a novel microbial fuel cell (Application no. 21435)

- 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"	

- Selected Plenary / Invited Lectures Delivered in the last 4 years

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	Biohythane: Fuel for the Future
2-3 January, 2020	Indo-U.S. Interdisciplinary Workshop at IIT Kharagpur on 'Sustainable Biorefinery for Waste Valorization'	Biohythane: An integrated approach for maximum gaseous energy recovery from organic wastes
25–30 November,	AICTE-QIP course at IIT Kharagpur on	Biohydrogen production from organic wastes

2019 14-16 November, 2019	"Waste to Wealth - the Paradigm, Practice and Potential" 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 17 October, 2019	Biological Engineering Society (BESCON- 2019, IIT Madras DBT National Workshop on Bioenergy, IIT Kharagpur, Kolkata	Improvement of gaseous energy generation from organic wastes by Biohythane process Biochemical Based Biomass to Hydrogen Generation
19-20 September, 2019	National Workshop on Hydrogen Generation Technologies, IISc, Bangalore	Biohythane: An integrated approachfor maximization of gaseous energy recovery from organic wastes
5-6 September, 2019	Indo-US joint workshop ;Recent Advances in Advanced Biofuel Technologies; 'Biohydrogen, Fuel Cell & Biobutanol, TERI, New Delhi	organie wastes
23 October, 2018	2 nd Bharatna Dr. A.P.J. Abdul Kalam Memorial Lecture, IIChE, IIT Kharagpur	Biohythane - A future fuel
17-23 June, 2018	World Hydrogen Energy Convention (WHEC 2018), Rio de Janerio, 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	Tsinghua University, Beijing, China	Series of lectures
30 March, 2017	International Conference on Trends and Advanced Research in. Green Energy Technologies,ICTARGET-2017	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 13 April, 2015	Denmark Technical University, Denmark TBES-2015, NIT Durgapur, India	High rate algal biomass production for food, feed, biochemicals and biofuels 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, INAE, 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 Enterobacter cloacae 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
	2014-2019	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-NS	F* 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-DA	AD* 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
Norweg	gian 2008-2011	BioCO ₂ : An integrated multidisciplinary project using solar energy for
Ministr	y of	production of renewable hydrogen combined with CO2 capture, to address
Foreign	Affairs*	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 Chitralekha 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 Future	Debabrata Das and Shantonu Roy	2016	Pan Stanford Publishing Pte. Ltd., Singapore	ISBN 9789814745291	319 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	Debabrata Das	2019	CRC Press	ISBN	268

Biocher	tion Processes mical Engineering: An ctory Text Book	and Jhans Varanasi Debabrata and Deba	a Das	2019	Boca Raton, FL Jenny Stanford Publishing Pte. Ltd., Singapore	9781351617512 ISBN 9789814800433	pages 484 pages
— Mo	— Monograph						
2010	Mohanty K, Das D a Biswas MN	nd	Externa		a Multi-stage -lift Reactor reatment	VDM Verlag Pub., Saarbrucken, Germany	ISBN: 978-3- 639-29875-8

- Guest Editor of the Peer Reviewed Journals

2009	Guest Editor: Das Debabrata	Special issue of International Workshop on Biohydrogen Production Technology (IWBT 2008)	International Journal of Hydrogen Energy	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)	Algological Studies	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)	International Journal of Hydrogen Energy	Organized at: JNTUH, Hyderabad	39(14), 7467- 7626

- Publication in the Peer Review Journals

2020	Varanasi Jhansi L, Prasad Sanjoy, Singh Harshita, Das Debabrata	Improvement of bioelectricity generation and microalgal productivity with concomitant wastewater treatment in flat-plate microbial carbon capture cell	Fuel	263: 116696
	Rout Swagatika, Parwaiz Shaikh , Nayak Arpan K, Varanasi Jhansi L, Pradhanb Debabrata, Das	Improved bioelectricity generation of air- cathode microbial fuel cell using sodium hexahydroxostannate as cathode catalyst	Journal of Power Sources	450:227679

Debabrata

	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	International Journal of Hydrogen Energy	45: 5202- 5215
	Varanasi J L and Das D	Maximizing biohydrogen production from lignocellulosic biomass by coupling dark fermentation and electrohydrogenesis	International Journal of Hydrogen Energy	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	Industrial & Engineering Chemistry Research	DOI: 10.1021/acs.i ecr.8b05730
	Banerjee S, Rout S, Banerjee S, Atta A and Das D	Fe ₂ O ₃ nano catalyst aided transesterification for biodiesel production from lipid - intact wet microalgal biomass : A biorefinery approach	Energy Conversion and Management	195:844-853
	Das D	Commercialization of biohydrogen production process from distillery effluent	International Journal of Hydrogen Energy	44:18657- 18658
	Veerubhotla R, Das D, and Nag S Singh	Internet of Things temperature sensor powered by bacterial fuel cells on paper	Journal of Power Sources	438: 226947
	Vaishali, Singh Harshita, and Das Debabrata	Optimization of the medium composition for the improvement of hydrogen and butanol production using Clostridium saccharoperbutylacetonicum DSM	International Journal of Hydrogen Energy	44: 26905- 28919
	Singh Harshita, Varanasi Jhansi L. Banerjee Srijoni and Das Debabrata	Production of carbohydrate enrich microalgal biomass as a bioenergy feedstock	Energy	188: 116039 (<u>https://doi.or</u> g/10.1016/j.e nergy.2019.1 <u>16039</u>)
	Varanasi Jhansi L, Prasad Sanjoy, Singh Harshita, Das Debabrata	Improvement of bioelectricity generation and microalgal productivity with concomitant wastewater treatment in flat-plate microbial carbon capture cell	Fuel	263: 116696 https://doi.o rg/10.1016/j .fuel.2019.1 16696
2018	Varanasi JL, Kumar	i S and Improvement of energy	International	43: 1303-

	Das D	recovery from water hyacinth by using integrated system	Journal of Hydrogen Energy	1318
	Rout S, Nayak AK, Varanasi JL, Pradhan P and Das D	Enhanced energy recovery by manganese oxide/reduced graphene oxide nanocomposite as an air- cathode electrode in the single-chambered microbial fuel cell	Journal of Electroanalytical Chemistry	815: 1-5
	Kumari S, Das D	Biohythane production from sugarcane bagasse and water hyacinth: a way towards promising green energy production	Journal of Cleaner Production	207: 689-701
	Lal Amrit, Ghosh Supratim, and Das Debabrata	Improvement in electrically induced biomass harvesting of Chlorella sp. MJ 11/11 for bulk biomass production	Journal of Applied Phycology	30: 979-993
2017	Ghosh Supratim, Roy Shantonu, and Das Debabrata	Enhancement in lipid content of <i>Chlorella</i> sp. MJ 11/11 from the spent medium of thermophilic biohydrogen production process	Bioresource Technology	223: 219-226
	Varanasi JL, Sinha Pallavi and Das D	Maximizing power generation from dark fermentation effluents in microbial fuel cell by selective enrichment of exoelectrogens and optimization of anodic operational parameters	Biotechnology Letters	39:721-730
	Mitra R, Balachandar G., Singh V, Sinha P and Das D	Improvement in energy recovery by dark fermentative biohydrogen followed by biobutanol production process using obligate anaerobes	International Journal of Hydrogen Energy	42: 4880- 4992
	Ramya Veerubhotla, Debabrata Das, Debabrata Pradhan	A Flexible and Disposable Battery Powered by Bacteria Using Eyeliner Coated Paper Electrodes	Biosensors and Bioelectronics	94: 464-470
	Kumari S, Das D	Improvement of biohydrogen production using acidogenic culture	International Journal of Hydrogen Energy	42: 4083- 4094
	Mishra Preeti, Balachandar G. and Das Debabrata	Improvement in biohythane production using organic solid waste and distillery effluent	Waste Management	66: 70-78

	Ghosh Supratim, Banerjee Srijoni and Das Debabrata	Process intensification of biodiesel production from <i>Chlorella</i> sp. MJ 11/11 by single step transesterification	Algal Research	27: 12-20
	Das Debabrata	A Road Map on Biohydrogen Production from Organic Wastes	INAE Letters	2:153-160
2016	Kumar Kanhaiya, Ghosh Supratim, Angelidaki Irini , Holdt Susan L., Karalkashev Dimitar B., Morales Merlin Alvarado and Das Debabrata	Recent developments on biofuels production from microalgae and macroalgae	Renewable & Sustainable Energy Reviews	65: 235-249
	Sinha Pallavi, Gaurav Kartik, Roy Shantonu, Balachandar G and Das Debabrata	Improvement of biohydrogen production with novel augmentation strategy using different organic residues	International Journal of Hydrogen Energy	41: 14015- 14025
	Sinha Pallavi, Roy Shantonu and Das Debabrata	Genomic and Proteomic approaches for dark fermentative biohydrogen production	Renewable & Sustainable Energy Reviews	56: 1308- 1321
	Shantonu Roy, Debabrata Das	Biohythane production from organic wastes: Present state of art	Environmental Science and Pollution Research	23: 9391– 9410
	Lal A and Das D	Biomass production and identification of suitable harvesting technique for Chlorella sp. MJ 11/11 and <i>Synechocystis</i> PCC 680	3 Biotechnology	6, 1-10
	Chakraborty S, Mohanty D, Ghosh, S, and Das D	Improvement of lipid content of Chlorella minutissima MCC 5 for biodiesel production,	Journal of Bioscience and Bioengineering	<i>122:</i> 294–300
	Basak N, Jana AK and Das D	CFD modeling of hydrodynamics and optimization of photofermentative hydrogen production by <i>Rhodopseudomonas</i> <i>palustris</i> DSM123 in annular photobioreactor	International Journal of Hydrogen Energy	41: 7301- 7317
	Varanasi JL, Nayak AK, Sohn Y, Pradhan D and Das D	Improvement of power generation of microbial fuel cell by integrating tungsten oxide electrocatalyst with pure or	Electrochimica Acta	199: 154–163

mixed culture biocatalysts

	Kumari Sinu and Das Debabrata Das	Biologically pretreated sugarcane top as a potential raw material for the enhancement of gaseous energy recovery by two stage biohythane process	Bioresource Technology,	218: 1090- 1097
	Kumar Anaparthi Ganesh, Bera Debaditya, Banerjee Susanta, Ramya V, and Das Debabrata	Sulfonated poly(ether imide)s with fluorenyl and trifluoromethyl groups: Application in microbial fuel cell (MFC),	European Polymer Journal	83: 114-128
	Das D	Improvement of gaseous energy recovery from organic wastes using biohythane process	Journal of Bioprocessing & Biotechniques	6, 45
2015	Ghosh S, Roy S and Das D	Improvement of Biomass Production by <i>Chlorella sp.</i> MJ 11/11 for Use as a Feedstock for Biodiesel	Applied Biochemistry and Biotechnology	175:3322- 3335
	Pandit S, Khilari S, Roy S, Ghangrekar M. M., Pradhan D, Das D	Reduction of start-up time through bioaugmentation process in microbial fuel cells using a newly isolated microbial strain in anode	Water Science and Technology	72.1: 106- 115
	Varanasi J L, Roy S, Pandit S, Das D	Improvement of energy recovery from cellobiose by thermophillic dark fermentative hydrogen production followed by microbial fuel cell	International Journal of Hydrogen Energy	40: 8311- 8321
	Veerubhotla Ramya, Bandopadhyay Aditya, Das Debabrata and Chakraborty Suman	Instant power generation from an air-breathing paper and pencil based bacterial bio-fuel cell	Lab on a Chip	15: 2580- 2583
	Sinha Pallavi, Roy Shantonu, Das Debabrata	Role of formate hydrogen lyase complex in hydrogen production in facultative anaerobes	International Journal of Hydrogen Energy	40: 8806- 8815
	Roy Shantonu, Banerjee Debopam, Dutta Mainak, Das Debabrata	Metabolically redirected biohydrogen pathway integrated with biomethanation for improved gaseous energy recovery	Fuel	158: 471-478

	Dev Subhabrata, Roy Shantonu , Das Debabrata, Bhattacharya Jayanta	Improvement of Biological Sulfate Reduction by Supplementation of Nitrogen Rich Extract Prepared from Organic Marine Wastes	International Biodeterioration & Biodegradation	104: 264-273
	Kumari Sinu and Das Debabrata	Improvement of gaseous energy recovery from sugarcane bagasse by Dark fermentation followed by Biomethanation process	Bioresource Technology	194: 354-363
	Das B K, Roy S, Dev S, Das D and Bhattacharya J	Improvement of the degradation of sulphate rich waste water using sweetmeat waste (SMW) as nutrient supplement	Journal of Hazardous Materials	300: 796-807
	Khilari Santimoy, Pandit Soumya, Varanasi Jhansi L., Das Debabrata, and Pradhan Debabrata	Bifunctional Manganese Ferrite/Polyaniline Hybrid as Electrode Material for Enhanced Energy Recovery in Microbial Fuel Cell	ACS Applied Materials and Interfaces	7: 20657–20666
	Mishra Preeti, Roy Shantonu, Das Debabrata	Comparative evaluation of the hydrogen production by mixed consortium, synthetic co- culture and pure culture using distillery effluent	Bioresource Technology	198: 593–602
2014	Pandit A, Khilaro S, Bera K, Pradhan D, and Das D	Application of PVA-PDDA polymer electrolyte composite anion exchange membrane separator for improved bioelectricity production in a single chambered microbial fuel cell	Chemical Engineering Journal	257: 138-147
	Kumar K, Nag Dasgupta C and Das D	Cell growth kinetics of Chlorella sorokiniana and nutritional values of its biomass	Bioresource Technology	167:358-366
	Basak N, Jana AK and Das D	Optimization of molecular hydrogen production by Rhodobacter sphaeroides O.U.001 in the annular photobioreactor using response surface methodology	International Journal of Hydrogen Energy	39: 11889- 11901
	Pandit A, Khilaro S, Pradhan D, and Das D	Improvement of power generation using Shewanella putrefaciens mediated	Bioresource Technology	166: 451-457

	bioanode in a single chambered Microbial Fuel Cell: Effect of different anodic operating conditions		
Eldin J, Kumar K and Das D	Physicochemical parameters optimization and purification of phycobiliproteins from the isolated <i>Nostoc</i> sp.,	Bioresource Technology	166: 541-547
Das D and Laksmi Narasu M.	Forward of International Conference on Advances in Biological Hydrogen Production and Applications (ICABHPA 2012),	International Journal of Hydrogen Energy	39: 7467
Kumar K, Banerjee D and Das D	Carbon dioxide sequestration from industrial flue gas by, Chlorella sorokiniana	Bioresource Technology	152: 225-233
Ghadge A, Pandit A, Das D and Ghangrkar M M	Performance of Air Cathode Earthen Pot Microbial Fuel Cell for Simultaneous Wastewater Treatment with Bioelectricity Generation	International Journal of Environmental Technology and Management,	17: 143-153
Roy S, Vishnuvardhan M and Das D	Improvement of hydrogen production by thermophilic isolate Thermoanaerobacterium thermosaccharolyticum IIT BT- ST1	International Journal of Hydrogen Energy	39: 7541- 7552
Mishra P and Das D	Biohydrogen production from Enterobacter cloacae IIT- BT 08 using distillery effluent	International Journal of Hydrogen Energy	39: 7496- 7507
Pandit A, Patel V, Ghangrkar M M and Das D	Wastewater as anolyte for bioelectricity generation in graphite granule anode single chambered microbial fuel cell: effect of current collector	International Journal of Environmental Technology and Management	17: 252-267
Pandit S, Balachandar G and Das D	Improvement of energy recovery from cane molasses by dark fermentation followed by microbial fuel cells	Frontiers of Chemical Science and Engineering	8: 43-54
Khilaro S, Pandit S, Das D and Pradhan D.	Manganese cobaltite/polypyrrole nanocomposite-based air- cathode for sustainable power generation in the single-	Biosensors and Bioelectronics	54:534-540

		chambered microbial fuel cells		
	Roy S, Kumar K, Ghosh S and Das D	Thermophilic biohydrogen production using pretreated algal biomass as substrate	Biomass and Bioenergy	61:157-166
	Nayak BK, Roy S and Das D	Biohydrogen production from algal biomass (Anabaena sp. PCC 7120) cultivated in airlift photobioreactor	International Journal of Hydrogen Energy	39: 7553- 7560
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