

BIO-DATA

NAME : **Dr. PANGKITA DEKA**

Father's Name : Jogesh Deka

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Date of Birth : 01 Feb, 1988

Gender : Female

Marital Status : Unmarried

Religion : Hindu

Nationality : Indian

Linguistic skills : *Speak:* English, Hindi, Assamese
Write: English, Hindi, Assamese

EDUCATIONAL DETAILS

Exam./Degree	Board/University	Institute	Year of passing	(%) of marks
HSLC	SEBA	P. K. B. High School, Kamrup	2003	69.8
HS (Science)	AHSEC	Pub Kamrup College, Kamrup	2006	66.0
B.Sc. in Chemistry (M)	Gauhati University, Assam	Pandu College, Kamrup (M)	2009	54.6
M.Sc. in Applied Chemistry (Specialization: Catalysis)	Tezpur University, Assam	Tezpur University, Assam	2011	78.2
Ph.D. in Chemical Sciences (Experimental Chemistry)	Tezpur University, Assam	Tezpur University, Assam	2017	--

Doctoral thesis details

Title: “*Synthesis of transition metal oxide-based nanostructures and their catalytic activity*”
Supervisor: **Prof. Ramesh Chandra Deka**, Tezpur University, Assam.

PUBLICATIONS (*List of papers published in SCI Journals, in year wise descending order*)

Sl. No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1	Ramesh Chandra Deka, Ajanta Deka, Pangkita Deka , Sudakhina Saikia, Julie Baruah and Plaban Jyoti Sarma	Recent advances in nanoarchitectonics of SnO ₂ clusters and their applications in catalysis	Journal of Nanoscience and Nanotechnology	20	1 – 9	2020
2	Pangkita Deka , Biraj Jyoti Borah, Himadri Saikia and Pankaj Bharali	Cu-based nanoparticles as emerging environmental catalysts	The Chemical Record	19	462 – 473	2019
3	Sameeran Kumar Das, Pangkita Deka , Monikha Chetia, Ramesh Chandra Deka, Pankaj Bharali and Utpal Bora	Spherical CuO nanoparticles as catalyst for Chan–Lam cross coupling reaction under base free condition	Catalysis Letter	148	547 – 554	2018
4	Pangkita Deka , Pingal Sarmah, Ramesh Chandra Deka and Pankaj Bharali	Hetero-nanostructured Ni/ α -Mn ₂ O ₃ as highly active catalyst for aqueous phase reduction reactions	ChemistrySelect	1	4726 – 4735	2016
5	Pangkita Deka , Anil Hazarika, Ramesh Chandra Deka and Pankaj Bharali	Influence of CuO morphology on enhanced catalytic degradation of methylene blue and methyl orange	RSC Advances	6	95292 – 95305	2016
6	Pangkita Deka , Rimjim Choudhury, Ramesh Chandra Deka and Pankaj Bharali	Influence of Ni on enhanced catalytic activity of Cu/Co ₃ O ₄ towards reduction of nitroaromatic compounds: Studies on the reduction kinetics	RSC Advances	6	71517 – 71528	2016
7	Pangkita Deka , Ramesh Chandra Deka and Pankaj Bharali	Porous CuO nanostructure as reusable catalyst for oxidative degradation of organic water pollutants	New Journal of Chemistry	40	348 – 357	2016
8	Pangkita Deka , Ramesh Chandra Deka and Pankaj Bharali	In-situ generated copper nanoparticle catalyzed reduction of 4-nitrophenol	New Journal of Chemistry	38	1789 – 1793	2014
9	Pingal Sarmah, Pangkita Deka , Ramesh Chandra Deka and Pankaj Bharali	Catalytic reduction of 4-nitrophenol to 4-aminophenol over CuNi alloy particles: Synthesis, characterization and application	Bulletin of the Catalysis Society of India	12	54–59	2013

Books/Reports/Chapters/General articles etc. (Book Chapters)

Sl. No.	Title	Author's Name	Publisher	Year of Publication
1	Copper(II) oxide nanostructures for wastewater treatment	Pangkita Deka , Abhijit Mahanta, Sudakhina Saikia, Ramesh Chandra Deka and Pankaj Bharali	EBH Publisers, Guwahati, Assam, India	2018
2	Catalytic reduction of water-contaminant '4-nitrophenol' over manganese oxide supported Ni nanoparticles	Pangkita Deka , Debajyoti Bhattacharjee, Pingal Sarmah, Ramesh Chandra Deka and Pankaj Bharali	Capital Publishers, New Delhi and co-published by Springer International Publishing, Cham, Switzerland	2017

WORK EXPERIENCE (in chronological order)

Sl. No.	Positions held	Name of the Institute	From	To
1	Research Associate (Post-doctoral)	Tezpur University	18.07.2017	31.03.2020
2	Teaching Assistant	Tezpur University	15.07.2013	15.12.2013
3	Teaching Assistant	Tezpur University	15.07.2012	15.12.2012

***Post-doctoral project title:** *“Continuous flow reaction-An attempt to miniaturization of some pharmaceutical processes”*

Professional Recognition/ Award/ Prize/ Certificate, Fellowship

Sl. No.	Name of Award	Awarding Agency	Year
1	Junior Research Fellowship	Department of Science and Technology, New Delhi, INDIA	2013–2016
2	DST-ITS Travel Grant	Department of Science and Technology, New Delhi, INDIA	2019

PROGRAMME/SCHOOL etc. (Attended)

In Abroad

- “Catalysis: Fundamentals and Practice” Summer School, at **University of Liverpool, Liverpool, United Kingdom, 15th -19th July, 2019.** (Attended and Presented Poster)
- Exchange Programme of “DST-RFBR project” at **Boreskov Institute of Catalysis, Novosibirsk, Russia, 6th-22nd March, 2016.**

In Nation

- Orientation Programme in “Catalysis Research” at **NCCR, IIT Madras, Chennai, 19th November-6th December, 2011.**

CONFERENCE/SEMINAR/ SYMPOSIUM etc. (Presented)

Oral

- “ETCS-2020” International Conference on Emerging Trends in Chemical Sciences at Gauhati University, Assam, India, 13th-15th February, 2020.
- “ICNAN ’19” an 2nd International Conference on Nanoscience and Nanotechnology at VIT, Vellore, Tamilnadu, India, 29th November-1st December, 2019.
- “OrganiX-2018” an International Conference in Chemistry at Tezpur University, Assam, India, 20th-21st December, 2018.
- National Conference on “Nanomaterials Science, Technology and Applications (NAMASTA)” at Dibrugarh University, Dibrugarh, Assam, India, 10th-11st November, 2017.
- National Seminar on ‘Recent Developemems in Chemistry” at St. Mary’s College, Shillong, Meghalaya, 12th-13th July, 2017.
- The 1st International Forum on “Asian Water Environment Technology (IFAWET)” at Jawaharlal Nehru University, New Delhi, India, 18th-20th December, 2013.
- National Seminar on “Emerging Trends in Chemistry and Technology” at Bajali College, Pathsala, Assam, India, 27th-28th June, 2013.

Poster

- “SAIS symposium 2019” Symposium of School of Applied and Interdisciplinary Sciences at IACS, Kolkata, West Bengal, India, 8th-9th March, 2019.
- International Conference on “Recent Trends in Materials Science and Technology 2018 (ICMST 2018)” at Veli, Thiruvananthapuram, Kerala, India, 10th-13th October, 2018.
- International Conference on “Advancement in Science and Technology 2018 (ICAST-2018)” at Visva-Bharati, Santiniketan, West Bengal, India, 3rd-4th September, 2018.

- “20th CRSI National Symposium in Chemistry and 11th CRSI-RSC Symposium” at Gauhati University, Guwahati, Assam, India, 2nd-5th February, 2017.
- “Materials Research Society of India (MRSI) Symposium & 27th Annual General Meeting of MRSI” at NEIST, Jorhat, Assam, India, 18th-20th February, 2016.
- “Contemporary Developments in Chemical Sciences-2015 (CDCS)” at Tezpur University, Napaam, Tezpur, Assam, India, 23th-24th November, 2015.
- An International Symposium on “Recent Advances in Chemistry (REACH)” at NEHU, Shillong, India, 3th-5th March, 2015.
- National Seminar on “Recent Trends in Fundamental and Applied Chemical Sciences (RTFACS)” at Dibrugarh University, Dibrugarh, Assam, India, 19th-21st November, 2014.
- “8th Mid-Year CRSI National Symposium in Chemistry (CRSI)” at NEIST, Jorhat, Assam, India, 10th-12th July, 2014.
- National Seminar on “Recent Advances in Chemical Research (RACR-14)” at Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh, India, 20th-21st March, 2014.
- National Conference on “Chemistry, Chemical Technology and Society” at Tezpur University, Napaam, Tezpur, Assam, India, 11th-12th November, 2011.

Workshop/Symposium (Attended)

- One week workshop on “Analytical Techniques in Chemical Sciences” **UGC-SAP (DRS-II) and Tezpur University, Assam** sponsored at Department of Chemical Sciences, Tezpur University, Assam, 20th -25th January, 2020.
- Workshop on “Nuclear Magnetic Resonance (NMR)” at Department of Chemical Sciences, Tezpur University, Assam, 13th October, 2017.
- User Awareness Programme on “Access to E-Resources” at Central Library, Tezpur University, Tezpur, 19th-20th May, 2014.
- “20th National Magnetic Resonance Society Symposium cum Annual Meeting” at Department of Chemical Sciences, Tezpur University, Tezpur, 2nd-5th February, 2014.
- Indo-Finnish Workshop on “Green Chemistry” at Department of Energy, Tezpur University, Tezpur, 13th-14th December, 2013.
- Indo-Finnish Symposium on “Role of Catalyst on Production of Green Fuel” at Department of Energy, Tezpur University, Tezpur, 1st February, 2013.

RESEARCH EXPERIENCE

- Successfully completed Ph. D Course work (credits 17) on:
 - Advanced instrumental methods in Chemistry (Credits 3)
 - Green Chemistry (Credits 3)
 - Computational Chemistry (Credits 3)
 - Research Methodology (Credits 4)
 - Internalizing intellectual property rights (Credits 4)
- M.Sc. Project on the Topic “A study on the pH dependent degradation kinetics of curcumin in aqueous nonionic micellar solution” (Duration: Six months)

INSTRUMENT HANDLED

- UV-visible spectroscopy (UV-2550; Shimadzu Corporation, Japan)
- BET surface area analyzer (NOVA 1000e; Quantachrome Instruments, Japan)
- Catalyst microwave synthesizer
- Rotary evaporator (Heidolph Instruments, Germany)
- Electric vacuum oven
- Electric/digital pH meter
- Centrifugation machine

REFERENCES

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Declaration

I hereby declare that all the above mentioned facts and information are true to best of my knowledge.
I will solely be responsible for any discrepancy found in them.

Place: Barhata

Date: 18/02/2020

(Pangkita Deka)