BIO-DATA

- Name and full correspondence address
 Dr. DIPSIKHA KALITA, Assistant Professor Grade II, School of Community Science and Technology, Indian Institute of Engineering Science and Technology (IIEST), Howrah, West Bengal 711103
- 2. Email(s) and contact number(s): dipsikha@socsat.iiests.ac.in
- 3. Institution: Indian Institute of Engineering Science and Technology (IIEST), Howrah
- 4. Date of Birth: 01 March 1989
- 5. Gender (M/F/T): Female
- 6. Category Gen/SC/ST/OBC: Gen
- 7. Whether differently abled (Yes/No): No
- 8. Academic Qualification (Undergraduate Onwards)

Examination Passed Subject / Specialization/ Board / Univ. B. Sc. Biotechnology, Zoology and Chemistry Bangalore University M. Tech. Food Processing Technology Tezpur University Ph. D. Food Engineering and Technology Tezpur University

9. Work experience (in chronological order).

Positions held	Name of the Institute	From	To
DBT-Research Associate	IIT Kharagpur, India	01.07.2021	31.01.2023
Institute Post-	IIT Guwahati, India	20.08.2018	31.05.2021
doctoral fellow ssistant Professor (Temporary)	IIEST Shibpur, India	03.02.2023	14.08.2023
S	loctoral fellow sistant Professor	loctoral fellow sistant Professor IIEST Shibpur, India	loctoral fellow sistant Professor IIEST Shibpur, India 03.02.2023

10. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

Name of the Test	Name of the organization	Month & Year	Subject
Direct-Senior Research	Council of Scientific & Industrial	2014-2015	Food Process
Fellowship	Research, Ministry of Science and		Engineering
(Ph.D. Research)	Technology, Govt. of India		
National Eligibility Test	Indian Council of Agricultural	Aug 2016	Food Technology
(Professorship)	Research, New Delhi, India		

- 11. Publications (List of papers published in SCI Journals, in year wise descending order).
- 1. Begum, A., **Kalita, D**., Bhattacharya, S., & Srivastava, B. (2023). Time-dependent rheological behavior of pineapple pulp foam and its relationship with foaming properties and quality attributes of dried powder. Journal of Food Engineering, 336, 111208. [**IF: 6.20**]
- 2. Kamruzzaman, M., Kalita, D., Ahmed, M. T., ElMasry, G., & Makino, Y. (2021). Effect of variable selection algorithms on model performance for predicting moisture content in biological materials using spectral data. *Analytica Chimica Acta*, 339390. (In press) [IF: 6.55]
- 3. <u>Kalita, D.</u>, Jain, S., Srivastava, B., & Goud, V. V. (2021). Sono-hydro priming process (ultrasound modulated hydration): Modelling hydration kinetic during paddy germination. *Ultrasonics*Sonochemistry, 70, 105321. https://doi.org/10.1016/j.ultsonch.2020.105321. [IF: 9.33]
- 4. Purohit, S., Barik, C. R., <u>Kalita, D.</u>, Sahoo, L., & Goud, V. V. (2021). Exploration of nutritional, antioxidant and antibacterial properties of unutilized rind and seed of passion fruit from Northeast India. Journal of Food Measurement and Characterization, 1-15. https://doi.org/10.1007/s11694-021-00899-6. [IF: 3.00]
- Purohit, S., <u>Kalita, D</u>., Barik, C. R., Sahoo, L., & Goud, V. V. (2021). Evaluation of thermophysical, biochemical and antibacterial properties of unconventional vegetable oil from Northeast India. Materials Science for Energy Technologies, 4, 81-91. https://doi.org/10.1016/j.mset.2021.01.004. Peer reviewed Science Direct
- 6. <u>Kalita, D.</u>, Bhattacharya, S., & Srivastava, B. (2018). Interrelation between thermal behaviour and pasting properties of malted rice using multivariate analysis. Thermochimica Acta, 670, 155-168. https://doi.org/10.1016/j.tca.2018.10.008. **[IF:3.37**]
- 7. <u>Kalita, D.</u>, Bhattacharya, S., & Srivastava, B. (2018). Predicting enzymatic starch hydrolysis mechanism during paddy malting by vibrational spectroscopy and multivariate calibration analysis. *Food chemistry*, 259, 89-98. https://doi.org/10.1016/j.foodchem.2018.03.094. [IF: 9.23]

- 8. <u>Kalita, D.</u>, Sarma, B., & Srivastava, B. (2017). Influence of germination conditions on malting potential of low and normal amylose paddy and changes in enzymatic activity and physico chemical properties. *Food chemistry*, *220*, 67-75. https://doi.org/10.1016/j.foodchem.2016.09.193 [**IF: 9.23**]
- 9. Hmar, B. Z., <u>Kalita, D.</u>, & Srivastava, B. (2017). Optimization of microwave power and curing time of turmeric rhizome (Curcuma Longa L.) based on textural degradation. *LWT-Food Science and Technology*, 76, 48-56. https://doi.org/10.1016/j.lwt.2016.10.044. [IF: 6.05]
- 10. Mishra, P., & <u>Kalita, D</u>. (2017). Assessment of pre-treatment of edible coatings prepared from gelatine and polyphenols (extracted under optimized conditions from amla fruit powder) on stability of banana chips. *Acta Alimentaria*, 46(2), https://doi.org/10.1556/066.2017.46.2.9. [IF:0.65]

12. Detail of patents.

SN	Patent	Title	Name	e of	Patent	Award	Agency/	Status
			Applica	nt(s)	No.	Date	Country	
1.	Process	for	Dr.	Brijesh	366731	15.05.2021	India	Granted
	manufacture	e of	Srivastava,	Baby				
	turmeric	powder	Z. Hmar, <u>D</u>	<u> Dipsikha</u>				
	from raw	turmeric	<u>Kalita</u>					
	rhizomes							

13. Books/Reports/Chapters/General articles etc.

Sl.	Name of Book/Monograph/Book	Name of	Year of	Publisher with
No.	Chapter(s)	Author(s)	Publication	address
1	Innovations in Food Processing	Dipsikha Kalita	2019	New India
	Technology//"Evaluation of Starch	and Brijesh		Publishing
	Modification by Vibrational	Srivastava		Agency, New
	Spectroscopy: A Case Study for			Delhi (ISBN:
	Malted Rice Flour"			978-93-86546-
				51-7)
2	Unit Operations in Food Processing/	Dipsikha	2021	New India
	"Atmospheric Cold Plasma and its	Kalita, Pramod		Publishing
	Applications in Food	K. Prabhakar		Agency, New
		and Brijesh		Delhi (ISBN:
		Srivastava		978-93-87973-
				13-8)

Conference proceedings (with ISBN number) National//International

- ➤ Kalita D. Srivastava B. & Goud V. V. (2022) Modelling Mass Transfer Kinetic in Ultrasound Assisted Hydration of Cow-Pea Bean for Germination in proceeding of International Conference on Food Research, Development and Applications 2022 (InCoFReDA 2022) (Page 72) organized by the Department of Food Science & Technology, University of Sri Jayewardenepura, Sri Lanka held on 15th February 2022. [ISSN 2827-7252] [DOI: 10.5281/zenodo.6241801]
- ➤ Kalita, D. and Srivastava, B. "Cold Plasma Application for Decontamination of Fresh and Dried Food Products: Review" in National Conference on Recent Trends in Engineering and Technology NCRTET-2017 Organized by Tripura Institute of Technology to be held on 17-18, March 2017. Publisher: Allied (ISBN: 978-93-87380-61-5)
- ➤ Kalita, D. and Srivastava, B. "Effect of Germination Conditions on the Pasting Properties of Malted Low Amylose Rice of Assam" in National seminar cum workshop on Innovative Prospects in Food Processing: Integration of Engineering and Biological Sciences IPFP 2015, March 27-28, 2015, at Tezpur University, Tezpur, Assam. (ISBN: 978-93-84388-06-5) (30-36)
- ➤ Kalita, D. and Srivastava, B. "Physico- Chemical and Malting Properties of Low Amylose Rice of Assam" in National conference on Emerging Technology Trends in Agricultural Engineering ETTAE 2014, November 07-09, 2014 at NERIST, Nirjuli (Itanagar). Publisher: EXCEL (ISBN: 978-93-83842-79-7) (265-270).

Conference (oral/poster) National/International

- ❖ Kalita, D, Srivastava, B and Goud, V.V. "Modelling mass transfer kinetic in ultrasound assisted hydration of cow-pea bean for germination" in International Conference on Food Research, Development and Applications − 2022 organized by Department of Food Science and Technology in collaboration with The Association of Food Science and Technology Faculty of Applied Sciences University of Sri Jayewardenepura, Sri Lanka held on 15 February 2022. [Oral/Online]
- ❖ Kalita, D. Srivastava, B and Srivastav, P. (2022). Ultrasound-assisted hydration behaviour of kodo millet in in the International Conference on "Emerging Technologies in Food Processing-II (ETFP-2022)" organized by the Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering and Technology, Malda, West Bengal during 25th -26th March 2022. [Oral]

- ❖ Begum, A, Kalita, D, and Srivastava, B.* "Rheological and physical characteristics of pineapple puree foam and its drying behaviour" in 8th IFCON on Holistic Approaches for start-ups, Human Resource training for Agriculture and Food Industry Gemmation (HASTAG), held at CSIR-CFTRI, Mysore from December 12-15, 2018. [Poster]
- ❖ Kalita, D. and Goud, V.V. "Ultrasonication Priming Technology to Modulate Malting Process in Paddy" in National Conference on Recent Advances in Science & Technology (NCRAST 2020) organized by Assam Science & Technology University Under TEQIP III Project as a twinning activity with JNTU-Hyderabad held on 17-19 August 2020 [Oral/Online]
- ❖ Kalita, D. and Srivastava, B. "Rheological changes of malted rice weaning formula in a simulated digestive system" in 8th International Food convention on Hastag Holistic Approaches for start-ups, Human Resource training for Agriculture and Food Industry Gemmation held at CSIR-CFTRI, Mysore from 12.12. 2018 to 15.12.2018 [Oral/ Offline]
- ❖ Kalita, D. and **Srivastava**, **B.*** "Cold Plasma Application for Decontamination of Fresh and Dried Food Products: Review" in proceedings of National Conference on Recent Trends in Engineering and Technology NCRTET-2017 Organized by Tripura Institute of Technology to be held on 17-18, March 2017. [Oral/Offline]
- ❖ Kalita, D. and Srivastava, B. "Potential of Malted Rice flour (MRF) in High Energy Density Complementary Food" in 50th Convention of Indian Society of Agricultural Engineers (ISAE) and Symposium on Agricultural Engineering in Nation building: Contributions and Challenges held at Orissa University of Agriculture and Technology from 19.01.16 to 21.01.16. [Oral/Ofline]
- ❖ Kalita, D. and Srivastava, B. "Effect of Germination Conditions on the Pasting Properties of Malted Low Amylose Rice of Assam" in National seminar cum workshop on Innovative Prospects in Food Processing: Integration of Engineering and Biological Sciences IPFP 2015, March 27-28, 2015, at Tezpur University, Tezpur, Assam. [Oral/Offline]
- ❖ Kalita, D. and Srivastava, B. "Physico- Chemical and Malting Properties of Low Amylose Rice of Assam" in National conference on Emerging Technology Trends in Agricultural Engineering ETTAE 2014, November 07-09, 2014 at NERIST, Nirjuli (Itanagar).[Oral/Offline]
- ❖ Kalita, D. and Srivastava, B. "Study of Physico-chemical Properties of Alginate film Conatining Silver Oxide Nanocomposites and Effect of Incorporation Silver Oxide in Alginate Coating on Storage Stability of Banana in 3rd International Conference/ Workshop on Innovation in Food Processing, Value Chain Management and Food Safety held at NIFTEM campus, Kundli, Sonepat, Haryana from 10.01.13 to 12.01.13. [Poster]
- ❖ Kalita, D. and Srivastava, B. "Rheological Characteristics of low-amylose rice-wild banana based instant baby food" in 7th International Food Convention (IFCON-2013) on NSURE-Healthy Foods held at CSIR-CFTRI, Mysore from 18.12.13 to 21.12.13. [Poster]
- ❖ Deka, D., Kalita, D., Dutta, P., Deka, J., Deb, M., and Duary, R.K. "Comarative Study between Isoflavone content of Nutrela soya chunks and Traditional Fermented Soyabean Food called

- Tungrymbai" in National Seminar on Role of Bioactive Compound in Foods on Human Health "BIOFOODS held at Tezpur University, Tezpur from 14.11.11 to 16.11.11. [Poster]
- ❖ Participated in Food Technology "Greening food processing sector for sustainable safe food supply" and workshop on "HACCP and GMP in Food Industries and ISO Certification organized by Indian institute of Crop Processing technology held at IICPT, Thanjapur, Tamil Nadu from 30.10.10 to 31.10.10.

Faculty development Programme

- 1. Attended one-week ATAL-AICTE sponsored online Faculty Development Programme on "Material Science and Engineering approaches for Food System Design (MSEAFSD-2021)" organized by Department of Food Engineering and Technology, Tezpur University from 20-24th December 2021.
- 2. Attended one-week ATAL-AICTE sponsored online Faculty Development Programme on "Emerging Food Processing Technologies: Prospects and Challenges for Food and Nutrition Security" organized by Department of Food Engineering and Technology, Tezpur University from 4-8th January 2021.

Other information

Industrial consultation as mentor: Tholua Pratisthan Pvt. Ltd Assam since 2022

Lifetime Membership:

- > AFST(I) No. AFST/LM/3-2021/TEZ/3683
- ➤ ISAE Life Membership LM-12435