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Area of Research

- Bioenergy generation from wood and plant residues
- Syngas production and biomass gasification
- Sericulture By-product utilization and value addition
- Mulberry production technology

Academic Qualification

Qualification	Division	Percentage of Marks obtained/ CGPA	University/Board	Year of Passing	Rank/Medal/Award
Matriculation Certificate (10th)	First	86.16	SEBA	2015	First
Secondary Certificate (12th)	First	82.2	AHSEC	2017	First
B.Sc. (Hons.) Sericulture	First	7.91	Assam Agricultural University, Jorhat	2021	First
M.Sc.(Sericulture)	First	8.90	Tamil Nadu Agricultural University, Coimbatore	2023	First
Ph.D. (Agri.) in Sericulture	Pursuing (TNAU)		Pursuing (TNAU)		

M.Sc. Research

Title- **“Thermochemical Characterization and Energy Recovery Potential of Mulberry Genetic Resources”**

Chairperson- **Dr. K.T. Parthiban**, Ex-Dean and Professor (Forestry), Forest College and Research Institute, Mettupalayam, TNAU, Coimbatore-641301

Objectives

1. To characterize mulberry genetic resources for physiochemical properties and elemental composition
2. To determine the thermochemical properties of mulberry genetic resources
3. To carry out thermochemical energy potential of mulberry genetic resources

Research articles

Author	Title	Year	Journal	NAAS rating/ Impact factor
1. Nilav Ranjan Bora , K.T. Parthiban*, R. Mahendiran , P. Kumar , P. Priyadharshini , E. Arasakumar , M.V. Jawahar Vishnu and Oyimang Tamuk	Physicochemical characterization of Mulberry Genetic Resources and varieties for Generation of sustainable Biomass Energy	2023	Biological Forum – An International Journal/0975-1130	NAAS 5.11
2. Dipankar Brahma*, Rushali Chakraborty, Roshmi Borah Dutta, Vasanth V. and Nilav Ranjan Bora	A Study on the extent of Uzi Fly infestation on Muga Cocoons in the Districts of Lakhimpur and Dhemaji of Assam	2023	Biological Forum – An International Journal/2249-3239	NAAS 5.11
3. Oyimang Tamuk, KT Parthiban, I Sekar, R Mahendiran, S Selvanayaki, MV Jawahar Vishnu, E Arasakumar and Nilav Ranjan Bora	Screening and clone evaluation in different species for biomass productivity for clean dendro-energy generation	2023	The Pharma Innovation Journal/ 2277-7695	NAAS 5.23
4. Vasanth V, Senguttuvan K, Muruges K.A., * Nilav Ranjan Bora , Dipankar Brahma, Ashick Rajah R, Ranjith Kumar S, Navaneetha Krishnan S and Gajjala Nitish	XRD ANALYSIS OF SPIRULINA PLATENSIS MEDIATED TiO ₂ NPs	2024	International Journal of Zoology and Applied Biosciences	NAAS 4.13
5. Vasanth V,	Evaluation of	2023	International	

Ramamoorthy R, Arasakumar E, Ranjith Kumar S, Nilav Ranjan Bora , Gajjala Nitish, Nandha Kumar R and Moulidharshan R	Spirulina mediated TiO ₂ NPs on silkworm economic traits		Journal of Biological Science/ 2664- 9934	
6. Vasanth V, Arasakumar E, Ranjith Kumar S, Nilav Ranjan Bora , Gajjala Nitish, Nandha Kumar R and Moulidharshan R	Effect of castor and cassava foliage on growth and cocoon characters of Eri silkworm (<i>Samia Cynthia ricini</i>)	2023	International journal of Chemical Studies/ 2321- 4902	

Review articles

Author	Title	Year	Journal	NAAS rating/ Impact factor
1. Navaneetha Krishnan S*, Balasubramanian A, Sivakumar B, Hari Prasath C N, Swathiga G, Vasanth V, Thirumoorthy P, Ashick Rajah R, Nilav Ranjan Bora and Manoj Prabhakar S J	Influence of Soil Invertebrates on Soil Decomposition	2023	Journal of Survey in Fisheries Sciences/2368- 7487	Impact 0.69
2. Dipankar Brahma*, Nilav Ranjan Bora , Prety Rekha Narzary, Vasanth V, Rushali Chakraborty, Jugabrat Sarma and Abhigyan Rajkhowa	Tools and Applications of Bioinformatics in Sericulture: A Review	2024	Asian Journal of Current Research/2456- 804X	4.78
3. Nilav Ranjan Bora* , P. Kumar, Vasanth V, Dipankar Brahma, Navaneetha Krishnan S, Ashick Rajah R, Pankaj Lushan Duta, Gajjala Nitish and Manoj Prabhakar S J	Journey of Indian Forestry and its Development from Past to modern Era	2023	International Journal of Zoology and Applied Biosciences/ 2455-9571	3.05
4. V Vasanth, E	Semiochemicals		International	3.05

Arasakumar, S Ranjith Kumar, Gajjala Nitish, Nandha Kumar R, Moulidharshan R, Nilav Ranjan Bora and Dipankar Brahma	and its importance in silkworm Bombyx mori L.		Journal of Zoology and Applied Biosciences/ 2455-9571	
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Popular articles

Author	Title	Year	Journal	NAAS rating/ Impact factor
1. *Gajjala Nitish, Arasakumar E, Navaneetha Krishnan, Vasanth V and Nilav Ranjan Bora	Biology of Muga Silkworm	2023	Agri Articles/2582- 9882	
2. Vasanth V*, Arasakumar E, Nilav Ranjan Bora , Gajjala Nitish and Navaneethakrishnan S	Biology of Mulberry Silkworm	2023	Vigyan Varta/2582-9467	
3. Arasakumar, E., Vasanth, V., Nilav Ranjan Bora and Gajjala Nitish	A review on by- products of mulberry species	2023	AgriGate- An International Multidisciplinary e-Magazine	
4. *Arasakumar E, Navaneetha Krishnan , Vasanth V, Nilav Ranjan Bora and Gajjala Nitish	Particle Size Analysis and X- ray Refractometer	2023	Agri Articles/2582- 9882	
5. *Navaneetha Krishnan S, Balasubramanian A, Vasanth V, Arasakumar E, Nilav Ranjan Bora and Ashwin Niranjan M	Precision Planting Techniques for Urban Trees	2023	Agri Articles/2582- 9882	
6. *Navaneetha Krishnan S, Balasubramanian A, Arasakumar E, Vasanth V, Nilav Ranjan Bora and Gajjala Nitish	Precision Silvicultural Practices of Teak (<i>Tectona grandis</i> Linn.f)	2023	Agri Articles/2582- 9882	

Book chapters

Author	Title	Year	Journal
1. Nilav Ranjan Bora	Climate Change and Sericulture	2022	Vital Biotech Publications/ 978-93-92953-18-7

Abstract

Author	Title	Year	Place
1. Nilav Ranjan Bora*, K.T. Parthiban, E. Arasakumar, V. Vasanth, R. Ashick Rajah and Priyangana Chetia and Symphony Kashyap	Assessing Fuelwood Characteristics of Mulberry Varieties for Commercial Utility	2023	Proceedings of 8 th Agricultural graduate students conference
2. Vijay S., Nilav Ranjan Bora, Renukadevi P. and Arasakumar E.	Confirmation of complex association of root rot pathogens (<i>L. theobromae</i>) and (<i>M. phaselonia</i>) in Mulberry	2022	National conference on sericulture based multidisciplinary approaches for climate resilience sustainability and livelihood security
3. V. Vasanth*, E. Arasakumar, Nilav Ranjan Bora and Gajjala nitish	Effect of Castor and Cassava Foliage on Growth and Cocoon Characters of Eri Silkworm (<i>Samia cynthia ricini</i>)	2023	Proceedings of 8 th Agricultural graduate students conference
4. R. Ashick Rajah*, S. Radhakrishnan, M. Prasanthrajan, A. Balasubramanian, K.T. Parthiban, C.N. Hariprasath, Pragati B Patil, Nilav Ranjan Bora	Air Pollution Tolerance Index of Various Tree Species in and Around Urban Areas of Mettupalayam	2023	Proceedings of 8 th Agricultural graduate students conference

Conferences/Training/Workshop

1. National conference on sericulture based multidisciplinary approaches for climate resilience sustainability and livelihood security organised by College of Sericulture, Chintamani, UAS, Bangalore
2. 8th Agricultural graduate students conference organised by Tamil Nadu Agricultural university, Coimbatore

3. Two Weeks Online Training Programme on Remedial Education on Improving Comprehension of Students” organised by College of Temperate Sericulture, Mirgund under IDP-NAHEP SKUAST Kashmir
4. 5 days training course on “Importance and Use of Statistical analysis in Agriculture and Allied Fields” organised by Society of Krish Vigyan
5. One day workshop conducted by Office Master on Excel Using AI
6. One day workshop conducted by Skill Nation on ChatGPT and AI Tools