Bodoland University

Research/Review Articles Published in the Journals During 2024

Sl. No	Title of paper	Name of the author/s	University/Department	Name of journal	Year of publication	ISSN number	DOI link of the Paper/Article
1.	Electronic properties and quantitative mapping of magnetic moments of rare-earth hard magnet SmCo5: First principles computations and inelastic scattering	Meena L.; Ahuja U.; Kumari Meena S.; Dashora A.; Heda N.L.; Ahuja B.L.	Bodoland University	Journal of Magnetism and Magnetic Materials	2024	3048853	https://doi.org/10.1016/j.jmmm.2024.172272
2.	Sampratik Asomiya Kabitar Bhashat Lokajibonor Prosonga aru Rupboisitrya: Ek Bishlesonatmok Adhyayn (Seniram Gogoi, Biman Kumar Dole aru Mridul Haloir Nirbasita Kabitar Bishes Ullikhonere)	Sumi Kalita, Bibha Rani Nath	Assamese	Pratibha	2024	2349-5286	
3.	Archana Pujarir Kabitar Bhasha: Eti Addhyayan	Sumi Kalita	Assamese	Dogo Rangsang Research Journal	2024	2347-7180	
4.	Nalinidhar Bhattacharyar Kabitar Lakkhyan: Eti Bishleshanatmak Addhyayan	Sumi Kalita, Koushik Thakuria	Assamese	Pratibha	2024	2349-5286	
5.	Lakkhinandan Borar `Gati Mati Bhakati' Upanyashar Bhasha Eti Bishleshanatmak	Sumi Kalita	Assamese	Dogo Rangsang Research Journal	2024	2347-7180	

	Addhyayan						
6.	Boro phakara joyanat narir upasthapan : Ek adhyayan	Daisy Rani Deka	Assamese	Pratibha	2024	2349-5286	
7.	Sanskritik manobigyanar dristikonere Birendra Kumar Bhattacharyar nirbachita chutigalpat nari manastattba : Ek Abalokan	Daisy Rani Deka	Assamese	Assam Sahitya Sabha Patrika	2024	2277-9515	
8.	Understanding right and equality and it's Representation in Tribal Folktales An analysis in perspective of animal study	Daisy Rani Deka	Assamese	Dogo Rangsang	2024	2047-7180	
9.	Kautilyakale Pragvarshikavittsyojana: Ekamavalakanam	Bibhuti Lochan Sarmah	Assamese	JETIR	2024	2349-5162	
10.	Adhunikarthaniti Dristya Kautiliyarthasastriyavyavasthyah Paryalochanam	Bibhuti Lochan Sarmah	Assamese	National Journal of Hindi and Sanskrit Research	2024	2454-9177	
11.	Bipul Kumar Duttar Kabita: Bastabatar Kathakata	Ratul Deka	Assamese	Sampriti	2024	2454-3837	
12.	Subversion of Anthropocentricism: Study of the Representation of Animals in select contemporary Assamese poetry	Ratul Deka	Assamese	Noesis Literary	2024	3048-4693	https://doi.org/10.69627/NOL2024VOL1ISS2
13.	Shudrakar Byatikramee Sristi *Mrichakatikam:* Ek Adhyayan	DeepaMoni Baishya	Assamese	Dwibhashee Rashtrasevak	2024	2321-4945	

14.	Can Polyherbal Medicine be used for the Treatment of Diabetes? - A Review of Historical Classics, Research Evidence and Current Prevention Programs	Sudem Brahma, Arvind K. Goyal, Prakash Dhamodhar, Mani Reema Kumari, S. Jayashree, Talambedu Usha and Sushil Kumar Middha	Biotechnology	Current Diabetes Reviews	2024	1875-6417	http://dx.doi.org/10.2174/1573399819666230314093721
15.	Valorization of bamboo charcoal as a low-cost adsorbent for waste water treatment: a mini review	Illora Narzary, Rinki Kumari Mahato, Sushil Kumar Middha, Talambedu Usha, Arvind Kumar Goyal	Biotechnology	Advances in Bamboo Science	2024	2773-1391	https://doi.org/10.1016/j.bamboo.2024.100067
16.	Innovations in Nanotechnology for Food Production and Packaging: A Review	Talambedu Usha, Sushil Kumar Middha, Kadabagere Narayanaswamy Hemavathi, Prakash Hemalatha, Ravi Harini, Zeenat Afreen, Nidhi Dwivedi, Korthusheril Ajayakumar Akshaya, Arvind Kumar Goyal and Manjeshwar Shrinath Baliga	Biotechnology	Current Nutrition & Food Science	2024	1573-4013	http://dx.doi.org/10.2174/1115734013297685240820043042
17.	Pomegranate Rhizosphere Microbial Diversity Revealed by Metagenomics: Toward Organic Farming,	Renuka Ravinath, Talambedu Usha, Anupam J. Das, Aditya Narayan Sarangi, Neel	Biotechnology	OMICS: A Journal of Integrative Biology	2024	1557-8100	https://doi.org/10.1089/omi.2023.0272

	Plant Growth Promotion and Biocontrol?	akanta Sarvashiva Kiran, Arvind Kumar Goyal, Mothukapalli Krishnareddy Prasannakumar, Nijali ngappa Ramesh, and Sushil Kumar Middha					
18.	Investigating Emodin derivatives against SARS-CoV-2 found in medicinal herbs	Talambedu Usha, Kadabagere Narayanaswamy Hemavathi, Arvind Kumar Goyal, C.S. Abhinand, S. Dhivya, A. Cholarajan, Neelu Joshi, Dinesh Babu , Sushil Kumar Middha	Biotechnology	Kuwait Journal of Science	2024	1024-8684	http://dx.doi.org/10.1016/j.kjs.2024.100265
19.	TRIM13 reduces cholesterol efflux and increases oxidized LDL uptake leading to foam cell formation and atherosclerosis	Suresh Govatati, Raj Kumar, Monoranjan Boro, James G Traylor, A Wayne Orr, Aldons J Lusis, Gadiparthi N Rao	Biotechnology	Journal of Biological Chemistry	2024	1083-351X	https://doi.org/10.1016/j.jbc.2024.107224
20.	Quest for Anti-SARS-CoV-2 antiviral therapeutics: in-silico and in-vitro analysis of edible mushroom- Cordyceps militaris	Pradeep Gandhale, Rupesh Chikhale, Pukar Khanal, Vashkar Biswa, Raju Ali, Mohd Shahnawaz Khan, Nilambari Gurav, Muniappan Ayyanar, Sandeep Das. Shailendra Gurav	Biotechnology	Journal of Ayurveda and Integrative Medicine	2024	0976-2809	https://doi.org/10.1016/j.jaim.2024.100979

21.	Structural analysis of Glucose-6-Phosphate Dehydrogenase (G6PD) variants from Northeast India and natural antioxidants as a pharmacological agent to alleviate G6PD deficiency associated challenges- An in silicoapproach	Noymi Basumatary, Nerswn Basumatary, Dipankar Baruah, Paresh Kumar Sarma & Jatin Sarmah	Biotechnology	Indian Journal of Biochemistry & Biophysics	2024	Print: 0301-1208 Online: 0975-0959	http://dx.doi.org/10.56042/ijbb.v62i1.11769
22.	Indian Council of Medical Research (ICMR)–Sickle Cell Disease (SCD) Stigma Scale for India (ISSSI): A Protocol for Scale Development	Deepa Bhat, Yogita Sharma, Parikipandla Sridevi, Shaily B. Surti, Jatin Sarmah, Manoranjan Ranjit, Madhusmita Bal & Bontha V. Babu	Biotechnology	Journal of Racial and Ethnic Health Disparities	2024	2196-8837	http://dx.doi.org/10.1007/s40615-024-02228-1
23.	Sickle cell disease in Indian tribal population: Findings of a multi-centre Indian SCD registry	Yogita Sharma, Deepa Bhat, Parikipandla Sri devi, Shaily B. Surti, Manoranjan Ranjit, Jatin Sarmah, Godi Sudhakar, Bontha V. Babu	Biotechnology	Blood Cells, Molecules, and Diseases	2024	1096-0961	https://doi.org/10.1016/j.bcmd.2024.102873
24.	Dietary Iodine Intake and Pattern of Thyroid Disorders among the Ethnic Population of Eastern Himalayan Ranges of India	Trisha Sonowal jatin sarmah paresh kumar sharma	Biotechnology	Archives of Medicine and Health Sciences	2024	2321-6085	http://dx.doi.org/10.4103/amhs.amhs_258_23
25.	Identification of glucose-6-phosphate dehydrogenase variants by utilizing	Noymi Basumatary, Dipankar Baruah, Paresh	Biotechnology	Gene Reports	2024	2452-0144	https://doi.org/10.1016/j.genrep.2024.101911

	polymerase chain reaction – Restriction fragment length polymorphism based method	Kumar Sarma, Jatin S armah					
26.	Antihyperglycemic and antihyperlipidemic effects of fruit extract of Hodgsonia heteroclita (Roxb.) Hook. f. & Thomson in diabetic mice	Silu Basumatary, Part ha Pradip Adhikari, Ajit Kumar Das, Nanjian Raaman, Gauri Dutt Sharma, Jatin Sar mah, Anjum Dihingia, Rinku Baishya, Prase njit Manna, Jatin Kalit	Biotechnology	Journal of Ethnopharmacolog y	2024	1872-7573	https://doi.org/1 0.1016/j.jep.202 4.118094
27.	Strengthening Health System and Community Mobilization for Sickle Cell Disease Screening and Management among Tribal Populations in India: An Interventional Study	Bontha V Babu Yogitha sarmah Parkindla Sridevi Saily B surthy Deepa Bhat, Monoranjan Ranjit Gody shudakar , jatin Sarmah	Biotechnology	International journal for hemoglobin research	2024	Print: 0363-0269 Online: 1532-432X	https://doi.org/1 0.1080/0363026 9.2023.2300675
28.	A study on the potential of endophytic bacteria to promote plant growth: Uses in agriculture and future directions	Das D & Das S	Biotechnology	Plant Science Today	2024	2348-1900	https://doi.org/1 0.14719/pst.339 8
29.	Exploring of Grasshopper fauna in Udalguri district, BTR, Assam.	Narjari MM and Narzari S	Biotechnology	African journal of Biological Sciences	2024	2663-2187	https://doi.org/1 0.48047/AFJBS. 6.15.2024.3834-3844
30.	Taxonomic studies of orthopteran fauna from Udalguri district, BTR,	Narjari MM and Narzari S	Biotechnology	International Journal of Entomology	2024	2455-4758	

	Assam, India			Research			
31.	Spent mushroom substrate of Ganoderma lucidum developed nanocatalyst (CSA/BaO@K2CO3) for efficient biodiesel synthesis from blended oil feedstock	Sujata Brahma, Raju Ali, Papia Das, Sharmistha Brahma Kaur, Rebecca Daimari, Jonali Owary, Sandeep Das, Bipul Das, Sanjay Basumatary	Biotechnology ,Botany and Chemistry	Industrial Crops and Products	2024	0926-6690	https://doi.org/10.1016/j.indcrop.2024.119871
32.	Tradition meets technology: An overview of fermented bamboo shoots	ArvindKumar Goyal, Talambedu Usha, Mrinal Kalita, Kadabagere,Narayanaswamy Hemavathi, Prakash Hemalatha, Sunita Mushahary, Pranjoy Brahma, Sushil Kumar Middha, Swarna Kamal Dey, Jangila Basumatary, Ankit Shah	Biotechnology	Advances in Bamboo Science	2024	2773-1391	https://doi.org/10.1016/j.bamboo.2024.100078
33.	Nutrient Profiling, ICP-OES Mineral Analysis and UPLC Estimation of Amino Acids in Three Selected Ethnomedicinal Plants of North East India	Khakhalary S, Narzari S	Biotechnology	Asian Journal of Dairy and Food Research	2024	0971-4456	https://doi.org/10.18805/ajdfr.DR-2145
34.	The First Report of Three Glucose-6-Phosphate Dehydrogenase (G6PD) Variants: Mediterranean,	Basumatary N, Baruah D, Sarma PK, Wary KK Sarmah J	Biotechnology	Indian Journal of Hematology and Blood Transfusion	2024	0971-4502	https://doi.org/10.1007/s12288-023-01686-7

	Orissa and Kalyan-Kerala from Northeast India						
35.	Writing Technique of Zaraphagla: A Brief Discussion	Indira Boro	Bodo	IJFMR	2024	2582-2160	
36.	Laxical Nominalization in Bodo	Indira Boro	Bodo	IJFMR	2024	2582-2160	
37.	Verb Formation in Bodo and Koch Rabha Language: A Coparative Study	Indira Boro	Bodo	Language in India	2024	1930-2940	
38.	An Introduction to the Bodo Agor (Weaving Design)	Indira Boro	Bodo	Educational Administration: Theory and Practice	2024	2148-2403	http://dx.doi.org/10.53555/kuey.v30i1.7782
39.	Gender Issues in the Short Stories by Zaraphagla : A Study with the View of Sociology	Indira Boro	Bodo	Library Progress International	2024	0970-1052	https://doi.org/10.48165/bapas.2024.44.2.1
40.	Negative Particles of Verbal Tense in Bodo	Bhoumik Ch. Baro	Bodo	IJFMR	2024	2582-2160	
41.	Interrogative sentence of Bodo: A study	Bhoumik Ch. Baro	Bodo	Library Progress International	2024	0970 1052	https://doi.org/10.48165/bapas.2024.44.2.1
42.	A discussion of the short story in the morality market	Bijitgiri Basumatary	Bodo	Internationl Journal of Creative Research Thoughts	2024	2320-2882	
43.	Boro kachari solo bijabao thanai solo bathayao dwini mohor: mwnse bijirnai	Bijitgiri Basumatary	Bodo	Pratibha	2024	2349-5286	

44.	Reflection on Socio-Cultural life in the Novels of Rita Boro: A Selective Study	Laishri Mahilary	Bodo	Seventh Sense Research Group	2024	2394-2703	https://doi.org/10.14445/23942703/IJHSS-V9I2P113
45.	A Study on Cultural Aspects as Reflected in Rita Boro's Novel "Saikhong"	Laishri Mahilary	Bodo	History Research Journal	2024	0976-5425	
46.	Significance of the Fok Songs in Rita Boro's Novel Bachiram Jwhwlao: An Analytical Study	Laishri Mahilary	Bodo	Indian Journal of Psychology	2024	0019-5553	
47.	Aizw Santhouminni Bitha Mohorwi Angubwi: Mwnse Phoraisongnai	Laishri Mahilary	Bodo	Pratibha	2024	2349-5286	
48.	Two new species and additional records of Coenogonium (Ostropales: Coenogoniaceae) from India	Rakesh Singh Adhikari, Roshini kumar Ngangom, Suparna Biswas, Rebecca Daimari, Sanjeeva Nayaka	Botany	Nordic journal of Botany	2024	1756-1051	https://doi.org/10.1111/njb.04376
49.	New additional records of lichenized fungi to Indian lichen biota	Pungbili Islary, Monika Thakur,Vishal Kumar,Suparna Biswas,Gaurav Kumar Mishra, Sanjeeva Nayaka, Siljo Joseph, Rebecca Daimari	Botany	Vegetos	2024	2229-4473	https://doi.org/10.1007/s42535-024-01036-6

50.	Phytochemical, proximate analysis and antioxidant activity of the rhizome of Alpinia nigra (Gaertn.) B.L. Burtt (Zingiberaceae) in Tamulpur district, Assam	Minisrang Daimary, Pungbili Islary &Rebecca Daimari	Botany	Plant Science Today	2024	Online: 2348-1900	https://doi.org/10.14719/pst.2929
51.	Impact of petroleum hydrocarbon and heavy metal pollution on coral reefs and mangroves: a review	Punniyakotti Elumalai, Punniyakotti Parthipan, Xueke Gao, Jinjie Cui, Arunagiri Santhosh Kumar, Perumal Dhandapani, Aruliah Rajasekar, Hemen Sarma, Nadana Raja Vadivu Ganapathy, Jayaraman Theerthagiri, Ahreum Min, Myong Yong Choi	Botany	Environmental Chemistry Letters	2024	1610-3653	https://doi.org/10.1007/s10311-024-01728-0
52.	Biomedical applications of graphene-based nanomaterials: recent progress, challenges, and prospects in highly sensitive biosensors	Arabinda Baruah, Rachita Newar, Saikat Das, Nitul Kalita, Masood Nath, Priya Ghosh, Sampath Chinnam, Hemen Sarma, Mahesh Narayan	Botany	Discover Nano	2024	2731-9229	https://doi.org/10.1186/s11671-024-04032-6

53.	Unraveling the mechanisms of free radicals-based transformation and accumulation of potentially toxic metal(loid)s in biochar- and compost-amended soil-plant systems	Ayesha Imtiyaz Cheema, Amina, Habib Ullah, Mehr Ahmed Mujtaba Munir, Abdul Rehman, Hemen Sarma, Krzysztof Pikoń, Balal Yousaf	Botany	Journal of Cleaner Production	2024	1879-1786	https://doi.org/10.1016/j.jclepro.2024.141767
54.	Development of FRET-based optical sensors using N-doped carbon dots for detection of chromium (VI) and manganese (VII) in water for a sustainable future	Rachita Newar, Nasrin Sultana, Saikat Das, Bhoirob Gogoi, Nazim Forid Islam, Hemen Sarma, Arabinda Baruah	Botany	Journal of Environmental Chemical Engineering	2024	2213-3437	https://doi.org/10.1016/j.jece.2023.111721
55.	Nanoplastics and lithium accumulation in soil–plant systems: Assessing uptake, toxicological effects, and potential synergistic interactions	Hemen Sarma, Tanushree Basumatary, Balal Yousaf, Mahesh Narayan	Botany	Current Research in Biotechnology	2024	2590-2628	https://doi.org/10.1016/j.crbiot.2023.100170
56.	Converting food waste to biofuel: A sustainable energy solution for Sub-Saharan Africa	Ramadhani Bakari, Ripanda Asha, Miraji Hossein, Xiao Huang, N.F. Islam, Rock Keey Liew, Mahesh Narayan, Su Shiung Lam, Hemen Sarmah	Botany	Sustainable Chemistry for the Environment	2024	2949-8392	https://doi.org/10.1016/j.scenv.2024.100126
57.	Nano-biochar interactions with contaminants in the rhizosphere and their	Hemen Sarma, Suprity Shyam, Ming Zhang, Giulia Guerriero	Botany	Soil & Environmental Health	2024	2949-9194	https://doi.org/10.1016/j.seh.2024.100095

	implications for plant-soil dynamics						
58.	Nitro-PAHs: Occurrences, ecological consequences, and remediation strategies for environmental restoration	Hemen Sarma, Bhoirob Gogoi, Chung-Yu Guan, Chang-Ping Yu	Botany	Chemosphere	2024	1879-1298	https://doi.org/10.1016/j.chemosphere.2024.141795
59.	Biosurfactant-enhanced bioremediation of petroleum sludge: Unveiling the potential of Enterobacter cloacae AR-IASST (01)	Rupshikha Patowary, Bhagyalakhmi Rajbongshi, Arundhuti Devi, Bappy Sen, Manisha Goswami, Hemen Sarmah	Botany	Next Sustainability	2024	2949-8236	https://doi.org/10.1016/j.nxsust.2024.100034
60.	Therapeutic potential of lipopeptide biosurfactant-fabricated copper oxide nanoparticles: Mechanistic insight into their biocompatibility using zebra fish	Tamanna Bhuyan, Yugal Kishore Mohanta, Kaustuvmani Patowary, Surjendu Maity, Debasis Nayak, Kangkan Deka, K. Meenakshi Sundaram, Saravanan Muthupandian, Hemen Sarma	Botany	Current Research in Biotechnology	2024	2590-2628	https://doi.org/10.1016/j.crbiot.2024.100227
61.	Graphene acid quantum dots: A highly active multifunctional carbon nano material that intervene in the trajectory towards neurodegeneration	Sherin M. ElMorsy, Denisse A Gutierrez, Salvador Valdez, Jyotish Kumar, Renato J Aguilera, Mohamed Noufal, Hemen Sarma, Sampath Chinnam,	Botany	Journal of Colloid and Interface Science	2024	1095-7103	https://doi.org/10.1016/j.jcis.2024.05.072

		Mahesh Narayan					
62.	Rhamnolipids: Green Surfactant for Environmental Bioremediation of Polycyclic Aromatic Hydrocarbons (PAHs)	Vandana Singh, Chetan Pandit, Subhasree Ray, Soumya Pandit, Nishant Ranjan, Deepansh Sharma, Hemen Sarma, Geetha S.J., Randhir Makkar, Sarvesh Rustagi, Sumira Malik, Ram Prasad, Sanket J. Joshi	Botany	Environmental Quality Management	2024	1520-6483	https://doi.org/10.1002/tqem.22282
63.	Encouraging circular economy and sustainable environmental practices by addressing waste management and biomass energy production	Nazim Forid Islam, Bhoirob Gogoi, Rimon Saikia, Balal Yousaf, Mahesh Naraya, Hemen Sarma	Botany	Regional Sustainability	2024	2097-0129	https://doi.org/10.1016/j.regsus.2024.100174
64.	Potential protection of resveratrol-tempeh against nephrotoxic and hepatotoxic histological damage in mice induced by aluminum	Yulia Irnidayanti, Salsabilla Audy Julieta Wisaksono, Win Darmanto, Mahesh Narayan, Hemen Sarma	Botany	Tissue and Cell	2024	1532-3072	https://doi.org/10.1016/j.tice.2024.102589

65.	Utilizing banana peduncle as an affordable bio-adsorbent for efficient removal of lead ions from water and industrial effluents	P. Muthusamy, S. Murugan, Sanjeeb Kumar Mandal, Bishwambhar Mishra, Yugal Kishore Mohanta, Hemen Sarma, Mahesh Narayan	Botany	Sustainable Chemistry for the Environment	2024	2949-8392	https://doi.org/10.1016/j.scenv.2024.100150
66.	Extended distribution of an endemic variety Glochidion zeylanicum var. paucicarpum Chakrab. & N.P. Balakr. (Phyllanthaceae) from Assam, India	Priyanka Brahma & Sanjib Baruah	Botany	Vegetos	2024	2229-4473	https://doi.org/10.1007/s42535-023-00650-0
67.	Quantitative approach to the ethnomedicinal study of the ethnic communities of Rangia subdivision, Assam, North East India	Sanjib Baruah, Dhriti Basumatary, Priyanka Brahma	Botany	Ethnobotany Research and Applications	2024	1547-3465	http://dx.doi.org/10.32859/era.27.21.1-16
68.	Ethnomedicinal study on roots and rhizomes used by the Bodo community of Kokrajhar district of Assam (India)	Twinkle Basumatary, Priyanka Brahma, Rujukha Wary, Birina Bhuyan and Sanjib Baruah	Botany	Pleione	2024	0973-9467	http://dx.doi.org/10.26679/Pleione.18.2.2024.159-166
69.	Citrus in North East India: Wonder Fruits	Sanjib Baruah, Madhumita Talukdar	Botany	Agri Tech Today	2024	3048-8249	
70.	Foliar epidermal micromorphology of genus Glochidion J.R.Forst. & G.Forst. (Phyllanthaceae) by using light and electron microscopy	Priyanka Brahma, Sanjib Baruah	Botany	Current Botany	2024	2220-4822	https://doi.org/10.25081/cb.2024.v15.8609

71.	Micromorphology, phytochemical screening, and GC-MS analysis of bioactive compounds isolated from Papilionanthe teres (Roxb.) Schltr.: A potent medicinal plant	Brahma Priyanka, Basumatary Sonali, Baruah Sanjib	Botany	Medicinal Plants - International Journal of Phytomedicines and Related Industries	2024	Print: 0975-4261. Online: 0975-6892.	http://dx.doi.org/10.5958/0975-6892.2024.00016.9
72.	How Are Turmeric and The National Turmeric Board (NTB) Important?	Sanjib Baruah	Botany	Agri Tech Today	2024	3048-8249	
73.	Evaluation of anticancer, immunomodulatory and anti-inflammatory potential of antioxidant rich Anzia ornatoides, a lichen species from eastern Himalayan region	Islary, P., Meher, R.K., Biswas, S., Baumatary, D., Basumatary, I.B., Dubey, D., Basumatary, D. & Daimari, R.	Botany	South African Journal of Botany	2024	1727-9321	https://doi.org/10.1016/j.sajb.2023.11.037
74.	Nitrogen doped carbon quantum dots: a multifaceted carbon nanomaterial that interferes in an amyloid-forming trajectory	ElMorsy S.M.; Gutierrez D.A.; Valdez S.; Kumar J.; Aguilera R.J.; Noufal M.; Chinnam S.; Sarma H.; Narayan M.	Botany	Journal of Materials Chemistry B	2024	20507518	https://doi.org/10.1039/d4tb02104e
75.	Spent mushroom substrate of Ganoderma lucidum developed nanocatalyst (CSA/BaO@K 2 CO 3) for efficient biodiesel synthesis from blended oil feedstock	Sujata Brahma, Raju Ali, Papia Das, Sharmistha Brahma Kaur, Rebecca Daimari, Jonali Owary, Sandeep Das, Bipul Das, Sanjay Basumatar	Botany, Chemistry and Biotechnology	Industrial Crops and Product	2024	0926-6690	https://doi.org/10.1016/j.indcrop.2024.119871

76.	A facile and green synthesis of corn cob-based graphene oxide and its modification with corn cob-K2CO3 for efficient removal of methylene blue dye: Adsorption mechanism, isotherm, and kinetic studies	Nituraj Mushahary, Angita Sarkar, Bipul Das, Samuel Lalthazuala Rokhum, Sanjay Basumatary	Chemistry	Journal of the Indian Chemical Society	2024	Online: 2667-2847 Linking: 0019-4522	https://doi.org/10.1016/j.jics.2024.101409
77.	Excitation wavelength and time dependent colour tunable room temperature phosphorescence from boron doped carbon nanodots	DR.SANJAY BASUMATARY, BILIPANG MAHILARY, KHEMNATH PATIR	Chemistry	Journal of Fluorescence	2024	15734994 10530509	http://dx.doi.org/10.1007/s10895-024-04007-x
78.	Waste biomass-based graphene oxide decorated with ternary metal oxide (MnO-NiO-ZnO) composite for adsorption of methylene blue dye	Priyanka Barooah, Nituraj Mushahary, Bipul Das, Sanjay Basumatar	Chemistry	Cleaner Water	2024	2950-2632	http://dx.doi.org/10.1016/j.clwat.2024.100049
79.	Exploring the potential of diosgenin as a promising antitumor agent through comprehensive spectroscopic characterization, solvent–solute interactions, topological properties, Hirshfeld surface, and molecular docking interactions with 2NZT and 2I1V proteins	A. Ram Kumar, S. Selvaraj, A. S. Vickram, G.P. Sheeja Mol, Shikha Awasthi, M. Thirunavukkarasu, Manickam Selvaraj, Sanjay Basumatary	Chemistry	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2024	Print: 1386-1425 Online: 1873-3557	http://dx.doi.org/10.1016/j.saa.2024.125349

80.	Graphitic carbon nitride composites as advanced versatile materials for adsorption and photocatalytic degradation of emerging pollutants from wastewater	Fungbili Basumatary, Angita Sarkar, Nituraj Mushahary, Bipul Das, Pankaj Saikia, Manickam Selvaraj, Sanjay Basumatary	Chemistry	Process Safety and Environmental Protection	2024	Online: 1744-3598 Print: 0957-5820	https://doi.org/10.1016/j.psep.2024.09.077
81.	Biodiesel production using areca nut (Areca catechu L.) leaf ash-K2CO3 catalyst via transesterification from an oil blend of three different feedstocks	Simangsa Boro, Bipul Das, Sujata Brahma, Bidangshri Basumatary, Siri Fung Basumatary, Sanjay Basumatary	Chemistry	Sustainable Chemistry for the Environment	2024	Online: 2949-8392	http://dx.doi.org/10.1016/j.scenv.2024.100164
82.	Recent advances in magnetic solid catalysts: Synthesis, Stabilization and Application in cleaner production of biodiesel	Siri Fung Basumatary, Bipul Das, Basanta Kumar Das, Mainul Hoque, Sujata Brahma, Bidangshri Basumatary, Khemnath Patir, Manickam Selvaraj, Samuel Lalthazuala Rokhum, Sanjay Basumatary	Chemistry	Energy Nexus	2024	Online: 2772-4271	https://doi.org/10.1016/j.nexus.2024.100318
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84.	A novel approach for modification of montmorillonite using banana peel ash extract for enhanced adsorption efficiency of methylene blue dye	Angita Sarkar, Nituraj Mushahary, Bipul Das, Sanjay Basumatary	Chemistry	Desalination and Water Treatment	2024	Online: 1944-3986	http://dx.doi.org/10.1016/j.dwt.2024.100585
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86.	A mixture of three agrowastes-K2CO3 as a solid catalyst for biodiesel synthesis from a binary blend of two non-edible oils	Siri Fung Basumatary, Sujata Brahma, Bipul Das , Sanjay Basumatary	Chemistry	Journal of the Indian Chemical Society	2024	Online: 2667-2847 Linking: 0019-4522	http://dx.doi.org/10.1016/j.jics.2024.101195
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89.	Sustainable Hydrogen Production: Solar-Powered Biomass Conversion Explored through (Photo)Electrochemical Advancements	Rajender Boddula, Yen-Yi Lee, Srinivaas Masimukku, Guo-Ping Chang-Chien, Ramyakrishna Pothu, Rajesh Kumar Srivastava, Prakash Kumar Sarangi, Manickam Selvaraj, Sanjay Basumatary, Noora Al-Qahtani	Chemistry	Process Safety and Environmental Protection	2024	Online: 1744-3598 Print: 0957-5820	https://doi.org/10.1016/j.psep.2024.04.068
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92.	Sulfamic acid modified UiO-66 metal-organic framework for biodiesel production: Process optimization using response surface methodology, kinetics, and thermodynamic study	Shiva Prasad Gouda, Da Shi, Sanjay Basumatary, Hui Li, Ramón Piloto-Rodríguez, Samuel Lalthazuala Rokhum	Chemistry	Chemical Engineering Journal	2024	Print: 1385-8947 Online: 1873-3212	https://doi.org/10.1016/j.cej.2023.148154
93.	Selective and Comparative Study of B/nZVCu-Fe and B/nZVCu-Zn Nanoparticles as Fluorescent Probe for Dopamine in Presence of its Interference Molecules	Rimki Bhattacharjya, Sarojmoni Kalita,Ananya Dutta, Dipanwita Basak, Hemaprobha Saikia	Chemistry	Journal of Fluorescence	2024	15734994 10530509	https://doi.org/10.1007/s10895-024-03873-9
94.	Green synthesis and applications of mono/bimetallic nanoparticles on mesoporous clay: a review	Manash Pratim Barman , Dipanwita Basak , Debasis Borah , Deepmoni Brahma , Mandira Debnath and Hemaprobha Saikia	Chemistry	Reviews in Inorganic Chemistry	2024	2191-0227	https://doi.org/10.1515/revic-2024-0008

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97.	Spent mushroom substrate of Ganoderma lucidum developed nanocatalyst (CSA/BaO@K 2 CO 3) for efficient biodiesel synthesis from blended oil feedstock	Sujata Brahma, Raju Ali, Papia Das, Sharmistha Brahma Kaur, Rebecca Daimari, Jonali Owary, Sandeep Das, Bipul Das, Sanjay Basumatary	Chemistry, Biotechnology & Botany	Industrial Crops and Products	2024	0926-6690	https://doi.org/10.1016/j.indcrop.2024.119871
98.	Emulsion Prepared Vinyl Acetate-Based Terpolymer: a Review on Their Preparations, Properties, and Applications	Roy M.; Haloi D.J.; Barman J.	Chemistry	Asian Journal of Green Chemistry	2024	25884328	https://doi.org/10.48309/ajgc.2024.413885.1441
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124.	Language, Identity and Conflict: Comprehending Everyday Co-existence in Assam	Debajyoti Biswas	English	Journal Space and Culture, India	2024	2052-8396	http://dx.doi.org/10.20896/saci.v12i3.1625
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132.	Spatial variation in performance of socially marginalized students in high school leaving certificate examination 2022, in Assam, India	Heya Brahma, Sibani Basumatari, Jeemina Baglari, Bhobesh Daimary, Pralip Kumar Narzary	Geography and Education	International Journal of Population Studies	2024	2424-8606	http://dx.doi.org/10.36922/ijps.0886

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154.	A Study on n-th Derivative of Neutrosophic Function and Neutrosophic Differential Equation	Neutrosophic Sets and Systems	Mathematical Sciences	Neutrosophic Sets and Systems	2024	2331-608X Print: 2331-6055	
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156.	A Neutrosophic Solution of Heat Equation by Neutrosophic Laplace	Gugu Narzary, Bhimraj Basumatary, Giorgio Nordo	Mathematical Sciences	Neutrosophic Sets and Systems	2024	2331-608X Print: 2331-6055	

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161.	Application of Semigraph and Directed Graph in Neurology of Mental Illness (Anxiety)	Birglai BasumataryWSEASGoogle Scholar, Abdur Rohman, Surajit Kr. Nath	Mathematical Sciences	International Journal of Applied Sciences & Development	2024	Electronic: 2945-0454	https://doi.org/10.37394/232029.2024.3.6
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170.	Influence of Surface Roughness on Magnetic Property of Magnetron Sputter Deposited FePtCo films	R K Basumatary, H. Basumatary, M. M. Raja, R. Brahma, S. K. Srivastava	Physics	Materials Research Innovations	2024	1432-8917	https://doi.org/10.1080/14328917.2024.2304944
171.	Effect of manganese (Mn) doping on the structural, dielectric, ferroelectric, and ferromagnetic properties of ceria (CeO2)	R. Basumatary, S. Sahu, D. Goyari, D. Pamu, R. Brahma	Physics	Journal of Alloys and Compounds	2024	0925-8388	https://doi.org/10.1016/j.jallcom.2024.174958
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173.	Effect of color reconnection and rope formation on strange particle production in p+p collisions at $\sqrt{s}$ = 13 TeV using PYTHIA8 Model	Hushnud Hushnud, Kalyan Dey	Physics	Nuclear Physics A	2024	Print: 0375-9474 Online: 1873-1554	https://doi.org/10.1016/j.nuclphysa.2024.122868
174.	Harnessing plasma-generated reactive species for the synthesis of different phases of molybdenum	Parismita Kalita, Palash Jyoti Boruah, AR Pal, H Bailung	Physics	Dalton Transactions	2024	1477-9234	https://doi.org/10.1039/D4DT01620C

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179.	Unveiling the Potential of Covalent Organic Framework Electrocatalyst for Enhanced Oxygen Evolution	Hridoy Jyoti Bora, Manash P Nath, Palash Jyoti Medhi, Palash Jyoti Boruah, Parismita Kalita, Heremba Bailung, Biswajit Choudhury,	Physics	Langmuir	2024	Print: 0743-7463 Web: 1520-5827	https://doi.org/10.1021/acs.langmuir.4c00788

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