

Debendra Baruah

List of Publications by Year in descending order

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59
papers

3,386
citations

201674
27
h-index

155660
55
g-index

59
all docs

59
docs citations

59
times ranked

4260
citing authors

#	ARTICLE	IF	CITATIONS
1	Feasibility study of TEG-integrated biomass cook stove for electrical power generation specific to rural areas with inadequate electricity. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 5714-5735.	2.3	10
2	Decision support system based planning of biomass gasification system for decentralised energy generation. <i>Renewable Energy Focus</i> , 2021, 38, 22-35.	4.5	3
3	Energy-carbon-water footprint of sugarcane bioenergy: A district-level life cycle assessment in the state of Maharashtra, India. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111583.	16.4	20
4	Flexible luminescent non-lanthanide metal-organic frameworks as small molecules sensors. <i>Dalton Transactions</i> , 2021, 50, 14513-14531.	3.3	22
5	Acetamide for latent heat storage: Thermal stability and metal corrosivity with varying thermal cycles. <i>Renewable Energy</i> , 2020, 145, 1932-1940.	8.9	12
6	Prospect and potential of biomass power to mitigate climate change: A case study in India. <i>Journal of Cleaner Production</i> , 2019, 220, 931-944.	9.3	60
7	Prospects of decentralized renewable energy to improve energy access: A resource-inventory-based analysis of South Africa. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 103, 328-341.	16.4	22
8	Recycling of bioenergy by-products as crop nutrient: Application in different phases for improvement of soil and crop. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13099.	2.3	2
9	By-products of bioenergy systems (anaerobic digestion and gasification) as sources of plant nutrients: scope of processed application and effect on soil and crop. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 556-572.	3.0	10
10	Bioelectricity from sugarcane bagasse co-generation in India—An assessment of resource potential, policies and market mobilization opportunities for the case of Uttar Pradesh. <i>Journal of Cleaner Production</i> , 2018, 182, 1012-1023.	9.3	26
11	Thermoelectric conversion of waste heat from IC engine-driven vehicles: A review of its application, issues, and solutions. <i>International Journal of Energy Research</i> , 2018, 42, 2595-2614.	4.5	27
12	Optimal Distributed Generator Sizing and Placement by Analytical Method and Fuzzy Expert System: a Case Study in Tezpur University, India. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2018, 3, 1.	2.6	15
13	Impact of time expenditure on household preferences for cooking fuels. <i>Energy</i> , 2018, 151, 309-316.	8.8	13
14	Recent Trends in the Pretreatment of Lignocellulosic Biomass for Value-Added Products. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	622
15	Addressing Economic and Energy Poverty Through Locally Available Biomass Resources: Investigation of Issues Concerning India and South Africa. , 2018, , .		0
16	GIS mapping-based impact assessment of groundwater contamination by arsenic and other heavy metal contaminants in the Brahmaputra River valley: A water quality assessment study. <i>Journal of Cleaner Production</i> , 2018, 201, 1001-1011.	9.3	48
17	Effect of combined chemical and thermal pretreatments on biogas production from lignocellulosic biomasses. <i>Industrial Crops and Products</i> , 2018, 124, 735-746.	5.2	44
18	Artificial neural network based modeling of biomass gasification in fixed bed downdraft gasifiers. <i>Biomass and Bioenergy</i> , 2017, 98, 264-271.	5.7	115

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19	Investigation on by-products of bioenergy systems (anaerobic digestion and gasification) as potential crop nutrient using FTIR, XRD, SEM analysis and phyto-toxicity test. Journal of Environmental Management, 2017, 196, 201-216.	7.8	57
20	Emerging role of Geographical Information System (GIS), Life Cycle Assessment (LCA) and spatial LCA (GIS-LCA) in sustainable bioenergy planning. Bioresource Technology, 2017, 242, 218-226.	9.6	117
21	Solar air heater for residential space heating. Energy, Ecology and Environment, 2017, 2, 387-403.	3.9	25
22	Assessment of by-products of bioenergy systems (anaerobic digestion and gasification) as potential crop nutrient. Waste Management, 2017, 59, 102-117.	7.4	67
23	GIS based planning of a biomethanation power plant in Assam, India. Renewable and Sustainable Energy Reviews, 2016, 62, 596-608.	16.4	36
24	Biogas Production from Surplus Plant Biomass Feedstock: Some Highlights of Indo-UK R&D Initiative. Procedia Environmental Sciences, 2016, 35, 785-794.	1.4	16
25	Phosphorus recovery as struvite from farm, municipal and industrial waste: Feedstock suitability, methods and pre-treatments. Waste Management, 2016, 49, 437-454.	7.4	133
26	Phosphorus recovery as struvite: Recent concerns for use of seed, alternative Mg source, nitrogen conservation and fertilizer potential. Resources, Conservation and Recycling, 2016, 107, 142-156.	10.8	240
27	Steady state heat transfer modeling of solid fuel biomass stove: Part 1. Energy, 2016, 97, 283-295.	8.8	18
28	Distribution loss reduction in a University of North East India through load factor improvement. , 2015, , .		4
29	GIS mapping of rice straw residue for bioenergy purpose in a rural area of Assam, India. Biomass and Bioenergy, 2014, 71, 125-133.	5.7	21
30	Gasification of tea (Camellia sinensis (L.) O. Kuntze) shrubs for black tea manufacturing process heat generation in Assam, India. Biomass and Bioenergy, 2014, 66, 27-38.	5.7	19
31	Bioenergy potential from crop residue biomass in India. Renewable and Sustainable Energy Reviews, 2014, 32, 504-512.	16.4	400
32	Drying modelling and experimentation of Assam black tea (Camellia sinensis) with producer gas as a fuel. Applied Thermal Engineering, 2014, 63, 495-502.	6.0	31
33	Development of an Empirical Model for Assessment of Solar Air Heater Performance. Distributed Generation and Alternative Energy Journal, 2014, 29, 56-75.	0.8	1
34	Down Draft Gasification Modelling and Experimentation of Some Indigenous Biomass for Thermal Applications. Energy Procedia, 2014, 54, 21-34.	1.8	50
35	Modeling of biomass gasification: A review. Renewable and Sustainable Energy Reviews, 2014, 39, 806-815.	16.4	271
36	Possibility of biomass gasification in tea manufacturing industries in Assam, India. International Journal of Renewable Energy Technology, 2014, 5, 310.	0.3	4

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37	MICROWAVE DRYING CHARACTERISTICS OF ASSAM CTC TEA (<i>CAMELLIA ASSAMICA</i>). Journal of Food Processing and Preservation, 2013, 37, 366-370.	2.0	12
38	Production and characterization of biodiesel obtained from <i>Sapindus mukorossi</i> kernel oil. Energy, 2013, 60, 159-167.	8.8	49
39	Global trend in wind power with special focus on the top five wind power producing countries. Renewable and Sustainable Energy Reviews, 2013, 19, 348-359.	16.4	45
40	GIS based assessment of rice (<i>Oryza sativa</i>) straw biomass as an alternative fuel for tea (<i>Camellia</i>) Tj ETQq0 0 0 rgBTJ/Overlock 10 Tf 50	5.7	15
41	Performance of diesel engine using biodiesel obtained from mixed feedstocks. Renewable and Sustainable Energy Reviews, 2012, 16, 5479-5484.	16.4	20
42	Improving distribution efficiency of electrical network using geo-electrical options: a case study in a rural area of Assam (India). Energy Efficiency, 2012, 5, 519-530.	2.8	1
43	Investigation of oxidation stability of <i>Terminalia belerica</i> biodiesel and its blends with petrodiesel. Fuel Processing Technology, 2012, 98, 51-58.	7.2	34
44	Assessment of tree seed oil biodiesel: A comparative review based on biodiesel of a locally available tree seed. Renewable and Sustainable Energy Reviews, 2012, 16, 1616-1629.	16.4	37
45	Performance and energy analyses of a diesel engine fuelled with Koroch seed oil methyl ester and its diesel fuel blends. International Journal of Energy Technology and Policy, 2011, 7, 433.	0.2	2
46	MODELING DESORPTION ISOTHERMS AND THERMODYNAMIC PROPERTIES OF ASSAM CTC MANUFACTURED FROM TEA CULTIVAR T3E3. Journal of Food Processing and Preservation, 2011, 35, 729-738.	2.0	1
47	Rice straw residue biomass potential for decentralized electricity generation: A GIS based study in Lakhimpur district of Assam, India. Energy for Sustainable Development, 2011, 15, 214-222.	4.5	51
48	The use of Koroch seed oil methyl ester blends as fuel in a diesel engine. Applied Energy, 2011, 88, 2713-2725.	10.1	62
49	Crop residue biomass for decentralized electrical power generation in rural areas (part 1): Investigation of spatial availability. Renewable and Sustainable Energy Reviews, 2011, 15, 1885-1892.	16.4	87
50	Comparative Analysis of Performance and Combustion of Koroch Seed Oil and <i>Jatropha</i> Methyl Ester blends in a Diesel Engine. , 2011, , .		1
51	A cycle simulation model for predicting the performance of a diesel engine fuelled by diesel and biodiesel blends. Energy, 2010, 35, 1317-1323.	8.8	79
52	Assessment of hydropower potential using GIS and hydrological modeling technique in Kopili River basin in Assam (India). Applied Energy, 2010, 87, 298-309.	10.1	150
53	Investigation of <i>terminalia</i> (<i>Terminalia belerica</i> Robx.) seed oil as prospective biodiesel source for North-East India. Fuel Processing Technology, 2009, 90, 1435-1441.	7.2	43
54	Energy demand forecast for mechanized agriculture in rural India. Energy Policy, 2008, 36, 2628-2636.	8.8	44

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55	Forecasting Energy Demand for Mechanized Agriculture in Rural India. , 2007, , .		0
56	An investigation into the energy use in relation to yield of rice (Oryza sativa) in Assam, India. Agriculture, Ecosystems and Environment, 2007, 120, 185-191.	5.3	27
57	Energy Requirement Model for a Combine Harvester, Part I: Development of Component Models. Biosystems Engineering, 2005, 90, 9-25.	4.3	20
58	Energy Requirement Model for Combine Harvester, Part 2: Integration of Component Models. Biosystems Engineering, 2005, 90, 161-171.	4.3	13
59	Present status and future demand for energy for bullock-operated paddy-farms in Assam (India). Applied Energy, 2004, 79, 145-157.	10.1	12