Edgard Gnansounou

List of Publications by Year
in descending order

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69	4,746	101496	143943
papers	citations	36 h-index	57 g-index

71	71	71	6127
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Semantic sustainability characterization of biorefineries: A logic-based model. , 2022, , 311-342.		1
2	General logic-based method for assessing the greenness of products and systems. , 2022, , 127-146.		0
3	Advancements in heavy metals removal from effluents employing nano-adsorbents: Way towards cleaner production. Environmental Research, 2022, 203, 111815.	3.7	58
4	Trends in mitigation of industrial waste: Global health hazards, environmental implications and waste derived economy for environmental sustainability. Science of the Total Environment, 2022, 811, 152357.	3.9	60
5	Modelling and process optimization for biodiesel production from Nannochloropsis salina using artificial neural network. Bioresource Technology, 2021, 329, 124872.	4.8	33
6	Current trends and possibilities for exploitation of Grape pomace as a potential source for value addition. Environmental Pollution, 2021, 278, 116796.	3.7	85
7	Biochar and environmental sustainability: Emerging trends and techno-economic perspectives. Bioresource Technology, 2021, 332, 125102.	4.8	66
8	Promising eco-friendly biomaterials for future biomedicine: Cleaner production and applications of Nanocellulose. Environmental Technology and Innovation, 2021, 24, 101855.	3.0	10
9	Biochemical conversion of biodiesel by-product into malic acid: A way towards sustainability. Science of the Total Environment, 2020, 709, 136206.	3.9	18
10	Agroresidue-based biorefineries. , 2020, , 243-258.		4
11	Process design, techno-economic, and life-cycle assessments of selected sugarcane-based biorefineries: a case study in the South African context. , 2020, , 567-597.		2
12	Systems Analysis and Life-Cycle Assessment for energy and environmental sustainability. Bioresource Technology, 2020, 317, 123988.	4.8	3
13	Green processing and biotechnological potential of grape pomace: Current trends and opportunities for sustainable biorefinery. Bioresource Technology, 2020, 314, 123771.	4.8	114
14	Using agricultural residues for sustainable transportation biofuels in 2050: Case of West Africa. Bioresource Technology, 2020, 305, 123080.	4.8	12
15	Synthesis of bioactive material by solâ€“gel process utilizing polymorphic calcium carbonate precipitate and their direct and indirect in-vitro cytotoxicity analysis. Environmental Technology and Innovation, 2020, 18, 100647.	3.0	11
16	Conversion of vine shoots into bioethanol and chemicals: Prospective LCA of biorefinery concept. Bioresource Technology, 2020, 303, 122946.	4.8	33
17	Critical overview of biomass feedstocks as sustainable substrates for the production of polyhydroxybutyrate (PHB). Bioresource Technology, 2020, 311, 123536.	4.8	148
18	Enzymes for second generation biofuels: Recent developments and future perspectives. Bioresource Technology Reports, 2019, 5, 317-325.	1.5	122

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19	Economic Assessment of Biofuels. , 2019, , 95-121.		3
20	Wide Scope Environmental Assessment of Biofuels. , 2019, , 163-196.		3
21	Integrated Sustainability Assessment of Biofuels. , 2019, , 197-214.		3
22	Recent advances in microbial production of malic acid from renewable byproducts. Reviews in Environmental Science and Biotechnology, 2019, 18, 579-595.	3.9	29
23	Bioethanol production from palm wood using Trichoderma reesei and Kluveromyces marxianus. Bioresource Technology, 2019, 271, 345-352.	4.8	58
24	An effective surfactant-assisted hydrothermal pretreatment strategy for bioethanol production from chili post-harvest residue by separate hydrolysis and fermentation. Bioprocess and Biosystems Engineering, 2018, 41, 565-571.	1.7	12
25	Sequestration and utilization of carbon dioxide by chemical and biological methods for biofuels and biomaterials by chemoautotrophs: Opportunities and challenges. Bioresource Technology, 2018, 256, 478-490.	4.8	126
26	Coproducts performances in biorefineries: Development of Claiming-based allocation models for environmental policy. Bioresource Technology, 2018, 254, 31-39.	4.8	11
27	Environmental performances of coproducts. Application of Claiming-Based Allocation models to straw and vetiver biorefineries in an Indian context. Bioresource Technology, 2018, 262, 203-211.	4.8	6
28	A review on moringa tree and vetiver grass â€“ Potential biorefinery feedstocks. Bioresource Technology, 2018, 249, 1044-1051.	4.8	41
29	Efficient detoxification of corn cob hydrolysate with ion-exchange resins for enhanced xylitol production by Candida tropicalis MTCC 6192. Bioresource Technology, 2018, 251, 416-419.	4.8	62
30	Bioethanol Production from Sugarcane Green Harvest Residues Using Auxin-Assisted Pretreatment. Energy, Environment, and Sustainability, 2018, , 423-439.	0.6	0
31	Techno-economic and life-cycle assessments of biorefineries based on palm empty fruit bunches in Brazil. Journal of Cleaner Production, 2018, 172, 3655-3668.	4.6	49
32	Transition of a South African sugar mill towards a biorefinery. A feasibility assessment. Applied Energy, 2018, 229, 1-17.	5.1	18
33	Bioconversion of pentose sugars to value added chemicals and fuels: Recent trends, challenges and possibilities. Bioresource Technology, 2018, 269, 443-451.	4.8	70
34	Water hyacinth a potential source for value addition: An overview. Bioresource Technology, 2017, 230, 152-162.	4.8	141
35	Development of a novel ultrasound-assisted alkali pretreatment strategy for the production of bioethanol and xylanases from chili post harvest residue. Bioresource Technology, 2017, 242, 146-151.	4.8	45
36	Comprehensive review on toxicity of persistent organic pollutants from petroleum refinery waste and their degradation by microorganisms. Chemosphere, 2017, 188, 280-291.	4.2	212

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37	Microbial dynamics in petroleum oilfields and their relationship with physiological properties of petroleum oil reservoirs. Bioresource Technology, 2017, 245, 1258-1265.	4.8	100
38	Comparative assessment of selected sugarcane biorefinery-centered systems in Brazil: A multi-criteria method based on sustainability indicators. Bioresource Technology, 2017, 243, 600-610.	4.8	24
39	Bioconversion of sugarcane crop residue for value added products â€“ An overview. Renewable Energy, 2016, 98, 203-215.	4.3	176
40	Life cycle assessment of algae biodiesel and its co-products. Applied Energy, 2016, 161, 300-308.	5.1	166
41	Development of a novel sequential pretreatment strategy for the production of bioethanol from sugarcane trash. Bioresource Technology, 2016, 199, 202-210.	4.8	88
42	LCA of bioethanol and furfural production from vetiver. Bioresource Technology, 2015, 185, 202-210.	4.8	40
43	Furfural production from empty fruit bunch â€“ A biorefinery approach. Industrial Crops and Products, 2015, 69, 371-377.	2.5	52
44	Comparative techno-economic assessment and LCA of selected integrated sugarcane-based biorefineries. Bioresource Technology, 2015, 196, 364-375.	4.8	90
45	A novel crude glycerol assisted surfactant pretreatment strategy of chili post-harvest residue for bioethanol production. Biofuels, 2015, 6, 383-390.	1.4	8
46	Impact of agricultural-based biofuel production on greenhouse gas emissions from land-use change: Key modelling choices. Renewable and Sustainable Energy Reviews, 2015, 42, 344-360.	8.2	38
47	Ethanol and lignin production from Brazilian empty fruit bunch biomass. Bioresource Technology, 2014, 172, 241-248.	4.8	23
48	Comparative life cycle assessment of biodiesel from algae and jatropha: A case study of India. Bioresource Technology, 2013, 150, 429-437.	4.8	64
49	Preface. Bioresource Technology, 2013, 150, 405-406.	4.8	0
50	Life cycle environmental impacts of a prospective palm-based biorefinery in ParÃ¡ State-Brazil. Bioresource Technology, 2013, 150, 438-446.	4.8	20
51	Estimating spillover benefits of large R&D projects: Application of real options modelling approach to the case of thermonuclear fusion R&D programme. Energy Policy, 2012, 41, 269-279.	4.2	15
52	Technoeconomic Analysis of Lignocellulosic Ethanol. , 2011, , 123-148.		13
53	Life-Cycle Assessment of Biofuels. , 2011, , 25-50.		5
54	Cyanobacteria and microalgae: A positive prospect for biofuels. Bioresource Technology, 2011, 102, 10163-10172.	4.8	455

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55	Protein extraction from biomass in a bioethanol refinery â€“ Possible dietary applications: Use as animal feed and potential extension to human consumption. Bioresource Technology, 2011, 102, 427-436.	4.8	88
56	Real options valuation of fusion energy R&D programme. Energy Policy, 2011, 39, 116-130.	4.2	26
57	Assessing the sustainability of biofuels: A logic-based model. Energy, 2011, 36, 2089-2096.	4.5	73
58	Methods and tools to evaluate the availability of renewable energy sources. Renewable and Sustainable Energy Reviews, 2011, 15, 1182-1200.	8.2	329
59	Vulnerability of the economy to the potential disturbances of energy supply: A logic-based model with application to the case of China. Energy Policy, 2010, 38, 2846-2857.	4.2	10
60	Production and use of lignocellulosic bioethanol in Europe: Current situation and perspectives. Bioresource Technology, 2010, 101, 4842-4850.	4.8	162
61	Techno-economic analysis of lignocellulosic ethanol: A review. Bioresource Technology, 2010, 101, 4980-4991.	4.8	371
62	Pretreatment of Douglas Fir Wood Biomass for Improving Saccharification Efficiencies. Journal of ASTM International, 2010, 7, 1-8.	0.2	0
63	Life cycle assessment of soybean-based biodiesel in Argentina for export. International Journal of Life Cycle Assessment, 2009, 14, 144-159.	2.2	145
64	GIS-based approach for defining bioenergy facilities location: A case study in Northern Spain based on marginal delivery costs and resources competition between facilities. Biomass and Bioenergy, 2008, 32, 289-300.	2.9	179
65	Assessing the energy vulnerability: Case of industrialised countries. Energy Policy, 2008, 36, 3734-3744.	4.2	182
66	Multi-Regional Long-Term Electricity Supply Scenarios with Fusion. Fusion Science and Technology, 2007, 52, 388-393.	0.6	4
67	Strategies for regional integration of electricity supply in West Africa. Energy Policy, 2007, 35, 4142-4153.	4.2	59
68	The strategic technology options for mitigating CO2 emissions in power sector: assessment of Shanghai electricity-generating system. Ecological Economics, 2004, 50, 117-133.	2.9	29
69	Opportunity for inter-regional integration of electricity markets: the case of Shandong and Shanghai in East China. Energy Policy, 2004, 32, 1737-1751.	4.2	40