

# CITATION REPORT

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## Anaerobic digestion of lignocellulosic biomass: challenges and opportunities

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#	Paper	IF	Citations
483	Combined Biogas and Bioethanol Production: Opportunities and Challenges for Industrial Application. <i>Energies</i> , <b>2015</b> , 8, 8121-8144	3.1	61
482	Enhanced Methane Production from Anaerobic Co-Digestion of Wheat Straw and Herbal-Extraction Process Residues. <b>2015</b> , 10,		5
481	A novel method for rapid determination of alpha-cellulose content in dissolving pulps by visible spectroscopy. <b>2015</b> , 22, 2149-2156		12
480	Anaerobic Digestion-Based Biorefinery for Bioenergy and Biobased Products. <b>2015</b> , 11, 103-112		43
479	Investigation of effect of particle size and rumen fluid addition on specific methane yields of high lignocellulose grass silage. <i>Bioresource Technology</i> , <b>2015</b> , 192, 266-71	11	35
478	New opportunities for agricultural digestate valorization: current situation and perspectives. <b>2015</b> , 8, 2600-2621		272
477	Potential biodiesel and biogas production from corncob by anaerobic fermentation and black soldier fly. <i>Bioresource Technology</i> , <b>2015</b> , 194, 276-82	11	81
476	Using feature objects aided strategy to evaluate the biomethane production of food waste and corn stalk anaerobic co-digestion. <i>Bioresource Technology</i> , <b>2015</b> , 179, 611-614	11	16
475	Fermentative biohydrogen production using hemicellulose fractions: Analytical validation for C5 and C6-sugars, acids and inhibitors by HPLC. <b>2015</b> , 40, 13888-13900		26
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313	Anaerobic digestion to reduce biomass and remove arsenic from As-hyperaccumulator <i>Pteris vittata</i> . <b>2019</b> , 250, 23-28		17
312	Anaerobic digestion of wheat straw and rape oil cake in a two-stage solid-state system. <i>Renewable Energy</i> , <b>2019</b> , 141, 359-367	8.1	6
311	Application of torrefaction for recycling bio-waste formed during anaerobic digestion. <b>2019</b> , 243, 230-239		17
310	A review of crop straw pretreatment methods for biogas production by anaerobic digestion in China. <b>2019</b> , 107, 51-58		132
309	The potential of biotechnology for mitigation of greenhouse gasses effects: solutions, challenges, and future perspectives. <b>2019</b> , 12, 1		3
308	Anaerobic digestion of various feedstocks for second-generation biofuel production. <b>2019</b> , 157-185		5
307	Simultaneous biogas and biogas slurry production from co-digestion of pig manure and corn straw: Performance optimization and microbial community shift. <i>Bioresource Technology</i> , <b>2019</b> , 282, 37-47	11	64
306	New trends in physicochemical characterization of solid lignocellulosic waste in anaerobic digestion. <b>2019</b> , 245, 240-246		17
305	Small scale biogas production with animal excrement and agricultural residues. <b>2019</b> , 131, 307-314		18

304	The comparison of single and double cut harvests on biomass yield, quality and biogas production of <i>Miscanthus giganteus</i> . <b>2019</b> , 65, 369-376		3
303	A Review on Anaerobic Digestion of Lignocellulosic Wastes: Pretreatments and Operational Conditions. <b>2019</b> , 9, 4655		25
302	. <b>2019</b> ,		
301	Pretreatment of Lignocellulosic Biomass with Cattle Rumen Fluid for Methane Production: Fate of Added Rumen Microbes and Indigenous Microbes of Methane Seed Sludge. <b>2019</b> , 34, 421-428		4
300	Evaluation of biogas production from co-digestion of pig dung, water hyacinth and poultry droppings. <b>2019</b> , 1, 271-277		4
299	Untargeted Metabolite Profiling for Screening Bioactive Compounds in Digestate of Manure under Anaerobic Digestion. <b>2019</b> , 11, 2420		8
298	Energy recovery from industrial crop wastes by dry anaerobic digestion: A review. <b>2019</b> , 129, 673-687		43
297	Hydrothermal pretreatment of source separated organics for enhanced solubilization and biomethane recovery. <i>Bioresource Technology</i> , <b>2019</b> , 274, 502-511	11	18
296	Synergistic effect of alkaline pretreatment and magnetite nanoparticle application on biogas production from rice straw. <i>Bioresource Technology</i> , <b>2019</b> , 275, 288-296	11	49
295	Thermodynamic and thermoeconomic analysis of basic and modified power generation systems fueled by biogas. <b>2019</b> , 181, 463-475		56
294	Catalytic dehydration of hexose sugars to 5-hydroxymethylfural. <b>2019</b> , 13, 153-173		28
293	Potential benefits of near critical and supercritical pre-treatment of lignocellulosic biomass towards anaerobic digestion. <b>2019</b> , 37, 74-82		19
292	Improving the Anaerobic Digestion of Switchgrass via Cofermentation of Rumen Microorganisms (Rumen Bacteria, Protozoa, and Fungi) and a Biogas Slurry. <b>2019</b> , 33, 1185-1195		5
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290	Fast anaerobic digestion of complex substrates via immobilized biofilms in a novel compartmentalized reactor design. <b>2019</b> , 143, 224-229		2
289	Effects of outdoor dry bale storage conditions on corn stover and the subsequent biogas production from anaerobic digestion. <i>Renewable Energy</i> , <b>2019</b> , 134, 276-283	8.1	5
288	Enzymatic pretreatment of lignocellulosic biomass for enhanced biomethane production-A review. <b>2019</b> , 233, 774-784		121
287	Effect of Individual Components of Lignocellulosic Biomass on Methane Production and Methanogen Community Structure. <b>2020</b> , 11, 1421-1433		4

286	Thermophilic solid state anaerobic digestion of switchgrass for liquid digestate reuse and organic fertilizer production. <b>2020</b> , 35, 503-512		3
285	Co-metabolic substrates enhanced biological nitrogen removal from cellulosic ethanol biorefinery wastewater using aerobic granular sludges. <b>2020</b> , 41, 389-399		1
284	Impact of salinity on anaerobic microbial community structure in high organic loading purified terephthalic acid wastewater treatment system. <b>2020</b> , 383, 121132		18
283	Optimizing Methane Production from Co-digestion of Cassava Biomass and Winery Solid Waste Using Response Surface Methodology. <b>2020</b> , 11, 4799-4808		2
282	Anaerobic digestion of Crassulacean Acid Metabolism plants: Exploring alternative feedstocks for semi-arid lands. <i>Bioresource Technology</i> , <b>2020</b> , 297, 122262	11	9
281	Enzymatic reactions in the production of biomethane from organic waste. <b>2020</b> , 132, 109410		8
280	Waste Management in MENA Regions. <b>2020</b> ,		5
279	Toward Three R <sup>2</sup> Agricultural Waste in MENA: Reduce, Reuse, and Recycle. <b>2020</b> , 337-353		2
278	Effects of fermentative and non-fermentative additives on silage quality and anaerobic digestion performance of Pennisetum purpureum. <i>Bioresource Technology</i> , <b>2020</b> , 297, 122425	11	15
277	Anaerobic digestion of chicken manure with sawdust and barley straw pre-treated by fungi. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 11, 2089	2,3	4
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275	Employing anaerobic fungi in biogas production: challenges & opportunities. <i>Bioresource Technology</i> , <b>2020</b> , 300, 122687	11	19
274	Pretreatment strategies for enhanced biogas production from lignocellulosic biomass. <i>Bioresource Technology</i> , <b>2020</b> , 301, 122725	11	167
273	Biotechnological utilization of animal gut microbiota for valorization of lignocellulosic biomass. <b>2020</b> , 104, 489-508		14
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269	Cyclic and safety utilisation of Cu polluted biogas residue in saline-alkali soil. <b>2020</b> , 704, 135410		6

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266	Microorganisms and Enzymes Used in the Biological Pretreatment of the Substrate to Enhance Biogas Production: A Review. <b>2020</b> , 12, 7205		23
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263	Effects of Adding Zero Valent Iron on the Anaerobic Digestion of Cow Manure and Lignocellulose. <b>2020</b> , 8, 590200		7
262	Valorization of municipal solid waste in biorefineries for the creation of a circular economy. <b>2020</b> , 323-347		1
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260	New Insights on the Estimation of the Anaerobic Biodegradability of Plant Material: Identifying Valuable Plants for Sustainable Energy Production. <b>2020</b> , 8, 806		4
259	Sustainable Production of Bioplastics from Lignocellulosic Biomass: Technoeconomic Analysis and Life-Cycle Assessment. <b>2020</b> , 8, 12419-12429		27
258	Assessment of Areal Methane Yields from Energy Crops in Ukraine, Best Practices. <b>2020</b> , 10, 4431		3
257	Harnessing bioenergy and high value-added products from rice residues: a review. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	7
256	Optimum Co-Digestion Ratio of Cattle Manure and Manipueira in a Single-Stage Anaerobic Digester for Biogas Production. <b>2020</b> , 48, 2000096		2
255	Improved biomethanation of horse manure through acid-thermal pretreatment and supplementation of iron nanoparticles under mesophilic and thermophilic conditions. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	1
254	Anaerobic fermentation of hybrid mixed with fruit and vegetable wastes to produce volatile fatty acids.. <b>2020</b> , 10, 33261-33267		1
253	The role of rice husk biochar addition in anaerobic digestion for sweet sorghum under high loading condition. <b>2020</b> , 27, e00515		11
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249	Comparing Low-Temperature Hydrothermal Pretreatments through Convective Heating versus Microwave Heating for Napier Grass Digestion. <b>2020</b> , 8, 1221		3
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244	Chemical and Bioenergetic Characterization of Biofuels from Plant Biomass: Perspectives for Southern Europe. <b>2020</b> , 10, 3571		5
243	Electrochemical capacitive performance of intact anaerobic granular sludge-based 3D bioanode. <b>2020</b> , 470, 228399		9
242	Anaerobic Digestion of Napier Grass ( <i>Pennisetum purpureum</i> ) in Two-Phase Dry Digestion System Versus Wet Digestion System. <b>2020</b> , 13, 853-865		8
241	Development of sustainable approaches for converting the organic waste to bioenergy. <b>2020</b> , 723, 138109		51
240	Acidogenic and methanogenic properties of corn straw silage: Regulation and microbial analysis of two-phase anaerobic digestion. <i>Bioresource Technology</i> , <b>2020</b> , 307, 123180	11	12
239	Proteomics of Lignocellulosic Substrates Bioconversion in Anaerobic Digesters to Increase Carbon Recovery as Methane. <b>2020</b> , 81-110		1
238	Valorisation of Agro-industrial Residues [Volume I: Biological Approaches. <b>2020</b> ,		4
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236	Biomass conversion processes. <b>2020</b> , 41-151		1
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234	Co-digestion of cow and sheep manure: Performance evaluation and relative microbial activity. <i>Renewable Energy</i> , <b>2020</b> , 153, 553-563	8.1	17
233	Kinetics and optimization of microwave-assisted lignin fractionation with Protic low transition temperature mixture of <i>Sesamum indicum</i> straw for enhanced bioethanol production. <b>2020</b> , 303, 112660		9

232	Recovery of the fibrolytic microorganisms from rumen fluid by flocculation for simultaneous treatment of lignocellulosic biomass and volatile fatty acid production. <i>Journal of Cleaner Production</i> , <b>2020</b> , 257, 120626	10.3	7
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229	Near complete valorisation of Hybrid pennisetum to biomethane and lignin nanoparticles based on gamma-valerolactone/water pretreatment. <i>Bioresource Technology</i> , <b>2020</b> , 305, 123040	11	12
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227	Anaerobic Co-Digestion of Wastewater Sludge: A Review of Potential Co-Substrates and Operating Factors for Improved Methane Yield. <b>2020</b> , 8, 39		67
226	Novel thermodynamic early warning method for anaerobic digestion failure of energy crops. <i>Bioresource Technology</i> , <b>2020</b> , 310, 123440	11	3
225	Enhancement of biogas production from rape straw using different co-pretreatment techniques and anaerobic co-digestion with cattle manure. <i>Bioresource Technology</i> , <b>2020</b> , 309, 123311	11	18
224	Simultaneous HS mitigation and methanization enhancement of chicken manure through the introduction of the micro-aeration approach. <b>2020</b> , 253, 126687		7
223	Achieve clean and efficient biomethane production by matching between digestate recirculation and straw-to-manure feeding ratios. <i>Journal of Cleaner Production</i> , <b>2020</b> , 263, 121414	10.3	8
222	Anaerobic Digestion of Fruit Waste Mixed With Sewage Sludge Digestate Biochar: Influence on Biomethane Production. <b>2020</b> , 8,		15
221	Hygienization and microbial metabolic adaptation during anaerobic co-digestion of swine manure and corn stover. <i>Bioresource Technology</i> , <b>2020</b> , 306, 123168	11	9
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219	Heterologous expression and biochemical characterization of a thermostable endo- $\beta$ -1,4-glucanase from <i>Colletotrichum orchidophilum</i> . <b>2021</b> , 44, 67-79		4
218	Screening design of nutritional and physicochemical parameters on bio-hydrogen and volatile fatty acids production from Citrus Peel Waste in batch reactors. <b>2021</b> , 46, 7794-7809		6
217	Effect of ultrasonic post-treatment on anaerobic digestion of lignocellulosic waste. <b>2021</b> , 39, 221-232		2
216	Recent advances and challenges of inter-disciplinary biomass valorization by integrating hydrothermal and biological techniques. <b>2021</b> , 135, 110370		52
215	Why can hydrothermally pretreating lignocellulose in low severities improve anaerobic digestion performances?. <b>2021</b> , 752, 141929		10



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213	Biogas production using dry fermentation technology through co-digestion of manure and agricultural wastes. <b>2021</b> , 23, 8746-8757		7
212	Impact of metallic nanoparticles on anaerobic digestion: A systematic review. <b>2021</b> , 757, 143747		24
211	Improving the biogas yield of manure: Effect of pretreatment on anaerobic digestion of the recalcitrant fraction of manure. <i>Bioresource Technology</i> , <b>2021</b> , 321, 124427	11	11
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209	Synergistic association between cytochrome bd-encoded Proteiniphilum and reactive oxygen species (ROS)-scavenging methanogens in microaerobic-anaerobic digestion of lignocellulosic biomass. <b>2021</b> , 190, 116721		21
208	The prospects of brewery waste application in biohydrogen production by photofermentation of <i>Rhodobacter sphaeroides</i> . <b>2021</b> , 46, 289-296		2
207	An overview of fungal pretreatment processes for anaerobic digestion: Applications, bottlenecks and future needs. <i>Bioresource Technology</i> , <b>2021</b> , 321, 124397	11	23
206	Status and perspectives of agricultural residues in a circular and resource-efficient context. <b>2021</b> , 49-102		1
205	The solid-state physicochemical properties and biogas production of the anaerobic digestion of corn straw pretreated by microwave irradiation.. <b>2021</b> , 11, 3575-3584		7
204	Optimization Issues of a Hammer Mill Working Process Using Statistical Modelling. <b>2021</b> , 13, 973		1
203	Fluorescence characteristics of dissolved organic matter during anaerobic digestion of oil crop straw inoculated with rumen liquid.. <b>2021</b> , 11, 14347-14356		3
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201	Liquid Hot Water Pretreatment for Lignocellulosic Biomass Biorefinery. <b>2021</b> , 81-109		
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199	Revisiting lignin: a tour through its structural features, characterization methods and applications. <b>2021</b> , 45, 6986-7013		23
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197	Energetic and Economic Evaluation of Zero-Waste Fish Co-Stream Processing. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	4

196	Natural Grasslands as Lignocellulosic Biofuel Resources: Factors Affecting Fermentable Sugar Production. <i>Energies</i> , <b>2021</b> , 14, 1312	3.1	1
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194	Complex chemical kinetic mechanism reduction for simultaneous catalytic oxidation and desulphurization of hydrogen sulphide. <b>2021</b> , 286, 119406		0
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191	Gasification of Biomass in Supercritical Water, Challenges for the Process Design Lessons Learned from the Operation Experience of the First Dedicated Pilot Plant. <b>2021</b> , 9, 455		9
190	A greener, mild, and efficient bioprocess for the pretreatment and saccharification of rice straw. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	3
189	Integrated sustainable process for polyhydroxyalkanoates production from lignocellulosic waste by purple phototrophic bacteria. <b>2021</b> , 13, 862-875		4
188	Biofuel for energy self-sufficiency in agricultural sector of Iran. <b>2021</b> , 44, 101069		1
187	Fermentation of Biodegradable Organic Waste by the Family Thermotogaceae. <b>2021</b> , 10, 34		4
186	Decentralized energy from portable biogas digesters using domestic kitchen waste: A review. <i>Waste Management</i> , <b>2021</b> , 125, 10-26	8.6	5
185	Pretreatments of wheat straw for possibility use in maintenance-free compressed green roof substrates. <b>2021</b> , 28, 5625		1
184	Contribution of Anaerobic Digestion Coupled with Algal System towards Zero Waste.		0
183	Improving anaerobic digestion of chicken manure under optimized biochar supplementation strategies. <i>Bioresource Technology</i> , <b>2021</b> , 325, 124697	11	14
182	Biogas production from small-scale anaerobic digestion plants on European farms. <b>2021</b> , 139, 110580		26
181	Facilitated lignocellulosic biomass digestibility in anaerobic digestion for biomethane production: microbial communities' structure and interactions. <b>2021</b> , 96, 1798-1817		2
180	Anaerobic digestion of elephant camp derived wastes: methane potential, kinetic study, and biorefinery platform. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	1
179	Effect of Semi-Continuous Anaerobic Digestion on the Substrate Solubilisation of Lignin-Rich Steam-Exploded <i>Ludwigia grandiflora</i> . <b>2021</b> , 11, 4452		1

178	Hydrolytic performances of different organic compounds in different lignocellulosic biomass during anaerobic digestion. <b>2022</b> , 27, 210013-0		
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175	Effect of microaerobic microbial pretreatment on anaerobic digestion of a lignocellulosic substrate under controlled pH conditions. <i>Bioresource Technology</i> , <b>2021</b> , 328, 124852	11	10
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172	Turn the wheel from waste to wealth: Economic and environmental gain of sustainable rice straw management practices over field burning in reference to India. <b>2021</b> , 775, 145896		9
171	Application of the linearized ADM1 (LADM) to lab-scale anaerobic digestion system. <b>2021</b> , 9, 105193		5
170	A Review on Bacterial Contribution to Lignocellulose Breakdown into Useful Bio-Products. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	7
169	Liquefaction of lignocellulosic biomass for methane production: A review. <i>Bioresource Technology</i> , <b>2021</b> , 332, 125068	11	13
168	Circular utilization of food waste to biochar enhances thermophilic co-digestion performance. <i>Bioresource Technology</i> , <b>2021</b> , 332, 125130	11	4
167	Forecasting the potential and economic feasibility of power generation using biogas from food waste in Ghana: Evidence from Accra and Kumasi. <b>2021</b> , 226, 120342		8
166	Process intensification for the recovery of methane-rich biogas from dry anaerobic digestion of alfalfa seeds. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	6
165	Conversion of biomass to biofuels and life cycle assessment: a review. <b>2021</b> , 19, 4075		52
164	Strategies to improve solid state anaerobic bioconversion of lignocellulosic biomass: an overview. <i>Bioresource Technology</i> , <b>2021</b> , 331, 125036	11	15
163	Digestion liquid based alkaline pretreatment of waste activated sludge promotes methane production from anaerobic digestion. <b>2021</b> , 199, 117198		26
162	Evaluation of lignin inhibition in anaerobic digestion from the perspective of reducing the hydrolysis rate of holocellulose. <i>Bioresource Technology</i> , <b>2021</b> , 333, 125204	11	3
161	Valorization of MacaBa husks from biodiesel production using subcritical water hydrolysis pretreatment followed by anaerobic digestion. <b>2021</b> , 9, 105656		6

160	Assessment of Coproduction of Ethanol and Methane from : Effects of Pretreatment, Process Performance, and Mass Balance.. <b>2021</b> , 9, 10771-10784		3
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158	Development of devices for the determination of the rheological properties of coarse biomass treated by dry anaerobic digestion. <b>2021</b> , 15, 100686		1
157	Construction of a novel microbial consortium valued for the effective degradation and detoxification of creosote-treated sawdust along with enhanced methane production. <b>2021</b> , 418, 126091		7
156	Wet organic waste treatment via hydrothermal processing: A critical review. <b>2021</b> , 279, 130557		16
155	Recovery processes of sustainable energy using different biomass and wastes. <b>2021</b> , 150, 111483		33
154	Effect of metal nanoparticles on microbial community shift and syntrophic metabolism during anaerobic digestion of <i>Azolla microphylla</i> . <b>2021</b> , 9, 105841		6
153	Anaerobic digestion beyond biogas. <i>Bioresource Technology</i> , <b>2021</b> , 337, 125378	11	6
152	Bioenergy from dairy manure: technologies, challenges and opportunities. <b>2021</b> , 790, 148199		4
151	Commercial biogas plants: Review on operational parameters and guide for performance optimization. <b>2021</b> , 303, 121282		9
150	Anaerobic digestion of waste activated sludge using dynamic membrane at varying substrate concentration reveals new insight towards methanogenic pathway and biofilm formation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 423, 130249	14.7	9
149	Solid-state anaerobic digestion of sugarcane bagasse at different solid concentrations: Impact of bio augmented cellulolytic bacteria on methane yield and insights on microbial diversity. <i>Bioresource Technology</i> , <b>2021</b> , 340, 125675	11	5
148	Co-digestion of microbial biomass with animal manure in three-stage anaerobic digestion. <b>2021</b> , 306, 121746		7
147	An application of the Life Cycle Thinking: Green refinery enhancements. <b>2021</b> , 305, 121559		1
146	Lytic polysaccharide monooxygenases (LPMOs) producing microbes: A novel approach for rapid recycling of agricultural wastes. <b>2022</b> , 806, 150451		2
145	In-situ microaeration of anaerobic digester treating buffalo manure for enhanced biogas yield. <i>Renewable Energy</i> , <b>2022</b> , 181, 843-850	8.1	2
144	Challenges and future perspectives involved for operations in the production of bioenergy from biomass. <b>2021</b> , 211-223		
143	Comparison of Operating Methods in Cartridge Anaerobic Digestion of Corn Stover. <b>2021</b> , 1-7		1

142	Natural deep eutectic solvents for sustainable extraction of pigments and antioxidants from agri-processing waste. <b>2021</b> , 747-785		
141	Characterization of efficient xylanases from industrial-scale pulp and paper wastewater treatment microbiota. <b>2021</b> , 11, 19		4
140	Two-Stage Process to Enhance Bio-hydrogen Production. <b>2019</b> , 149-179		2
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