Ming-Hsun Cheng

List of Publications by Citations

119 papers	2,119 citations	27 h-index	40 g-index
123 ext. papers	2,528 ext. citations	5.1 avg, IF	5.5 L-index

#	Paper	IF	Citations
119	Comparison of Modified Dry-Grind Corn Processes for Fermentation Characteristics and DDGS Composition. *Cereal Chemistry*, **2005**, 82, 187-190	2.4	89
118	Butanol production from food waste: a novel process for producing sustainable energy and reducing environmental pollution. *Biotechnology for Biofuels*, **2015**, 8, 147	7.8	88
117	Ethanol production from food waste at high solids content with vacuum recovery technology. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 2760-6	5.7	71
116	Techno-economic analysis of biodiesel and ethanol co-production from lipid-producing sugarcane. *Biofuels, Bioproducts and Biorefining*, **2016**, 10, 299-315	5.3	68
115	Engineering process and cost model for a conventional corn wet milling facility. *Industrial Crops and Products*, **2008**, 27, 91-97	5.9	64
114	Comparison of Raw Starch Hydrolyzing Enzyme with Conventional Liquefaction and Saccharification Enzymes in Dry-Grind Corn Processing. *Cereal Chemistry*, **2007**, 84, 10-14	2.4	62
113	Improvement of sugar yields from corn stover using sequential hot water pretreatment and disk milling. *Bioresource Technology*, **2016**, 216, 706-13	11	57
112	Autohydrolysis of Miscanthus x giganteus for the production of xylooligosaccharides (XOS): kinetics, characterization and recovery. *Bioresource Technology*, **2014**, 155, 359-65	11	56
111	Separation of Fiber from Distillers Dried Grains with Solubles (DDGS) Using Sieving and Elutriation. *Cereal Chemistry*, **2005**, 82, 528-533	2.4	53
110	Comparison of Enzymatic (E-Mill) and Conventional Dry-Grind Corn Processes Using a Granular Starch Hydrolyzing Enzyme. *Cereal Chemistry*, **2005**, 82, 734-738	2.4	53
109	Comparison of Yield and Composition of Oil Extracted from Corn Fiber and Corn Bran. *Cereal Chemistry*, **1999**, 76, 449-451	2.4	51
108	Economic feasibility analysis of soybean oil production by hexane extraction. *Industrial Crops and Products*, **2017**, 108, 775-785	5.9	49
107	Relationship of phenolic composition of selected purple maize (Zea mays L.) genotypes with their anti-inflammatory, anti-adipogenic and anti-diabetic potential. *Food Chemistry*, **2019**, 289, 739-750	8.5	41
106	Promise of combined hydrothermal/chemical and mechanical refining for pretreatment of woody and herbaceous biomass. *Biotechnology for Biofuels*, **2016**, 9, 97	7.8	41
105	A comparative study of anthocyanin distribution in purple and blue corn coproducts from three conventional fractionation processes. *Food Chemistry*, **2017**, 231, 332-339	8.5	40
104	Fermentation of undetoxified sugarcane bagasse hydrolyzates using a two stage hydrothermal and mechanical refining pretreatment. *Bioresource Technology*, **2018**, 261, 313-321	11	40
103	Evaluation and Strategies to Improve Fermentation Characteristics of Modified Dry-Grind Corn Processes. *Cereal Chemistry*, **2006**, 83, 455-459	2.4	40

102	Comparison Between Granular Starch Hydrolyzing Enzyme and Conventional Enzymes for Ethanol Production from Maize Starch with Different Amylose: Amylopectin Ratios. *Starch/Staerke*, **2007**, 59, 549-556	2.3	39
101	Enzymatic corn wet milling: engineering process and cost model. *Biotechnology for Biofuels*, **2009**, 2, 2	7.8	37
100	Dry-grind processing using amylase corn and superior yeast to reduce the exogenous enzyme requirements in bioethanol production. *Biotechnology for Biofuels*, **2016**, 9, 228	7.8	37
99	Effects of Ground Corn Particle Size on Ethanol Yield and Thin Stillage Soluble Solids. *Cereal Chemistry*, **2007**, 84, 6-9	2.4	35
98	Improving ethanol yields with deacetylated and two-stage pretreated corn stover and sugarcane bagasse by blending commercial xylose-fermenting and wild type Saccharomyces yeast. *Bioresource Technology*, **2019**, 282, 103-109	11	34
97	Changes in Lipid Composition During Dry Grind Ethanol Processing of Corn. *JAOCS, Journal of the American Oil ChemistssSociety*, **2011**, 88, 435-442	1.8	32
96	Towards oilcane: Engineering hyperaccumulation of triacylglycerol into sugarcane stems. *GCB Bioenergy*, **2020**, 12, 476-490	5.6	30
95	Biorefinery for combined production of jet fuel and ethanol from lipid-producing sugarcane: a techno-economic evaluation. *GCB Bioenergy*, **2018**, 10, 92-107	5.6	30
94	Bioactive compounds, nutritional benefits and food applications of colored wheat: a comprehensive review. *Critical Reviews in Food Science and Nutrition*, **2021**, 61, 3197-3210	11.5	28
93	Economic Analysis of Cellulosic Ethanol Production from Sugarcane Bagasse Using a Sequential Deacetylation, Hot Water and Disk-Refining Pretreatment. *Processes*, **2019**, 7, 642	2.9	27
92	Sugar production from bioenergy sorghum by using pilot scale continuous hydrothermal pretreatment combined with disk refining. *Bioresource Technology*, **2019**, 289, 121663	11	27
91	Environmental impact assessment of soybean oil production: Extruding-expelling process, hexane extraction and aqueous extraction. *Food and Bioproducts Processing*, **2018**, 108, 58-68	4.9	26
90	Effect of Aflatoxin B1 on Dry-Grind Ethanol Process. *Cereal Chemistry*, **2005**, 82, 302-304	2.4	26
89	Processing method and corn cultivar affected anthocyanin concentration from dried distillers grains with solubles. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 3205-18	5.7	25
88	Miscanthus giganteus xylooligosaccharides: Purification and fermentation. *Carbohydrate Polymers*, **2016**, 140, 96-103	10.3	25
87	Economic Feasibility of Soybean Oil Production by Enzyme-Assisted Aqueous Extraction Processing. *Food and Bioprocess Technology*, **2019**, 12, 539-550	5.1	24
86	The costs of sugar production from different feedstocks and processing technologies. *Biofuels, Bioproducts and Biorefining*, **2019**, 13, 723-739	5.3	24
85	Protease Treatment to Improve Ethanol Fermentation in Modified Dry Grind Corn Processes. *Cereal Chemistry*, **2009**, 86, 323-328	2.4	24

84	Economics of Fiber Separation from Distillers Dried Grains with Solubles (DDGS) Using Sieving and Elutriation. *Cereal Chemistry*, **2006**, 83, 324-330	2.4	24
83	High solids loading biorefinery for the production of cellulosic sugars from bioenergy sorghum. *Bioresource Technology*, **2020**, 318, 124051	11	24
82	Economics of plant oil recovery: A review. *Biocatalysis and Agricultural Biotechnology*, **2019**, 18, 101056	4.2	22
81	In Vitro Fermentation of Xylooligosaccharides Produced from Miscanthus giganteus by Human Fecal Microbiota. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 262-7	5.7	21
80	Effects of Protease and Urea on a Granular Starch Hydrolyzing Process for Corn Ethanol Production. *Cereal Chemistry*, **2009**, 86, 319-322	2.4	19
79	Use of Phytases in Ethanol Production from E-Mill Corn Processing. *Cereal Chemistry*, **2011**, 88, 223-227	2.4	19
78	Ethanol Production from Modified and Conventional Dry-Grind Processes Using Different Corn Types. *Cereal Chemistry*, **2009**, 86, 616-622	2.4	18
77	Impact of methanol addition strategy on enzymatic transesterification of jatropha oil for biodiesel processing. *Energy*, **2012**, 48, 375-379	7.9	17
76	Prediction of Starch Content and Ethanol Yields of Sorghum Grain Using near Infrared Spectroscopy. *Journal of Near Infrared Spectroscopy*, **2015**, 23, 85-92	1.5	16
75	Effect of Harvest Moisture Content on Selected Yellow Dent Corn: Dry-Grind Fermentation Characteristics and DDGS Composition. *Cereal Chemistry*, **2012**, 89, 217-221	2.4	16
74	Dry-Grind Processing of Corn with Endogenous Liquefaction Enzymes. *Cereal Chemistry*, **2006**, 83, 317-320	2.4	16
73	Biodiesel from oil produced in vegetative tissues of biomass - A review. *Bioresource Technology*, **2021**, 326, 124772	11	16
72	Germ soak water as nutrient source to improve fermentation of corn grits from modified corn dry grind process. *Bioresources and Bioprocessing*, **2017**, 4, 38	5.2	14
71	Technoeconomic Analysis of Biodiesel and Ethanol Production from Lipid-Producing Sugarcane and Sweet Sorghum. *Industrial Biotechnology*, **2016**, 12, 357-365	1.3	14
70	Production of xylose enriched hydrolysate from bioenergy sorghum and its conversion to β-carotene using an engineered Saccharomyces cerevisiae. *Bioresource Technology*, **2020**, 308, 123275	11	14
69	Increasing ethanol yield through fiber conversion in corn dry grind process. *Bioresource Technology*, **2018**, 270, 742-745	11	14
68	Evaluation of the quantity and composition of sugars and lipid in the juice and bagasse of lipid producing sugarcane. *Biocatalysis and Agricultural Biotechnology*, **2017**, 10, 148-155	4.2	13
67	Pericarp Fiber Separation from Corn Flour Using Sieving and Air Classification. *Cereal Chemistry*, **2008**, 85, 27-30	2.4	13

66	Hydrolysis and Fermentation of Pericarp and Endosperm Fibers Recovered from Enzymatic Corn Dry-Grind Process. *Cereal Chemistry*, **2005**, 82, 616-620	2.4	13
65	Variability in structural carbohydrates, lipid composition, and cellulosic sugar production from industrial hemp varieties. *Industrial Crops and Products*, **2020**, 157, 112906	5.9	13
64	Greenhouse gas emissions embedded in US-China fuel ethanol trade: A comparative well-to-wheel estimate. *Journal of Cleaner Production*, **2018**, 183, 653-661	10.3	12
63	Potential bioethanol production from Taiwanese chenopods (Chenopodium formosanum). *Energy*, **2014**, 76, 59-65	7.9	12
62	An enzymatic process for corn wet milling. *Advances in Food and Nutrition Research*, **2004**, 48, 151-71	6	12
61	Economic perspective of ethanol and biodiesel coproduction from industrial hemp. *Journal of Cleaner Production*, **2021**, 299, 126875	10.3	11
60	Bioprocessing and technoeconomic feasibility analysis of simultaneous production of d-psicose and ethanol using engineered yeast strain KAM-2GD. *Bioresource Technology*, **2019**, 275, 27-34	11	11
59	Effect of Mill Plate Setting and Number of Dynamic Steeping Stages for an Intermittent Milling and Dynamic Steeping (IMDS) Process for Corn. *Cereal Chemistry*, **2000**, 77, 209-212	2.4	10
58	Activating Effects of Phenolics from Apache Red L. on Free Fatty Acid Receptor 1 and Glucokinase Evaluated with a Dual Culture System with Epithelial, Pancreatic, and Liver Cells. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 9148-9159	5.7	10
57	Lifecycle energy consumption and greenhouse gas emissions from corncob ethanol in China. *Biofuels, Bioproducts and Biorefining*, **2018**, 12, 1037-1046	5.3	9
56	Effect of sulfur dioxide and lactic acid in steeping water on the extraction of anthocyanins and bioactives from purple corn pericarp. *Cereal Chemistry*, **2019**, 96, 575-589	2.4	8
55	Effects of genetic variation and growing condition of prairie cordgrass on feedstock composition and ethanol yield. *Bioresource Technology*, **2015**, 183, 70-7	11	8
54	Use of Pigmented Maize in Both Conventional Dry-Grind and Modified Processes Using Granular Starch Hydrolyzing Enzyme. *Cereal Chemistry*, **2016**, 93, 344-351	2.4	8
53	Impact of Fractionation Process on the Technical and Economic Viability of Corn Dry Grind Ethanol Process. *Processes*, **2019**, 7, 578	2.9	8
52	Fiber Separated from Distillers Dried Grains with Solubles as a Feedstock for Ethanol Production. *Cereal Chemistry*, **2007**, 84, 563-566	2.4	8
51	Bioconversion of Pelletized Big Bluestem, Switchgrass, and Low-Diversity Grass Mixtures Into Sugars and Bioethanol. *Frontiers in Energy Research*, **2018**, 6,	3.8	8
50	Impact of disk milling on corn stover pretreated at commercial scale. *Bioresource Technology*, **2017**, 232, 297-303	11	7
49	Fouling characteristics of model carbohydrate mixtures and their interaction effects. *Food and Bioproducts Processing*, **2015**, 93, 197-204	4.9	7

48	Physical properties that govern fiber separation from distillers dried grains with solubles (DDGS) using sieving and air classification. *Separation and Purification Technology*, **2008**, 61, 461-468	8.3	7
47	Field Productivities of Napier Grass for Production of Sugars and Ethanol. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 2052-2060	8.3	7
46	Techno-economic feasibility of phosphorus recovery as a coproduct from corn wet milling plants. *Cereal Chemistry*, **2019**, 96, 380-390	2.4	6
45	Profitability Analysis of Soybean Oil Processes. *Bioengineering*, **2017**, 4,	5.3	6
44	Improvement of Dry-Fractionation Ethanol Fermentation by Partial Germ Supplementation. *Cereal Chemistry*, **2015**, 92, 218-223	2.4	6
43	Bioconversion of Processing Waste from Agro-Food Industries to Bioethanol: Creating a Sustainable and Circular Economy **2020**, 161-181		6
42	Techno-Economic Analysis of Extruding-Expelling of Soybeans to Produce Oil and Meal. *Agriculture (Switzerland)*, **2019**, 9, 87	3	5
41	High-conversion hydrolysates and corn sweetener production in dry-grind corn process. *Cereal Chemistry*, **2018**, 95, 302-311	2.4	5
40	Corn Endosperm Fermentation Using Endogenous Amino Nitrogen Generated by a Fungal Protease. *Cereal Chemistry*, **2011**, 88, 117-123	2.4	5
39	Germ-Derived FAN as Nitrogen Source for Corn Endosperm Fermentation. *Cereal Chemistry*, **2011**, 88, 328-332	2.4	5
38	Phytosterol Distribution in Fractions Obtained from Processing of Distillers Dried Grains with Solubles Using Sieving and Elutriation. *Cereal Chemistry*, **2007**, 84, 626-630	2.4	5
37	Wet-Milling and Dry-Milling Properties of Dent Corn with Addition of Amylase Corn. *Cereal Chemistry*, **2006**, 83, 321-323	2.4	5
36	Recoveries of Oil and Hydrolyzed Sugars from Corn Germ Meal by Hydrothermal Pretreatment: A Model Feedstock for Lipid-Producing Energy Crops. *Energies*, **2020**, 13, 6022	3.1	5
35	Maize Proximate Composition and Physical Properties Correlations to Dry-Grind Ethanol Concentrations. *Cereal Chemistry*, **2016**, 93, 414-418	2.4	5
34	Balancing sugar recovery and inhibitor generation during energycane processing: Coupling cryogenic grinding with hydrothermal pretreatment at low temperatures. *Bioresource Technology*, **2021**, 321, 124424	11	5
33	Evaporator Fouling Tendencies of Thin Stillage and Concentrates From the Dry Grind Process. *Heat Transfer Engineering*, **2017**, 38, 743-752	1.7	4
32	Enzymatic Process for Corn Dry-Grind High-Solids Fermentation. *Cereal Chemistry*, **2011**, 88, 429-433	2.4	4
31	Influence of Stenocarpella maydis Infected Corn on the Composition of Corn Kernel and Its Conversion into Ethanol. *Cereal Chemistry*, **2012**, 89, 15-23	2.4	4

30	Enhancing ethanol yields in corn dry grind process by reducing glycerol production. *Cereal Chemistry*, **2020**, 97, 1026-1036	2.4	4
29	Techno-economic feasibility analysis of engineered energycane-based biorefinery co-producing biodiesel and ethanol. *GCB Bioenergy*, **2021**, 13, 1498-1514	5.6	4
28	Hydrothermal pretreatment for valorization of genetically engineered bioenergy crop for lipid and cellulosic sugar recovery. *Bioresource Technology*, **2021**, 341, 125817	11	4
27	Improvements in Corn to Ethanol Production Technology UsingSaccharomyces cerevisiae185-198		4
26	Recovering phosphorus as a coproduct from corn dry grind plants: A techno-economic evaluation. *Cereal Chemistry*, **2020**, 97, 449-458	2.4	3
25	Changes in Corn Protein Content During Storage and Their Relationship with Dry Grind Ethanol Production. *JAOCS, Journal of the American Oil ChemistssSociety*, **2018**, 95, 923-932	1.8	3
24	Conversion of High-Solids Hydrothermally Pretreated Bioenergy Sorghum to Lipids and Ethanol Using Yeast Cultures. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8515-8525	8.3	3
23	Fractionation of distillers dried grains with solubles (DDGS) by combination of sieving and aspiration. *Food and Bioproducts Processing*, **2017**, 103, 76-85	4.9	2
22	Identification of informative spectral ranges for predicting major chemical constituents in corn using NIR spectroscopy.. *Food Chemistry*, **2022**, 383, 132442	8.5	2
21	Improving Fermentation Rate during Use of Corn Grits in Beverage Alcohol Production. *Beverages*, **2019**, 5, 5	3.4	2
20	Optimization of two-stage pretreatment for maximizing ethanol production in 1.5G technology. *Bioresource Technology*, **2021**, 320, 124380	11	2
19	Comparison of Protein Concentrate, Protein Isolate and Wet Sieving Processes for Enriching DDGS Protein. *JAOCS, Journal of the American Oil ChemistssSociety*, **2014**, 91, 867-874	1.8	1
18	Laboratory Yields and Process Stream Compositions from E-Mill and Dry-Grind Corn Processes Using a Granular Starch Hydrolyzing Enzyme. *Cereal Chemistry*, **2010**, 87, 100-103	2.4	1
17	Chemical Free Two-Step Hydrothermal Pretreatment to Improve Sugar Yields from Energy Cane. *Energies*, **2020**, 13, 5805	3.1	1
16	Development and validation of time-domain 1H-NMR relaxometry correlation for high-throughput phenotyping method for lipid contents of lignocellulosic feedstocks. *GCB Bioenergy*, **2021**, 13, 1179-1190	5.6	1
15	American Energy Future: An Analysis of the Proposed Energy Policy Plans in Presidential Election. *Energies*, **2016**, 9, 1000	3.1	1
14	Improving dry-fractionated corn fermentation by supplementation of corn germ meal and pasta mill feed from agro-food industries. *Cereal Chemistry*, **2019**, 96, 243-251	2.4	1
13	Performance of glucoamylase self-producing eBOOSTGT yeast on ethanol production. *Cereal Chemistry*,	2.4	1

12	A study of moisture dependent changes in engineering properties and debranning characteristics of purple wheat. *Journal of Food Processing and Preservation*, **2021**, 45, e15916	2.1	1
11	Sustainable Platform Chemicals from Biomass **2020**, 157-184		1
10	Coprocessing Corn Germ Meal for Oil Recovery and Ethanol Production: A Process Model for Lipid-Producing Energy Crops. *Processes*, **2022**, 10, 661	2.9	1
9	Variability in composition of individual botanical fractions of Miscanthus □giganteus and their blends. *Biofuels*, **2015**, 6, 63-70	2	0
8	Phosphorus fractionation and protein content control chemical phosphorus removal from corn biorefinery streams. *Journal of Environmental Quality*, **2020**, 49, 220-227	3.4	0
7	Technical and economic feasibility of an integrated ethanol and anthocyanin coproduction process using purple corn stover. *Biofuels, Bioproducts and Biorefining*, **2021**, 15, 719-735	5.3	0
6	Process design and techno-economic analysis of 2'-fucosyllactose enriched distiller's dried grains with solubles production in dry grind ethanol process using genetically engineered Saccharomyces cerevisiae. *Bioresource Technology*, **2021**, 341, 125919	11	0
5	Crops □Cereals **2014**, 293-304		
4	Emerging Technologies in Dry Grind Ethanol Production239-247		
3	Wet milling characteristics of export commodity corn originating from different international geographical locations. *Cereal Chemistry*, **2021**, 98, 794-801	2.4	
2	Characterization of Amylose Lipid Complexes and Their Effect on the Dry Grind Ethanol Process. *Starch/Staerke*, **2021**, 73, 2100069	2.3	
1	Response surface methodology guided adsorption and recovery of free fatty acids from oil using resin. *Biofuels, Bioproducts and Biorefining*, **2021**, 15, 1485-1495	5.3	