

# Ming-Hsun Cheng

## List of Publications by Year in descending order

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116  
papers

2,961  
citations

136740

32  
h-index

214527

47  
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123  
all docs

123  
docs citations

123  
times ranked

2816  
citing authors

#	ARTICLE	IF	CITATIONS
1	Butanol production from food waste: a novel process for producing sustainable energy and reducing environmental pollution. <i>Biotechnology for Biofuels</i> , 2015, 8, 147.	6.2	110
2	Comparison of Modified Dry-Grind Corn Processes for Fermentation Characteristics and DDGS Composition. <i>Cereal Chemistry</i> , 2005, 82, 187-190.	1.1	109
3	Ethanol Production from Food Waste at High Solids Content with Vacuum Recovery Technology. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 2760-2766.	2.4	100
4	Techno-economic analysis of biodiesel and ethanol co-production from lipid-producing sugarcane. <i>Biofuels, Bioproducts and Biorefining</i> , 2016, 10, 299-315.	1.9	85
5	Improvement of sugar yields from corn stover using sequential hot water pretreatment and disk milling. <i>Bioresource Technology</i> , 2016, 216, 706-713.	4.8	80
6	Engineering process and cost model for a conventional corn wet milling facility. <i>Industrial Crops and Products</i> , 2008, 27, 91-97.	2.5	79
7	Separation of Fiber from Distillers Dried Grains with Solubles (DDGS) Using Sieving and Elutriation. <i>Cereal Chemistry</i> , 2005, 82, 528-533.	1.1	73
8	Relationship of phenolic composition of selected purple maize ( <i>Zea mays</i> L.) genotypes with their anti-inflammatory, anti-adipogenic and anti-diabetic potential. <i>Food Chemistry</i> , 2019, 289, 739-750.	4.2	71
9	Comparison of Raw Starch Hydrolyzing Enzyme with Conventional Liquefaction and Saccharification Enzymes in Dry-Grind Corn Processing. <i>Cereal Chemistry</i> , 2007, 84, 10-14.	1.1	70
10	Autohydrolysis of <i>Miscanthus x giganteus</i> for the production of xylooligosaccharides (XOS): Kinetics, characterization and recovery. <i>Bioresource Technology</i> , 2014, 155, 359-365.	4.8	69
11	Economic feasibility analysis of soybean oil production by hexane extraction. <i>Industrial Crops and Products</i> , 2017, 108, 775-785.	2.5	66
12	Bioactive compounds, nutritional benefits and food applications of colored wheat: a comprehensive review. <i>Critical Reviews in Food Science and Nutrition</i> , 2021, 61, 3197-3210.	5.4	65
13	Comparison of Yield and Composition of Oil Extracted from Corn Fiber and Corn Bran. <i>Cereal Chemistry</i> , 1999, 76, 449-451.	1.1	64
14	Fermentation of undetoxified sugarcane bagasse hydrolyzates using a two stage hydrothermal and mechanical refining pretreatment. <i>Bioresource Technology</i> , 2018, 261, 313-321.	4.8	62
15	Comparison of Enzymatic (E-Mill) and Conventional Dry-Grind Corn Processes Using a Granular Starch Hydrolyzing Enzyme. <i>Cereal Chemistry</i> , 2005, 82, 734-738.	1.1	59
16	A comparative study of anthocyanin distribution in purple and blue corn coproducts from three conventional fractionation processes. <i>Food Chemistry</i> , 2017, 231, 332-339.	4.2	56
17	Improving ethanol yields with deacetylated and two-stage pretreated corn stover and sugarcane bagasse by blending commercial xylose-fermenting and wild type <i>Saccharomyces</i> yeast. <i>Bioresource Technology</i> , 2019, 282, 103-109.	4.8	55
18	Towards oilcane: Engineering hyperaccumulation of triacylglycerol into sugarcane stems. <i>GCB Bioenergy</i> , 2020, 12, 476-490.	2.5	54

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19	Promise of combined hydrothermal/chemical and mechanical refining for pretreatment of woody and herbaceous biomass. <i>Biotechnology for Biofuels</i> , 2016, 9, 97.	6.2	49
20	The costs of sugar production from different feedstocks and processing technologies. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 723-739.	1.9	48
21	Dry-grind processing using amylase corn and superior yeast to reduce the exogenous enzyme requirements in bioethanol production. <i>Biotechnology for Biofuels</i> , 2016, 9, 228.	6.2	46
22	Evaluation and Strategies to Improve Fermentation Characteristics of Modified Dry-Grind Corn Processes. <i>Cereal Chemistry</i> , 2006, 83, 455-459.	1.1	45
23	Enzymatic corn wet milling: engineering process and cost model. <i>Biotechnology for Biofuels</i> , 2009, 2, 2.	6.2	44
24	Comparison Between Granular Starch Hydrolyzing Enzyme and Conventional Enzymes for Ethanol Production from Maize Starch with Different Amylose: Amylopectin Ratios. <i>Starch/Staerke</i> , 2007, 59, 549-556.	1.1	43
25	Sugar production from bioenergy sorghum by using pilot scale continuous hydrothermal pretreatment combined with disk refining. <i>Bioresource Technology</i> , 2019, 289, 121663.	4.8	42
26	High solids loading biorefinery for the production of cellulosic sugars from bioenergy sorghum. <i>Bioresource Technology</i> , 2020, 318, 124051.	4.8	41
27	Biorefinery for combined production of jet fuel and ethanol from lipid-producing sugarcane: a techno-economic evaluation. <i>GCB Bioenergy</i> , 2018, 10, 92-107.	2.5	40
28	Economic Feasibility of Soybean Oil Production by Enzyme-Assisted Aqueous Extraction Processing. <i>Food and Bioprocess Technology</i> , 2019, 12, 539-550.	2.6	40
29	Effects of Ground Corn Particle Size on Ethanol Yield and Thin Stillage Soluble Solids. <i>Cereal Chemistry</i> , 2007, 84, 6-9.	1.1	39
30	Changes in Lipid Composition During Dry Grind Ethanol Processing of Corn. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2011, 88, 435-442.	0.8	39
31	Environmental impact assessment of soybean oil production: Extruding-expelling process, hexane extraction and aqueous extraction. <i>Food and Bioproducts Processing</i> , 2018, 108, 58-68.	1.8	38
32	Economic Analysis of Cellulosic Ethanol Production from Sugarcane Bagasse Using a Sequential Deacetylation, Hot Water and Disk-Refining Pretreatment. <i>Processes</i> , 2019, 7, 642.	1.3	37
33	Biodiesel from oil produced in vegetative tissues of biomass – A review. <i>Bioresource Technology</i> , 2021, 326, 124772.	4.8	36
34	Economics of Fiber Separation from Distillers Dried Grains with Solubles (DDGS) Using Sieving and Elutriation. <i>Cereal Chemistry</i> , 2006, 83, 324-330.	1.1	33
35	<i>Miscanthus</i> —giganteus xylooligosaccharides: Purification and fermentation. <i>Carbohydrate Polymers</i> , 2016, 140, 96-103.	5.1	33
36	Economics of plant oil recovery: A review. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 18, 101056.	1.5	32

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37	Effect of Aflatoxin B1 on Dry-Grind Ethanol Process. <i>Cereal Chemistry</i> , 2005, 82, 302-304.	1.1	29
38	Processing Method and Corn Cultivar Affected Anthocyanin Concentration from Dried Distillers Grains with Solubles. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 3205-3218.	2.4	28
39	Economic perspective of ethanol and biodiesel coproduction from industrial hemp. <i>Journal of Cleaner Production</i> , 2021, 299, 126875.	4.6	28
40	Production of xylose enriched hydrolysate from bioenergy sorghum and its conversion to $\beta$ -carotene using an engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2020, 308, 123275.	4.8	26
41	Protease Treatment to Improve Ethanol Fermentation in Modified Dry Grind Corn Processes. <i>Cereal Chemistry</i> , 2009, 86, 323-328.	1.1	25
42	In Vitro Fermentation of Xylooligosaccharides Produced from <i>Miscanthus giganteus</i> by Human Fecal Microbiota. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 262-267.	2.4	25
43	Impact of methanol addition strategy on enzymatic transesterification of jatropha oil for biodiesel processing. <i>Energy</i> , 2012, 48, 375-379.	4.5	22
44	Increasing ethanol yield through fiber conversion in corn dry grind process. <i>Bioresource Technology</i> , 2018, 270, 742-745.	4.8	21
45	Balancing sugar recovery and inhibitor generation during energycane processing: Coupling cryogenic grinding with hydrothermal pretreatment at low temperatures. <i>Bioresource Technology</i> , 2021, 321, 124424.	4.8	21
46	Use of Phytases in Ethanol Production from Mill Corn Processing. <i>Cereal Chemistry</i> , 2011, 88, 223-227.	1.1	20
47	Prediction of Starch Content and Ethanol Yields of Sorghum Grain Using near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2015, 23, 85-92.	0.8	20
48	Greenhouse gas emissions embedded in US-China fuel ethanol trade: A comparative well-to-wheel estimate. <i>Journal of Cleaner Production</i> , 2018, 183, 653-661.	4.6	20
49	Lifecycle energy consumption and greenhouse gas emissions from corn cob ethanol in China. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 1037-1046.	1.9	20
50	Variability in structural carbohydrates, lipid composition, and cellulosic sugar production from industrial hemp varieties. <i>Industrial Crops and Products</i> , 2020, 157, 112906.	2.5	20
51	Dry-Grind Processing of Corn with Endogenous Liquefaction Enzymes. <i>Cereal Chemistry</i> , 2006, 83, 317-320.	1.1	19
52	Effects of Protease and Urea on a Granular Starch Hydrolyzing Process for Corn Ethanol Production. <i>Cereal Chemistry</i> , 2009, 86, 319-322.	1.1	19
53	Ethanol Production from Modified and Conventional Dry-Grind Processes Using Different Corn Types. <i>Cereal Chemistry</i> , 2009, 86, 616-622.	1.1	18
54	Potential bioethanol production from Taiwanese chenopods ( <i>Chenopodium formosanum</i> ). <i>Energy</i> , 2014, 76, 59-65.	4.5	18

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55	Evaluation of the quantity and composition of sugars and lipid in the juice and bagasse of lipid producing sugarcane. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017, 10, 148-155.	1.5	18
56	Pericarp Fiber Separation from Corn Flour Using Sieving and Air Classification. <i>Cereal Chemistry</i> , 2008, 85, 27-30.	1.1	16
57	Effect of Harvest Moisture Content on Selected Yellow Dent Corn: Dry-Grind Fermentation Characteristics and DDGS Composition. <i>Cereal Chemistry</i> , 2012, 89, 217-221.	1.1	16
58	Technoeconomic Analysis of Biodiesel and Ethanol Production from Lipid-Producing Sugarcane and Sweet Sorghum. <i>Industrial Biotechnology</i> , 2016, 12, 357-365.	0.5	16
59	Germ soak water as nutrient source to improve fermentation of corn grits from modified corn dry grind process. <i>Bioresources and Bioprocessing</i> , 2017, 4, 38.	2.0	16
60	Hydrothermal pretreatment for valorization of genetically engineered bioenergy crop for lipid and cellulosic sugar recovery. <i>Bioresource Technology</i> , 2021, 341, 125817.	4.8	15
61	Bioconversion of Pelletized Big Bluestem, Switchgrass, and Low-Diversity Grass Mixtures Into Sugars and Bioethanol. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	14
62	Technoeconomic feasibility of phosphorus recovery as a coproduct from corn wet milling plants. <i>Cereal Chemistry</i> , 2019, 96, 380-390.	1.1	14
63	Bioprocessing and technoeconomic feasibility analysis of simultaneous production of d-psicose and ethanol using engineered yeast strain KAM-2GD. <i>Bioresource Technology</i> , 2019, 275, 27-34.	4.8	14
64	Identification of informative spectral ranges for predicting major chemical constituents in corn using NIR spectroscopy. <i>Food Chemistry</i> , 2022, 383, 132442.	4.2	14
65	Hydrolysis and Fermentation of Pericarp and Endosperm Fibers Recovered from Enzymatic Corn Dry-Grind Process. <i>Cereal Chemistry</i> , 2005, 82, 616-620.	1.1	13
66	Conversion of High-Solids Hydrothermally Pretreated Bioenergy Sorghum to Lipids and Ethanol Using Yeast Cultures. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8515-8525.	3.2	13
67	Effect of Mill Plate Setting and Number of Dynamic Steeping Stages for an Intermittent Milling and Dynamic Steeping (IMDS) Process for Corn. <i>Cereal Chemistry</i> , 2000, 77, 209-212.	1.1	12
68	An Enzymatic Process for Corn Wet Milling. <i>Advances in Food and Nutrition Research</i> , 2004, 48, 151-171.	1.5	12
69	Physical properties that govern fiber separation from distillers dried grains with solubles (DDGS) using sieving and air classification. <i>Separation and Purification Technology</i> , 2008, 61, 461-468.	3.9	12
70	Effect of sulfur dioxide and lactic acid in steeping water on the extraction of anthocyanins and bioactives from purple corn pericarp. <i>Cereal Chemistry</i> , 2019, 96, 575-589.	1.1	12
71	Activating Effects of Phenolics from Apache Red <i>Zea mays</i> L. on Free Fatty Acid Receptor 1 and Glucokinase Evaluated with a Dual Culture System with Epithelial, Pancreatic, and Liver Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9148-9159.	2.4	12
72	Field Productivities of Napier Grass for Production of Sugars and Ethanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2052-2060.	3.2	12

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73	Techno-economic feasibility analysis of engineered energycane-based biorefinery co-producing biodiesel and ethanol. <i>GCB Bioenergy</i> , 2021, 13, 1498-1514.	2.5	12
74	Impact of Fractionation Process on the Technical and Economic Viability of Corn Dry Grind Ethanol Process. <i>Processes</i> , 2019, 7, 578.	1.3	11
75	Optimization of two-stage pretreatment for maximizing ethanol production in 1.5G technology. <i>Bioresource Technology</i> , 2021, 320, 124380.	4.8	11
76	Fiber Separated from Distillers Dried Grains with Solubles as a Feedstock for Ethanol Production. <i>Cereal Chemistry</i> , 2007, 84, 563-566.	1.1	10
77	Techno-Economic Analysis of Extruding-Expelling of Soybeans to Produce Oil and Meal. <i>Agriculture (Switzerland)</i> , 2019, 9, 87.	1.4	10
78	Recovering phosphorus as a coproduct from corn dry grind plants: A techno-economic evaluation. <i>Cereal Chemistry</i> , 2020, 97, 449-458.	1.1	10
79	Effects of genetic variation and growing condition of prairie cordgrass on feedstock composition and ethanol yield. <i>Bioresource Technology</i> , 2015, 183, 70-77.	4.8	9
80	Fouling characteristics of model carbohydrate mixtures and their interaction effects. <i>Food and Bioproducts Processing</i> , 2015, 93, 197-204.	1.8	9
81	Use of Pigmented Maize in Both Conventional Dry-Grind and Modified Processes Using Granular Starch Hydrolyzing Enzyme. <i>Cereal Chemistry</i> , 2016, 93, 344-351.	1.1	9
82	Profitability Analysis of Soybean Oil Processes. <i>Bioengineering</i> , 2017, 4, 83.	1.6	9
83	Phytosterol Distribution in Fractions Obtained from Processing of Distillers Dried Grains with Solubles Using Sieving and Elutriation. <i>Cereal Chemistry</i> , 2007, 84, 626-630.	1.1	8
84	Enhancing ethanol yields in corn dry grind process by reducing glycerol production. <i>Cereal Chemistry</i> , 2020, 97, 1026-1036.	1.1	8
85	Wet-Milling and Dry-Milling Properties of Dent Corn with Addition of Amylase Corn. <i>Cereal Chemistry</i> , 2006, 83, 321-323.	1.1	7
86	Improvement of Dry-Fractionation Ethanol Fermentation by Partial Germ Supplementation. <i>Cereal Chemistry</i> , 2015, 92, 218-223.	1.1	7
87	Impact of disk milling on corn stover pretreated at commercial scale. <i>Bioresource Technology</i> , 2017, 232, 297-303.	4.8	7
88	Recoveries of Oil and Hydrolyzed Sugars from Corn Germ Meal by Hydrothermal Pretreatment: A Model Feedstock for Lipid-Producing Energy Crops. <i>Energies</i> , 2020, 13, 6022.	1.6	7
89	Enzymatic Process for Corn Dry-Grind High-Solids Fermentation. <i>Cereal Chemistry</i> , 2011, 88, 429-433.	1.1	6
90	Chemical Free Two-Step Hydrothermal Pretreatment to Improve Sugar Yields from Energy Cane. <i>Energies</i> , 2020, 13, 5805.	1.6	6

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91	A study of moisture dependent changes in engineering properties and debranning characteristics of purple wheat. <i>Journal of Food Processing and Preservation</i> , 2021, 45, e15916.	0.9	6
92	Germanium-Derived FAN as Nitrogen Source for Corn Endosperm Fermentation. <i>Cereal Chemistry</i> , 2011, 88, 328-332.	1.1	5
93	Corn Endosperm Fermentation Using Endogenous Amino Nitrogen Generated by a Fungal Protease. <i>Cereal Chemistry</i> , 2011, 88, 117-123.	1.1	5
94	Influence of <i>Stenocarpella maydis</i> Infected Corn on the Composition of Corn Kernel and Its Conversion into Ethanol. <i>Cereal Chemistry</i> , 2012, 89, 15-23.	1.1	5
95	Maize Proximate Composition and Physical Properties Correlations to Dry-Grind Ethanol Concentrations. <i>Cereal Chemistry</i> , 2016, 93, 414-418.	1.1	5
96	Evaporator Fouling Tendencies of Thin Stillage and Concentrates From the Dry Grind Process. <i>Heat Transfer Engineering</i> , 2017, 38, 743-752.	1.2	5
97	High-conversion hydrolysates and corn sweetener production in dry-grind corn process. <i>Cereal Chemistry</i> , 2018, 95, 302-311.	1.1	5
98	Changes in Corn Protein Content During Storage and Their Relationship with Dry Grind Ethanol Production. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2018, 95, 923-932.	0.8	5
99	Technical and economic feasibility of an integrated ethanol and anthocyanin coproduction process using purple corn stover. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 719-735.	1.9	5
100	Development and validation of time-domain $<sup>1</sup>H-NMR$ relaxometry correlation for high-throughput phenotyping method for lipid contents of lignocellulosic feedstocks. <i>GCB Bioenergy</i> , 2021, 13, 1179-1190.	2.5	5
101	Mapping the National Phosphorus Recovery Potential from Centralized Wastewater and Corn Ethanol Infrastructure. <i>Environmental Science &amp; Technology</i> , 2022, 56, 8691-8701.	4.6	5
102	Improving Fermentation Rate during Use of Corn Grits in Beverage Alcohol Production. <i>Beverages</i> , 2019, 5, 5.	1.3	4
103	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 <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2021, 341, 125919.	4.8	4
104	Phosphorus fractionation and protein content control chemical phosphorus removal from corn biorefinery streams. <i>Journal of Environmental Quality</i> , 2020, 49, 220-227.	1.0	3
105	Wet milling characteristics of export commodity corn originating from different international geographical locations. <i>Cereal Chemistry</i> , 2021, 98, 794-801.	1.1	3
106	Enzymatic hydrolysis and fermentation of soy flour to produce ethanol and soy protein concentrate with increased polyphenols. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2022, 99, 379-391.	0.8	3
107	Laboratory Yields and Process Stream Compositions from E-Mill and Dry-Grind Corn Processes Using a Granular Starch Hydrolyzing Enzyme. <i>Cereal Chemistry</i> , 2010, 87, 100-103.	1.1	2
108	Variability in composition of individual botanical fractions of <i>Miscanthus giganteus</i> and their blends. <i>Biofuels</i> , 2015, 6, 63-70.	1.4	2

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109	Americanâ€™s Energy Future: An Analysis of the Proposed Energy Policy Plans in Presidential Election. <i>Energies</i> , 2016, 9, 1000.	1.6	2
110	Fractionation of distillers dried grains with solubles (DDGS) by combination of sieving and aspiration. <i>Food and Bioproducts Processing</i> , 2017, 103, 76-85.	1.8	2
111	Coprocessing Corn Germ Meal for Oil Recovery and Ethanol Production: A Process Model for Lipid-Producing Energy Crops. <i>Processes</i> , 2022, 10, 661.	1.3	2
112	Comparison of Protein Concentrate, Protein Isolate and Wet Sieving Processes for Enriching DDGS Protein. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2014, 91, 867-874.	0.8	1
113	Improving dryâ€fractionated corn fermentation by supplementation of corn germ meal and pasta mill feed from agroâ€food industries. <i>Cereal Chemistry</i> , 2019, 96, 243-251.	1.1	1
114	Performance of glucoamylase selfâ€producing eBOOSTâ„¢, Ç GT yeast on ethanol production. <i>Cereal Chemistry</i> , 0, , .	1.1	1
115	Characterization of Amylose Lipid Complexes and Their Effect on the Dry Grind Ethanol Process. <i>Starch/Staerke</i> , 2021, 73, 2100069.	1.1	0
116	Response surface methodology guided adsorption and recovery of free fatty acids from oil using resin. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 1485-1495.	1.9	0