

Vijay Singh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

2,103
citations

25
h-index

41
g-index

95
ext. papers

2,329
ext. citations

3.7
avg, IF

4.97
L-index

#	Paper	IF	Citations
94	Emerging waste valorisation techniques to moderate the hazardous impacts, and their path towards sustainability. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127023	12.8	8
93	Wet milling characteristics of export commodity corn originating from different international geographical locations. <i>Cereal Chemistry</i> , 2021 , 98, 794-801	2.4	
92	Wet milling characteristics of corn mutants using modified processes and improving starch yields from high amylose corn. <i>Food and Bioproducts Processing</i> , 2021 , 126, 104-112	4.9	3
91	Optimization of two-stage pretreatment for maximizing ethanol production in 1.5G technology. <i>Bioresource Technology</i> , 2021 , 320, 124380	11	2
90	Recovering phosphorus as a coproduct from corn dry grind plants: A techno-economic evaluation. <i>Cereal Chemistry</i> , 2020 , 97, 449-458	2.4	3
89	Bioconversion of Processing Waste from Agro-Food Industries to Bioethanol: Creating a Sustainable and Circular Economy 2020 , 161-181		6
88	Improving technical and economic feasibility of water based anthocyanin recovery from purple corn using staged extraction approach. <i>Industrial Crops and Products</i> , 2020 , 158, 112976	5.9	10
87	Enhancing ethanol yields in corn dry grind process by reducing glycerol production. <i>Cereal Chemistry</i> , 2020 , 97, 1026-1036	2.4	4
86	The costs of sugar production from different feedstocks and processing technologies. <i>Biofuels, Bioproducts and Biorefining</i> , 2019 , 13, 723-739	5.3	24
85	Techno-economic feasibility of phosphorus recovery as a coproduct from corn wet milling plants. <i>Cereal Chemistry</i> , 2019 , 96, 380-390	2.4	6
84	Impact of Fractionation Process on the Technical and Economic Viability of Corn Dry Grind Ethanol Process. <i>Processes</i> , 2019 , 7, 578	2.9	8
83	Measurement and Maintenance of Corn Quality 2019 , 165-211		6
82	Bioethanol Production From Corn 2019 , 615-631		14
81	Techno-economic feasibility analysis of blue and purple corn processing for anthocyanin extraction and ethanol production using modified dry grind process. <i>Industrial Crops and Products</i> , 2018 , 115, 78-87	5.9	33
80	Fermentation technology to improve productivity in dry grind corn process for bioethanol production. <i>Fuel Processing Technology</i> , 2018 , 173, 66-74	7.2	15
79	High-conversion hydrolysates and corn sweetener production in dry-grind corn process. <i>Cereal Chemistry</i> , 2018 , 95, 302-311	2.4	5
78	Changes in Corn Protein Content During Storage and Their Relationship with Dry Grind Ethanol Production. <i>JAOCS, Journal of the American Oil Chemistst Society</i> , 2018 , 95, 923-932	1.8	3

77	Comparison of Cassava Starch with Corn as a Feedstock for Bioethanol Production. <i>Energies</i> , 2018 , 11, 3476	3.1	19
76	Ethanol Production from Corn Fiber Separated after Liquefaction in the Dry Grind Process. <i>Energies</i> , 2018 , 11, 2921	3.1	11
75	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	4.2	13
74	Ethanol yields and elevated amino acids in distillers dried grains with solubles from maize grain with higher concentrations of essential amino acids. <i>Industrial Crops and Products</i> , 2017 , 103, 244-250	5.9	5
73	Miscanthus giganteus xylooligosaccharides: Purification and fermentation. <i>Carbohydrate Polymers</i> , 2016 , 140, 96-103	10.3	25
72	In Vitro Fermentation of Xylooligosaccharides Produced from Miscanthus giganteus by Human Fecal Microbiota. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 262-7	5.7	21
71	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	2.4	8
70	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	7.8	37
69	Coproduct yield comparisons of purple, blue and yellow dent corn for various milling processes. <i>Industrial Crops and Products</i> , 2016 , 87, 266-272	5.9	36
68	A whole stillage sieving process to recover fiber for cellulosic ethanol production. <i>Industrial Crops and Products</i> , 2016 , 92, 271-276	5.9	10
67	Variability in composition of individual botanical fractions of Miscanthus giganteus and their blends. <i>Biofuels</i> , 2015 , 6, 63-70	2	0
66	Ethanol production from food waste at high solids content with vacuum recovery technology. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 2760-6	5.7	71
65	Butanol production from food waste: a novel process for producing sustainable energy and reducing environmental pollution. <i>Biotechnology for Biofuels</i> , 2015 , 8, 147	7.8	88
64	Improvement of Dry-Fractionation Ethanol Fermentation by Partial Germ Supplementation. <i>Cereal Chemistry</i> , 2015 , 92, 218-223	2.4	6
63	Separation of xylose oligomers from autohydrolyzed Miscanthus giganteus using centrifugal partition chromatography. <i>Food and Bioprocess Processing</i> , 2015 , 95, 125-132	4.9	10
62	Effect of harvest maturity on carbohydrates for ethanol production from sugar enhanced temperate/tropical maize hybrid. <i>Industrial Crops and Products</i> , 2014 , 60, 266-272	5.9	6
61	Vacuum stripping of ethanol during high solids fermentation of corn. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 173, 486-500	3.2	22
60	Crops [Cereals 2014 , 293-304		

59	Comparison of Protein Concentrate, Protein Isolate and Wet Sieving Processes for Enriching DDGS Protein. <i>JAOCS, Journal of the American Oil ChemiststSociety</i> , 2014 , 91, 867-874	1.8	1
58	Use of tropical maize for bioethanol production. <i>World Journal of Microbiology and Biotechnology</i> , 2013 , 29, 1509-15	4.4	20
57	Effect of particle size on enzymatic hydrolysis of pretreated Miscanthus. <i>Industrial Crops and Products</i> , 2013 , 44, 11-17	5.9	50
56	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	2.4	16
55	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	2.4	4
54	Corn Endosperm Fermentation Using Endogenous Amino Nitrogen Generated by a Fungal Protease. <i>Cereal Chemistry</i> , 2011 , 88, 117-123	2.4	5
53	Enzymatic Process for Corn Dry-Grind High-Solids Fermentation. <i>Cereal Chemistry</i> , 2011 , 88, 429-433	2.4	4
52	Ultrafiltration of thin stillage from conventional and e-mill dry grind processes. <i>Applied Biochemistry and Biotechnology</i> , 2011 , 164, 58-67	3.2	4
51	Influence of feedstock particle size on lignocellulose conversion--a review. <i>Applied Biochemistry and Biotechnology</i> , 2011 , 164, 1405-21	3.2	134
50	Changes in Lipid Composition During Dry Grind Ethanol Processing of Corn. <i>JAOCS, Journal of the American Oil ChemiststSociety</i> , 2011 , 88, 435-442	1.8	32
49	Germ-Derived FAN as Nitrogen Source for Corn Endosperm Fermentation. <i>Cereal Chemistry</i> , 2011 , 88, 328-332	2.4	5
48	Use of Phytases in Ethanol Production from E-Mill Corn Processing. <i>Cereal Chemistry</i> , 2011 , 88, 223-227	2.4	19
47	ORIGINAL RESEARCH: Enzymatic corn wet milling process: Enzyme optimization & commercial trial. <i>Industrial Biotechnology</i> , 2010 , 6, 34-40	1.3	5
46	Ethanol: Corn Processing 2010 , 414-423		1
45	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	2.4	1
44	Corn Kernel Oil and Corn Fiber Oil 2009 , 409-431		3
43	Effects of Protease and Urea on a Granular Starch Hydrolyzing Process for Corn Ethanol Production. <i>Cereal Chemistry</i> , 2009 , 86, 319-322	2.4	19
42	Ethanol Production from Modified and Conventional Dry-Grind Processes Using Different Corn Types. <i>Cereal Chemistry</i> , 2009 , 86, 616-622	2.4	18

41	Determining Corn Germ and Pericarp Residual Starch by Acid Hydrolysis. <i>Cereal Chemistry</i> , 2009 , 86, 133-135	2.5	34
40	Evaluation of a dry corn fractionation process for ethanol production with different hybrids. <i>Industrial Crops and Products</i> , 2009 , 29, 67-72	5.9	23
39	Kinetics of Granular Starch Hydrolysis in Corn Dry-Grind Process. <i>Starch/Staerke</i> , 2009 , 61, 448-456	2.3	14
38	Enzymatic corn wet milling: engineering process and cost model. <i>Biotechnology for Biofuels</i> , 2009 , 2, 2	7.8	37
37	Protease Treatment to Improve Ethanol Fermentation in Modified Dry Grind Corn Processes. <i>Cereal Chemistry</i> , 2009 , 86, 323-328	2.4	24
36	Engineering process and cost model for a conventional corn wet milling facility. <i>Industrial Crops and Products</i> , 2008 , 27, 91-97	5.9	64
35	Pericarp Fiber Separation from Corn Flour Using Sieving and Air Classification. <i>Cereal Chemistry</i> , 2008 , 85, 27-30	2.4	13
34	Increasing the value of hominy feed as a coproduct by fermentation. <i>Applied Biochemistry and Biotechnology</i> , 2008 , 149, 145-53	3.2	5
33	Separation of fiber from distillers dried grains (DDG) using sieving and elutriation. <i>Biomass and Bioenergy</i> , 2008 , 32, 468-472	5.3	12
32	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	2.3	39
31	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	2.4	62
30	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	2.4	5
29	Fiber Separated from Distillers Dried Grains with Solubles as a Feedstock for Ethanol Production. <i>Cereal Chemistry</i> , 2007 , 84, 563-566	2.4	8
28	Evaluation and Strategies to Improve Fermentation Characteristics of Modified Dry-Grind Corn Processes. <i>Cereal Chemistry</i> , 2006 , 83, 455-459	2.4	40
27	Dry-Grind Processing of Corn with Endogenous Liquefaction Enzymes. <i>Cereal Chemistry</i> , 2006 , 83, 317-320	2.4	16
26	Economics of Fiber Separation from Distillers Dried Grains with Solubles (DDGS) Using Sieving and Elutriation. <i>Cereal Chemistry</i> , 2006 , 83, 324-330	2.4	24
25	Membrane separation of solids from corn processing streams. <i>Bioresource Technology</i> , 2006 , 97, 1536-45	1.1	23
24	Improvement in fermentation characteristics of degermed ground corn by lipid supplementation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006 , 33, 655-60	4.2	20

23	Separation of Fiber from Distillers Dried Grains with Solubles (DDGS) Using Sieving and Elutriation. <i>Cereal Chemistry</i> , 2005 , 82, 528-533	2.4	53
22	Composition and economic comparison of germ fractions from modified corn processing technologies. <i>JAACS, Journal of the American Oil ChemiststSociety</i> , 2005 , 82, 603-608	1.8	51
21	Hydrolysis and Fermentation of Pericarp and Endosperm Fibers Recovered from Enzymatic Corn Dry-Grind Process. <i>Cereal Chemistry</i> , 2005 , 82, 616-620	2.4	13
20	Enzymatic Milling Product Yield Comparison with Reduced Levels of Bromelain and Varying Levels of Sulfur Dioxide. <i>Cereal Chemistry</i> , 2005 , 82, 523-527	2.4	11
19	Comparison of Modified Dry-Grind Corn Processes for Fermentation Characteristics and DDGS Composition. <i>Cereal Chemistry</i> , 2005 , 82, 187-190	2.4	89
18	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	2.4	53
17	Enzymatic Milling of Corn: Optimization of Soaking, Grinding, and Enzyme Incubation Steps. <i>Cereal Chemistry</i> , 2004 , 81, 626-632	2.4	25
16	Fermentation of Quick Fiber Produced from a modified corn-milling process into ethanol and recovery of corn fiber oil. <i>Applied Biochemistry and Biotechnology</i> , 2004 , 115, 0937-0950	3.2	25
15	An enzymatic process for corn wet milling. <i>Advances in Food and Nutrition Research</i> , 2004 , 48, 151-71	6	12
14	Fermentation of Quick Fiber Produced from a Modified Corn-Milling Process into Ethanol and Recovery of Corn Fiber Oil 2004 , 937-949		
13	Pressurized liquid extraction of polar and nonpolar lipids in corn and oats with hexane, methylene chloride, isopropanol, and ethanol. <i>JAACS, Journal of the American Oil ChemiststSociety</i> , 2003 , 80, 1063-1067	1.8	110
12	Yield and Phytosterol Composition of Oil Extracted from Grain Sorghum and Its Wet-Milled Fractions. <i>Cereal Chemistry</i> , 2003 , 80, 126-129	2.4	40
11	Pasting Properties and Surface Characteristics of Starch Obtained from an Enzymatic Corn Wet-Milling Process. <i>Cereal Chemistry</i> , 2002 , 79, 523-527	2.4	11
10	Effect of Corn Milling Practices on Aleurone Layer Cells and Their Unique Phytosterols. <i>Cereal Chemistry</i> , 2001 , 78, 436-441	2.4	18
9	Diferuloylputrescine and p-coumaroyl-feruloylputrescine, abundant polyamine conjugates in lipid extracts of maize kernels. <i>Lipids</i> , 2001 , 36, 839-44	1.6	49
8	Effect of Harvest Moisture Content and Ambient Air Drying on Maize Fiber Oil Yield and its Phytosterol Composition. <i>Starch/Staerke</i> , 2001 , 53, 635-638	2.3	3
7	Use of Proteases to Reduce Steep Time and SO ₂ Requirements in a Corn Wet-Milling Process. <i>Cereal Chemistry</i> , 2001 , 78, 405-411	2.4	43
6	Effect of Alternative Milling Techniques on the Yield and Composition of Corn Germ Oil and Corn Fiber Oil. <i>Cereal Chemistry</i> , 2001 , 78, 46-49	2.4	18

5	Comparison of Coarse and Fine Corn Fiber for Corn Fiber Gum Yields and Sugar Profiles. <i>Cereal Chemistry</i> , 2000 , 77, 560-561	2.4	18
4	Effect of Various Acids and Sulfites in Steep Solution on Yields and Composition of Corn Fiber and Corn Fiber Oil. <i>Cereal Chemistry</i> , 2000 , 77, 665-668	2.4	8
3	Comparison of Yield and Composition of Oil Extracted from Corn Fiber and Corn Bran. <i>Cereal Chemistry</i> , 1999 , 76, 449-451	2.4	51
2	Recovery of Fiber in the Corn Dry-Grind Ethanol Process: A Feedstock for Valuable Coproducts. <i>Cereal Chemistry</i> , 1999 , 76, 868-872	2.4	58
1	Performance of glucoamylase self-producing eBOOST [™] yeast on ethanol production. <i>Cereal Chemistry</i> ,	2.4	1