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List of Publications by Year in descending order

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89
papers

2,431
citations

201385

27
h-index

223531

46
g-index

92
all docs

92
docs citations

92
times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape identification and particles size distribution from basic shape parameters using ImageJ. Computers and Electronics in Agriculture, 2008, 63, 168-182.	3.7	288
2	Direct mechanical energy measures of hammer mill comminution of switchgrass, wheat straw, and corn stover and analysis of their particle size distributions. Powder Technology, 2009, 193, 32-45.	2.1	172
3	Sieveless particle size distribution analysis of particulate materials through computer vision. Computers and Electronics in Agriculture, 2009, 66, 147-158.	3.7	110
4	Bulk density and compaction behavior of knife mill chopped switchgrass, wheat straw, and corn stover. Bioresource Technology, 2010, 101, 207-214.	4.8	95
5	Major orthogonal dimensions measurement of food grains by machine vision using ImageJ. Food Research International, 2009, 42, 76-84.	2.9	82
6	Machine vision based particle size and size distribution determination of airborne dust particles of wood and bark pellets. Powder Technology, 2009, 196, 202-212.	2.1	81
7	Corn stalk orientation effect on mechanical cutting. Biosystems Engineering, 2010, 107, 97-106.	1.9	69
8	Direct measures of mechanical energy for knife mill size reduction of switchgrass, wheat straw, and corn stover. Bioresource Technology, 2009, 100, 6578-6585.	4.8	67
9	Process engineering evaluation of ethanol production from wood through bioprocessing and chemical catalysis. Biomass and Bioenergy, 2009, 33, 255-266.	2.9	65
10	Technology progress in mechanical harvest of fresh market apples. Computers and Electronics in Agriculture, 2020, 175, 105606.	3.7	64
11	Nondestructive determination of cocoa bean quality using FT-NIR spectroscopy. Computers and Electronics in Agriculture, 2016, 124, 234-242.	3.7	62
12	Switchgrass ultimate stresses at typical biomass conditions available for processing. Biomass and Bioenergy, 2006, 30, 214-219.	2.9	54
13	Wheat Lodging Detection from UAS Imagery Using Machine Learning Algorithms. Remote Sensing, 2020, 12, 1838.	1.8	54
14	Size reduction of high- and low-moisture corn stalks by linear knife grid system. Biomass and Bioenergy, 2009, 33, 547-557.	2.9	53
15	Combined effect of pelleting and pretreatment on enzymatic hydrolysis of switchgrass. Bioresource Technology, 2012, 116, 36-41.	4.8	52
16	Geometry-based mass grading of mango fruits using image processing. Information Processing in Agriculture, 2017, 4, 150-160.	2.9	51
17	SORPTION EQUILIBRIUM MOISTURE CHARACTERISTICS OF SELECTED CORN STOVER COMPONENTS. Transactions of the American Society of Agricultural Engineers, 2005, 48, 1449-1460.	0.9	45
18	Particle size distribution modeling of milled coals by dynamic image analysis and mechanical sieving. Fuel Processing Technology, 2016, 143, 100-109.	3.7	43

#	ARTICLE	IF	CITATIONS
19	Color calibration of digital images for agriculture and other applications. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 221-234.	4.9	41
20	Interactive computer software development for leaf area measurement. Computers and Electronics in Agriculture, 2006, 51, 1-16.	3.7	38
21	Biomass pyrolysis and combustion integral and differential reaction heats with temperatures using thermogravimetric analysis/differential scanning calorimetry. Bioresource Technology, 2015, 185, 89-98.	4.8	36
22	Chlorophyll estimation in soybean leaves infield with smartphone digital imaging and machine learning. Computers and Electronics in Agriculture, 2020, 174, 105433.	3.7	36
23	Moisture diffusion modeling of parboiled paddy accelerated tempering process with extended application to multi-pass drying simulation. Journal of Food Engineering, 2008, 88, 239-253.	2.7	35
24	Simple and inexpensive method of wood pellets macro-porosity measurement. Bioresource Technology, 2010, 101, 6528-6537.	4.8	32
25	Knife grid size reduction to pre-process packed beds of high- and low-moisture switchgrass. Bioresource Technology, 2008, 99, 2254-2264.	4.8	31
26	Comparison of particle size distribution of celestite mineral by machine vision ÆVolume approach and mechanical sieving. Powder Technology, 2012, 215-216, 137-146.	2.1	30
27	Distinguishing seedling volunteer corn from soybean through greenhouse color, color-infrared, and fused images using machine and deep learning. Industrial Crops and Products, 2021, 161, 113223.	2.5	29
28	COMBINATION SOAKING PROCEDURE FOR ROUGH RICE PARBOILING. Transactions of the American Society of Agricultural Engineers, 2005, 48, 665-671.	0.9	27
29	MASS AND MOISTURE DISTRIBUTION IN ABOVEGROUND COMPONENTS OF STANDING CORN PLANTS. Transactions of the ASABE, 2006, 49, 97-106.	1.1	27
30	Impact of corn stover particle size and C/N ratio on reactor performance in solid-state anaerobic co-digestion with dairy manure. Journal of the Air and Waste Management Association, 2020, 70, 436-454.	0.9	26
31	Knife mill operating factors effect on switchgrass particle size distributions. Bioresource Technology, 2009, 100, 5176-5188.	4.8	25
32	BIOMASS MOISTURE RELATIONS OF AN AGRICULTURAL FIELD RESIDUE: CORN STOVER. Transactions of the American Society of Agricultural Engineers, 2005, 48, 2073-2083.	0.9	24
33	Mathematical model parameters for describing the particle size spectra of knife-milled corn stover. Biosystems Engineering, 2009, 104, 369-383.	1.9	24
34	Characterization of wheat straw particle size distributions as affected by knife mill operating factors. Biomass and Bioenergy, 2011, 35, 3674-3686.	2.9	21
35	Dynamic image based shape analysis of hard and lignite coal particles ground by laboratory ball and gyro mills. Fuel Processing Technology, 2014, 126, 350-358.	3.7	20
36	Biomass bale stack and field outlet locations assessment for efficient infield logistics. Biomass and Bioenergy, 2016, 91, 217-226.	2.9	20

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37	Moisture diffusion modelling of drying in parboiled paddy components. Part I: starchy endosperm. <i>Journal of Food Engineering</i> , 1999, 41, 79-88.	2.7	19
38	Moisture Sorption Thermodynamic Properties of Corn Stover Fractions. <i>Transactions of the ASABE</i> , 2007, 50, 2151-2160.	1.1	18
39	Mold appearance and modeling on selected corn stover components during moisture sorption. <i>Bioresource Technology</i> , 2008, 99, 6365-6371.	4.8	18
40	Fast and simple measurement of cutting energy requirement of plant stalk and prediction model development. <i>Industrial Crops and Products</i> , 2011, 33, 518-523.	2.5	18
41	Machine vision methods based particle size distribution of ball- and gyro-milled lignite and hard coal. <i>Powder Technology</i> , 2016, 297, 71-80.	2.1	18
42	Sunflower floral dimension measurements using digital image processing. <i>Computers and Electronics in Agriculture</i> , 2018, 151, 403-415.	3.7	18
43	Moisture diffusion modelling of drying in parboiled paddy components. Part II: Bran and Husk. <i>Journal of Food Engineering</i> , 1999, 41, 89-101.	2.7	17
44	Optimized location of biomass bales stack for efficient logistics. <i>Biomass and Bioenergy</i> , 2017, 96, 130-141.	2.9	15
45	A review of unmanned aerial vehicle-based methods for plant stand count evaluation in row crops. <i>Computers and Electronics in Agriculture</i> , 2022, 198, 107064.	3.7	15
46	Mathematical prediction of moisture profile in layers of grain during pre-conditioning. <i>Journal of Food Engineering</i> , 1997, 31, 185-197.	2.7	14
47	Biomass round bales infield aggregation logistics scenarios. <i>Biomass and Bioenergy</i> , 2014, 66, 12-26.	2.9	14
48	Spatiotemporal Heterogeneity of Chlorophyll Content and Fluorescence Response Within Rice (<i>Oryza</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.7	13
49	Development of Parabolic Weirs for Simplified Discharge Measurement. <i>Biosystems Engineering</i> , 2007, 96, 111-119.	1.9	12
50	Application of 3D scanned imaging methodology for volume, surface area, and envelope density evaluation of densified biomass. <i>Bioresource Technology</i> , 2010, 101, 4220-4227.	4.8	12
51	Identification and Counting of Soybean Aphids from Digital Images Using Shape Classification. <i>Transactions of the ASABE</i> , 2017, 60, 1467-1477.	1.1	12
52	Numerical Techniques for Estimating the Surface Areas of Ellipsoids Representing Food Materials. <i>Biosystems Engineering</i> , 1998, 70, 313-322.	0.4	11
53	Discrimination of bark from wood chips through texture analysis by image processing. <i>Computers and Electronics in Agriculture</i> , 2011, 79, 13-19.	3.7	11
54	Cashews whole and splits classification using a novel machine vision approach. <i>Postharvest Biology and Technology</i> , 2018, 138, 19-30.	2.9	11

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55	Knife Mill Comminution Energy Analysis of Switchgrass, Wheat Straw, and Corn Stover and Characterization of Particle Size Distributions. Transactions of the ASABE, 2010, 53, 1639-1651.	1.1	10
56	Surface area of general ellipsoid shaped food materials by simplified regression equation method. Journal of Food Engineering, 2000, 46, 257-266.	2.7	9
57	Physical Property Effects on Drying of Chile Peppers. International Journal of Food Properties, 2009, 12, 316-330.	1.3	9
58	Digital image processing based identification of nodes and internodes of chopped biomass stems. Computers and Electronics in Agriculture, 2014, 105, 54-65.	3.7	9
59	Novel front end processing method of industrial beet juice extraction for biofuels and bioproducts industries. Biomass and Bioenergy, 2014, 68, 161-174.	2.9	9
60	Identification, quantification, and growth profiling of eight different microalgae species using image analysis. Algal Research, 2021, 60, 102487.	2.4	8
61	On the development of a ready reckoner table for evaluating surface area of general ellipsoids based on numerical techniques. Journal of Food Engineering, 1998, 36, 233-247.	2.7	7
62	PH—Postharvest Technology. Biosystems Engineering, 2002, 83, 97-105.	1.9	7
63	Hygroscopic Moisture Sorption Kinetics Modeling of Corn Stover and its Fractions. Applied Engineering in Agriculture, 2009, 25, 65-73.	0.3	7
64	Milled industrial beet color kinetics and total soluble solid contents by image analysis. Industrial Crops and Products, 2015, 65, 159-169.	2.5	7
65	Rating Iron Deficiency in Soybean Using Image Processing and Decision-Tree Based Models. Remote Sensing, 2020, 12, 4143.	1.8	6
66	Kinetic studies of alkaline-pretreated corn stover co-digested with upset dairy manure under solid-state. Renewable Energy, 2021, 163, 2198-2207.	4.3	6
67	Enhancing Wheat Disease Diagnosis in a Greenhouse Using Image Deep Features and Parallel Feature Fusion. Frontiers in Plant Science, 2022, 13, 834447.	1.7	6
68	Viscosity Measurement Technique Using Standard Glass Burette for Newtonian Liquids. Instrumentation Science and Technology, 2005, 33, 101-125.	0.9	5
69	Photovoltaic Leaf Area Meter Development and Testing. International Journal of Food Properties, 2008, 11, 53-67.	1.3	5
70	Development of a Population Balance Model to Simulate Fractionation of Ground Switchgrass. Transactions of the ASABE, 2011, 54, 219-227.	1.1	5
71	Tracks impacted field area simulation using kinematics and geometry for different equipment and operation scenarios. Biosystems Engineering, 2019, 187, 185-200.	1.9	4
72	Biomass bales infield aggregation logistics energy for tractors and automatic bale pickers — A simulation study. Biomass and Bioenergy, 2021, 144, 105915.	2.9	4

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73	Profile based image analysis for identification of chopped biomass stem nodes and internodes. Industrial Crops and Products, 2015, 70, 374-382.	2.5	3
74	Effect of Angle of Cut on Corn Stalks Mechanical Cutting Strength and Energy. , 2010, , .		2
75	A new method of detecting changes in corneal health in response to toxic insults. Micron, 2015, 78, 45-53.	1.1	2
76	High fiber fraction DDGS â€“ A functional filler for manufacturing low-density particleboards. Industrial Crops and Products, 2022, 181, 114793.	2.5	2
77	Size Reduction of Wet and Dry Biomass by Linear Knife Grid Device. , 2007, , .		1
78	Fast and Simple Measurement of Energy Requirements for Plant Stalk Cutting. , 2008, , .		1
79	Phenocam color image calibration using image analysis. , 2017, , .		1
80	Pellet Industry Airborne Dust Particles Size and Size Distribution using Machine Vision ImageJ Plugin. , 2009, , .		0
81	Comminution Energy Consumption of Biomass in Knife Mill and its Particle Size Characterization. , 2009, , .		0
82	Potential of Dimensional Measurements of Individual Pellets as another Measure for Evaluating Pellet Quality. , 2010, , .		0
83	Machine Vision Based Particle Size Distribution of Particulate Minerals and its Experimental Verification. , 2011, , .		0
84	LaTeX for Agricultural and Biological Engineers. , 2011, , .		0
85	Mechanical shear and tensile characteristics of selected biomass stems. , 2012, , .		0
86	Biomass Bale Infield Logistics Scenario using Automatic Bale Picker. , 2017, , .		0
87	Equipment Track Impacted Field Areas during Harvesting, Baling, and Infield Bale Logistics. , 2017, , .		0
88	Identification of split and whole cashew nuts based on machine vision. , 2017, , .		0
89	Sunflower head, disc, and ray florets dimensions measurement using image processing. , 2018, , .		0