C Igathinathane

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	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
2	High fiber fraction DDGS â€“ A functional filler for manufacturing low-density particleboards. Industrial Crops and Products, 2022, 181, 114793.	2.5	2
3	A review of unmanned aerial vehicle-based methods for plant stand count evaluation in row crops. Computers and Electronics in Agriculture, 2022, 198, 107064.	3.7	15
4	Biomass bales infield aggregation logistics energy for tractors and automatic bale pickers â€” A simulation study. Biomass and Bioenergy, 2021, 144, 105915.	2.9	4
5	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
6	Spatiotemporal Heterogeneity of Chlorophyll Content and Fluorescence Response Within Rice (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.7	13
7	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
8	Identification, quantification, and growth profiling of eight different microalgae species using image analysis. Algal Research, 2021, 60, 102487.	2.4	8
9	Technology progress in mechanical harvest of fresh market apples. Computers and Electronics in Agriculture, 2020, 175, 105606.	3.7	64
10	Rating Iron Deficiency in Soybean Using Image Processing and Decision-Tree Based Models. Remote Sensing, 2020, 12, 4143.	1.8	6
11	Wheat Lodging Detection from UAS Imagery Using Machine Learning Algorithms. Remote Sensing, 2020, 12, 1838.	1.8	54
12	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
13	Chlorophyll estimation in soybean leaves infield with smartphone digital imaging and machine learning. Computers and Electronics in Agriculture, 2020, 174, 105433.	3.7	36
14	Tracks impacted field area simulation using kinematics and geometry for different equipment and operation scenarios. Biosystems Engineering, 2019, 187, 185-200.	1.9	4
15	Cashews whole and splits classification using a novel machine vision approach. Postharvest Biology and Technology, 2018, 138, 19-30.	2.9	11
16	Sunflower head, disc, and ray florets dimensions measurement using image processing. , 2018, , .		0
17	Color calibration of digital images for agriculture and other applications. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 221-234.	4.9	41
18	Sunflower floral dimension measurements using digital image processing. Computers and Electronics in Agriculture, 2018, 151, 403-415.	3.7	18

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19	Geometry-based mass grading of mango fruits using image processing. Information Processing in Agriculture, 2017, 4, 150-160.	2.9	51
20	Optimized location of biomass bales stack for efficient logistics. Biomass and Bioenergy, 2017, 96, 130-141.	2.9	15
21	Biomass Bale Infield Logistics Scenario using Automatic Bale Picker. , 2017, , .		0
22	Equipment Track Impacted Field Areas during Harvesting, Baling, and Infield Bale Logistics. , 2017, , .		0
23	Identification and Counting of Soybean Aphids from Digital Images Using Shape Classification. Transactions of the ASABE, 2017, 60, 1467-1477.	1.1	12
24	Identification of split and whole cashew nuts based on machine vision. , 2017, , .		0
25	Phenocam color image calibration using image analysis. , 2017, , .		1
26	Machine vision methods based particle size distribution of ball- and gyro-milled lignite and hard coal. Powder Technology, 2016, 297, 71-80.	2.1	18
27	Nondestructive determination of cocoa bean quality using FT-NIR spectroscopy. Computers and Electronics in Agriculture, 2016, 124, 234-242.	3.7	62
28	Biomass bale stack and field outlet locations assessment for efficient infield logistics. Biomass and Bioenergy, 2016, 91, 217-226.	2.9	20
29	Particle size distribution modeling of milled coals by dynamic image analysis and mechanical sieving. Fuel Processing Technology, 2016, 143, 100-109.	3.7	43
30	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
31	Profile based image analysis for identification of chopped biomass stem nodes and internodes. Industrial Crops and Products, 2015, 70, 374-382.	2.5	3
32	A new method of detecting changes in corneal health in response to toxic insults. Micron, 2015, 78, 45-53.	1.1	2
33	Milled industrial beet color kinetics and total soluble solid contents by image analysis. Industrial Crops and Products, 2015, 65, 159-169.	2.5	7
34	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
35	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
36	Biomass round bales infield aggregation logistics scenarios. Biomass and Bioenergy, 2014, 66, 12-26.	2.9	14

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37	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
38	Mechanical shear and tensile characteristics of selected biomass stems. , 2012, , .		0
39	Combined effect of pelleting and pretreatment on enzymatic hydrolysis of switchgrass. Bioresource Technology, 2012, 116, 36-41.	4.8	52
40	Comparison of particle size distribution of celestite mineral by machine vision Î£Volume approach and mechanical sieving. Powder Technology, 2012, 215-216, 137-146.	2.1	30
41	Machine Vision Based Particle Size Distribution of Particulate Minerals and its Experimental Verification. , 2011, , .		0
42	LaTeX for Agricultural and Biological Engineers. , 2011, , .		0
43	Development of a Population Balance Model to Simulate Fractionation of Ground Switchgrass. Transactions of the ASABE, 2011, 54, 219-227.	1.1	5
44	Fast and simple measurement of cutting energy requirement of plant stalk and prediction model development. Industrial Crops and Products, 2011, 33, 518-523.	2.5	18
45	Discrimination of bark from wood chips through texture analysis by image processing. Computers and Electronics in Agriculture, 2011, 79, 13-19.	3.7	11
46	Characterization of wheat straw particle size distributions as affected by knife mill operating factors. Biomass and Bioenergy, 2011, 35, 3674-3686.	2.9	21
47	Bulk density and compaction behavior of knife mill chopped switchgrass, wheat straw, and corn stover. Bioresource Technology, 2010, 101, 207-214.	4.8	95
48	Application of 3D scanned imaging methodology for volume, surface area, and envelope density evaluation of densified biomassâ˜†. Bioresource Technology, 2010, 101, 4220-4227.	4.8	12
49	Simple and inexpensive method of wood pellets macro-porosity measurement. Bioresource Technology, 2010, 101, 6528-6537.	4.8	32
50	Corn stalk orientation effect on mechanical cutting. Biosystems Engineering, 2010, 107, 97-106.	1.9	69
51	Potential of Dimensional Measurements of Individual Pellets as another Measure for Evaluating Pellet Quality. , 2010, , .		0
52	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
53	Effect of Angle of Cut on Corn Stalks Mechanical Cutting Strength and Energy. , 2010, , .		2
54	Pellet Industry Airborne Dust Particles Size and Size Distribution using Machine Vision ImageJ Plugin. , 2009, , .		0

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55	Hygroscopic Moisture Sorption Kinetics Modeling of Corn Stover and its Fractions. Applied Engineering in Agriculture, 2009, 25, 65-73.	0.3	7
56	Comminution Energy Consumption of Biomass in Knife Mill and its Particle Size Characterization. , 2009, , .		0
57	Sieveless particle size distribution analysis of particulate materials through computer vision. Computers and Electronics in Agriculture, 2009, 66, 147-158.	3.7	110
58	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
59	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
60	Process engineering evaluation of ethanol production from wood through bioprocessing and chemical catalysis. Biomass and Bioenergy, 2009, 33, 255-266.	2.9	65
61	Size reduction of high- and low-moisture corn stalks by linear knife grid system. Biomass and Bioenergy, 2009, 33, 547-557.	2.9	53
62	Knife mill operating factors effect on switchgrass particle size distributions. Bioresource Technology, 2009, 100, 5176-5188.	4.8	25
63	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
64	Mathematical model parameters for describing the particle size spectra of knife-milled corn stover. Biosystems Engineering, 2009, 104, 369-383.	1.9	24
65	Physical Property Effects on Drying of Chile Peppers. International Journal of Food Properties, 2009, 12, 316-330.	1.3	9
66	Major orthogonal dimensions measurement of food grains by machine vision using ImageJ. Food Research International, 2009, 42, 76-84.	2.9	82
67	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
68	Mold appearance and modeling on selected corn stover components during moisture sorption. Bioresource Technology, 2008, 99, 6365-6371.	4.8	18
69	Knife grid size reduction to pre-process packed beds of high- and low-moisture switchgrass. Bioresource Technology, 2008, 99, 2254-2264.	4.8	31
70	Shape identification and particles size distribution from basic shape parameters using ImageJ. Computers and Electronics in Agriculture, 2008, 63, 168-182.	3.7	288
71	Photovoltaic Leaf Area Meter Development and Testing. International Journal of Food Properties, 2008, 11, 53-67.	1.3	5
72	Fast and Simple Measurement of Energy Requirements for Plant Stalk Cutting. , 2008, , .		1

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73	Moisture Sorption Thermodynamic Properties of Corn Stover Fractions. Transactions of the ASABE, 2007, 50, 2151-2160.	1.1	18
74	Size Reduction of Wet and Dry Biomass by Linear Knife Grid Device. , 2007, , .		1
75	Development of Parabolic Weirs for Simplified Discharge Measurement. Biosystems Engineering, 2007, 96, 111-119.	1.9	12
76	MASS AND MOISTURE DISTRIBUTION IN ABOVEGROUND COMPONENTS OF STANDING CORN PLANTS. Transactions of the ASABE, 2006, 49, 97-106.	1.1	27
77	Switchgrass ultimate stresses at typical biomass conditions available for processing. Biomass and Bioenergy, 2006, 30, 214-219.	2.9	54
78	Interactive computer software development for leaf area measurement. Computers and Electronics in Agriculture, 2006, 51, 1-16.	3.7	38
79	COMBINATION SOAKING PROCEDURE FOR ROUGH RICE PARBOILING. Transactions of the American Society of Agricultural Engineers, 2005, 48, 665-671.	0.9	27
80	SORPTION EQUILIBRIUM MOISTURE CHARACTERISTICS OF SELECTED CORN STOVER COMPONENTS. Transactions of the American Society of Agricultural Engineers, 2005, 48, 1449-1460.	0.9	45
81	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
82	Viscosity Measurement Technique Using Standard Glass Burette for Newtonian Liquids. Instrumentation Science and Technology, 2005, 33, 101-125.	0.9	5
83	PHâ€"Postharvest Technology. Biosystems Engineering, 2002, 83, 97-105.	1.9	7
84	Surface area of general ellipsoid shaped food materials by simplified regression equation method. Journal of Food Engineering, 2000, 46, 257-266.	2.7	9
85	Moisture diffusion modelling of drying in parboiled paddy components. Part I: starchy endosperm. Journal of Food Engineering, 1999, 41, 79-88.	2.7	19
86	Moisture diffusion modelling of drying in parboiled paddy components. Part II: Bran and Husk. Journal of Food Engineering, 1999, 41, 89-101.	2.7	17
87	Numerical Techniques for Estimating the Surface Areas of Ellipsoids Representing Food Materials. Biosystems Engineering, 1998, 70, 313-322.	0.4	11
88	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
89	Mathematical prediction of moisture profile in layers of grain during pre-conditioning. Journal of Food Engineering, 1997, 31, 185-197.	2.7	14