

Hojae Yi

List of Publications by Year in descending order

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33
papers

669
citations

567144

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36
all docs

36
docs citations

36
times ranked

606
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of fundamental mechanical properties of biomass using the cubical triaxial tester to model biomass flow. <i>Biofuels</i> , 2022, 13, 945-956.	1.4	2
2	Turgor pressure change in stomatal guard cells arises from interactions between water influx and mechanical responses of their cell walls. <i>Quantitative Plant Biology</i> , 2022, 3, .	0.8	3
3	Design of a Biomass Scale Cubical Triaxial Tester. , 2020, , .		0
4	MicroCT imaging to determine coordination number and contact area of biomass particles in densified assemblies. <i>Powder Technology</i> , 2019, 354, 466-475.	2.1	3
5	Synergistic Pectin Degradation and Guard Cell Pressurization Underlie Stomatal Pore Formation. <i>Plant Physiology</i> , 2019, 180, 66-77.	2.3	22
6	The stomatal flexoskeleton: how the biomechanics of guard cell walls animate an elastic pressure vessel. <i>Journal of Experimental Botany</i> , 2019, 70, 3561-3572.	2.4	10
7	Micromechanical Characterization of Particle-Particle Bond in Biomass Assemblies Formed at Different Applied Pressure and Temperature. <i>KONA Powder and Particle Journal</i> , 2019, 36, 252-263.	0.9	1
8	Comparison of mechanical properties of ground corn stover, switchgrass, and willow and their pellet qualities. <i>Particulate Science and Technology</i> , 2018, 36, 447-456.	1.1	7
9	Evaluation of Dry Steam Preconditioning on Switchgrass Pellet Quality Metrics. <i>Applied Engineering in Agriculture</i> , 2018, 34, 637-644.	0.3	1
10	Mechanical Effects of Cellulose, Xyloglucan, and Pectins on Stomatal Guard Cells of <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 1566.	1.7	23
11	Balancing Strength and Flexibility: How the Synthesis, Organization, and Modification of Guard Cell Walls Govern Stomatal Development and Dynamics. <i>Frontiers in Plant Science</i> , 2018, 9, 1202.	1.7	37
12	Critical Review on Engineering Mechanical Quality of Green Compacts using Powder Properties. <i>KONA Powder and Particle Journal</i> , 2018, 35, 32-48.	0.9	5
13	Activation tagging of <i>Arabidopsis</i> <i>POLYGALACTURONASE INVOLVED IN EXPANSION2</i> promotes hypocotyl elongation, leaf expansion, stem lignification, mechanical stiffening, and lodging. <i>Plant Journal</i> , 2017, 89, 1159-1173.	2.8	55
14	<i>POLYGALACTURONASE INVOLVED IN EXPANSION3</i> Functions in Seedling Development, Rosette Growth, and Stomatal Dynamics in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2017, 29, 2413-2432.	3.1	117
15	A multiscale FEA framework for bridging cell-wall to tissue-scale mechanical properties: the contributions of middle lamella interface and cell shape. <i>Journal of Materials Science</i> , 2017, 52, 7947-7968.	1.7	14
16	Integrating cell biology, image analysis, and computational mechanical modeling to analyze the contributions of cellulose and xyloglucan to stomatal function. <i>Plant Signaling and Behavior</i> , 2016, 11, e1183086.	1.2	21
17	Single particle mechanical characterization of ground switchgrass in air dry and wet states using a microextensometer. <i>Powder Technology</i> , 2016, 301, 568-574.	2.1	3
18	Comparison and explanation of predictive capability of pellet quality metrics based on fundamental mechanical properties of ground willow and switchgrass. <i>Advanced Powder Technology</i> , 2016, 27, 1411-1417.	2.0	13

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19	Numerical Solution of Second Order Linear Partial Differential Equations using Agricultural Systems Application Platform. <i>Journal of the Korean Society of Agricultural Engineers</i> , 2016, 58, 81-90.	0.1	0
20	Multiscale stress-strain characterization of onion outer epidermal tissue in wet and dry states. <i>American Journal of Botany</i> , 2015, 102, 12-20.	0.8	36
21	Examination of biological hotspot hypothesis of primary cell wall using a computational cell wall network model. <i>Cellulose</i> , 2015, 22, 1027-1038.	2.4	26
22	The mechanical properties of plant cell walls soft material at the subcellular scale: the implications of water and of the intercellular boundaries. <i>Journal of Materials Science</i> , 2015, 50, 6608-6623.	1.7	35
23	Fundamental mechanical properties of ground switchgrass for quality assessment of pellets. <i>Powder Technology</i> , 2015, 283, 48-56.	2.1	25
24	Contributions of the mechanical properties of major structural polysaccharides to the stiffness of a cell wall network model. <i>American Journal of Botany</i> , 2014, 101, 244-254.	0.8	25
25	Mechanical characterization of outer epidermal middle lamella of onion under tensile loading. <i>American Journal of Botany</i> , 2014, 101, 778-787.	0.8	48
26	3D Milk Fouling Modeling of Plate Heat Exchangers with Different Surface Finishes Using Computational Fluid Dynamics Codes. <i>Journal of Food Process Engineering</i> , 2013, 36, 439-449.	1.5	22
27	Stress gradient within powder en masse during hydrostatic compression. <i>Powder Technology</i> , 2013, 239, 47-55.	2.1	7
28	Characterizing microscale biological samples under tensile loading: Stress-strain behavior of cell wall fragment of onion outer epidermis. <i>American Journal of Botany</i> , 2013, 100, 1105-1115.	0.8	38
29	Determination of optimum densification conditions for production of corn stover pellets. , 2013, , .		1
30	Architecture-Based Multiscale Computational Modeling of Plant Cell Wall Mechanics to Examine the Hydrogen-Bonding Hypothesis of the Cell Wall Network Structure Model. <i>Plant Physiology</i> , 2012, 160, 1281-1292.	2.3	49
31	Percolation Segregation and Flowability Measurement of Urea under Different Relative Humidity Conditions. <i>KONA Powder and Particle Journal</i> , 2008, 26, 167-177.	0.9	7
32	Bulk Mechanical Behavior of Rootzone Sand Mixtures as Influenced by Particle Shape, Moisture and Peat. <i>Particle and Particle Systems Characterization</i> , 2004, 21, 303-309.	1.2	5
33	Measurement of Bulk Mechanical Properties and Modeling the Load-Response of Rootzone Sands. Part 2: Effect of Moisture on Continuous Sand Mixtures. <i>Particulate Science and Technology</i> , 2001, 19, 369-386.	1.1	8