

John H Grabber

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3058113/publications.pdf>

Version: 2024-02-01

58
papers

5,049
citations

136740

32
h-index

138251

58
g-index

58
all docs

58
docs citations

58
times ranked

3748
citing authors

#	ARTICLE	IF	CITATIONS
1	How Do Lignin Composition, Structure, and Cross-Linking Affect Degradability? A Review of Cell Wall Model Studies. <i>Crop Science</i> , 2005, 45, 820-831.	0.8	438
2	Pathway of p-Coumaric Acid Incorporation into Maize Lignin As Revealed by NMR. <i>Journal of the American Chemical Society</i> , 1994, 116, 9448-9456.	6.6	403
3	Lignin-ferulate cross-links in grasses: active incorporation of ferulate polysaccharide esters into ryegrass lignins. <i>Carbohydrate Research</i> , 1995, 275, 167-178.	1.1	386
4	Identification and synthesis of new ferulic acid dehydrodimers present in grass cell walls. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994, , 3485.	0.9	353
5	Metabolic engineering of novel lignin in biomass crops. <i>New Phytologist</i> , 2012, 196, 978-1000.	3.5	338
6	Peroxidase-dependent cross-linking reactions of p-hydroxycinnamates in plant cell walls. <i>Phytochemistry Reviews</i> , 2004, 3, 79-96.	3.1	239
7	Ferulate cross-linking in cell walls isolated from maize cell suspensions. <i>Phytochemistry</i> , 1995, 40, 1077-1082.	1.4	226
8	Cross-Linking of Maize Walls by Ferulate Dimerization and Incorporation into Lignin. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 6106-6113.	2.4	196
9	Ferulate Cross-Links Limit the Enzymatic Degradation of Synthetically Lignified Primary Walls of Maize. <i>Journal of Agricultural and Food Chemistry</i> , 1998, 46, 2609-2614.	2.4	171
10	Monolignol ferulate conjugates are naturally incorporated into plant lignins. <i>Science Advances</i> , 2016, 2, e1600393.	4.7	147
11	p-coumaroylated syringyl units in maize lignin: Implications for β -ether cleavage by thioacidolysis. <i>Phytochemistry</i> , 1996, 43, 1189-1194.	1.4	137
12	Cell wall fermentation kinetics are impacted more by lignin content and ferulate cross-linking than by lignin composition. <i>Journal of the Science of Food and Agriculture</i> , 2009, 89, 122-129.	1.7	116
13	Cover Crop and Liquid Manure Effects on Soil Quality Indicators in a Corn Silage System. <i>Agronomy Journal</i> , 2009, 101, 727-737.	0.9	115
14	Identification of the structure and origin of a thioacidolysis marker compound for ferulic acid incorporation into angiosperm lignins (and an indicator for cinnamoyl CoA reductase deficiency). <i>Plant Journal</i> , 2008, 53, 368-379.	2.8	114
15	Coniferyl Ferulate Incorporation into Lignin Enhances the Alkaline Delignification and Enzymatic Degradation of Cell Walls. <i>Biomacromolecules</i> , 2008, 9, 2510-2516.	2.6	114
16	Acetone Enhances the Direct Analysis of Procyanidin- and Prodelphinidin-Based Condensed Tannins in Lotus Species by the Butanol- HCl -Iron Assay. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 2669-2678.	2.4	112
17	A potential role for sinapyl p-coumarate as a radical transfer mechanism in grass lignin formation. <i>Planta</i> , 2008, 228, 919-928.	1.6	107
18	Model Studies of Ferulate-Coniferyl Alcohol Cross-Product Formation in Primary Maize Walls: Implications for Lignification in Grasses. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 6008-6016.	2.4	103

#	ARTICLE	IF	CITATIONS
19	p-Hydroxyphenyl, Guaiacyl, and Syringyl Lignins Have Similar Inhibitory Effects on Wall Degradability. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 2530-2532.	2.4	102
20	Relationship of growth cessation with the formation of diferulate cross-links and p-coumaroylated lignins in tall fescue leaf blades. <i>Planta</i> , 2002, 215, 785-793.	1.6	94
21	Grass lignin acylation: p-coumaroyl transferase activity and cell wall characteristics of C3 and C4 grasses. <i>Planta</i> , 2009, 229, 1253-1267.	1.6	94
22	Formation of ferulic acid dehydrodimers through oxidative cross-linking of sugar beet pectin. <i>Carbohydrate Research</i> , 1997, 300, 179-181.	1.1	78
23	Identifying new lignin bioengineering targets: 1. Monolignol-substitute impacts on lignin formation and cell wall fermentability. <i>BMC Plant Biology</i> , 2010, 10, 114.	1.6	75
24	Dehydrogenation Polymerized Cell Wall Complexes as a Model for Lignified Grass Walls. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 1453-1459.	2.4	61
25	Apoplastic pH and Monolignol Addition Rate Effects on Lignin Formation and Cell Wall Degradability in Maize. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 4984-4989.	2.4	54
26	Hydroxycinnamate Conjugates as Potential Monolignol Replacements: In vitro Lignification and Cell Wall Studies with Rosmarinic Acid. <i>ChemSusChem</i> , 2012, 5, 676-686.	3.6	54
27	Cell culture systems: invaluable tools to investigate lignin formation and cell wall properties. <i>Current Opinion in Biotechnology</i> , 2019, 56, 215-222.	3.3	49
28	Severe inhibition of maize wall degradation by synthetic lignins formed with coniferaldehyde. <i>Journal of the Science of Food and Agriculture</i> , 1998, 78, 81-87.	1.7	45
29	Protein Precipitation Behavior of Condensed Tannins from <i>Lotus pedunculatus</i> and <i>Trifolium repens</i> with Different Mean Degrees of Polymerization. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 1160-1168.	2.4	42
30	Fluorescence-Tagged Monolignols: Synthesis, and Application to Studying In Vitro Lignification. <i>Biomacromolecules</i> , 2011, 12, 1752-1761.	2.6	37
31	Epigallocatechin gallate incorporation into lignin enhances the alkaline delignification and enzymatic saccharification of cell walls. <i>Biotechnology for Biofuels</i> , 2012, 5, 59.	6.2	35
32	¹³ C HSQC NMR Spectroscopy for Estimating Procyanidin/Prodelphinidin and cis-trans-Flavan-3-ol Ratios of Condensed Tannin Samples: Correlation with Thiolyis. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 1967-1973.	2.4	34
33	Model studies of lignified fiber fermentation by human fecal microbiota and its impact on heterocyclic aromatic amine adsorption. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2007, 624, 41-48.	0.4	30
34	Identifying New Lignin Bioengineering Targets: Impact of Epicatechin, Quercetin Glycoside, and Gallate Derivatives on the Lignification and Fermentation of Maize Cell Walls. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 5152-5160.	2.4	30
35	Formation of syringyl-rich lignins in maize as influenced by feruloylated xylans and p-coumaroylated monolignols. <i>Planta</i> , 2007, 226, 741-751.	1.6	28
36	Chemical Composition and Enzymatic Degradability of Xylem and Nonxylem Walls Isolated from Alfalfa Internodes. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 2595-2600.	2.4	27

#	ARTICLE	IF	CITATIONS
37	Influence of Lignification and Feruloylation of Maize Cell Walls on the Adsorption of Heterocyclic Aromatic Amines. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 1860-1867.	2.4	27
38	Soil Nitrogen and Forage Yields of Corn Grown with Clover or Grass Companion Crops and Manure. <i>Agronomy Journal</i> , 2014, 106, 952-961.	0.9	26
39	Prohexadione-â€‘Calcium Improves Stand Density and Yield of Alfalfa Interseeded into Silage Corn. <i>Agronomy Journal</i> , 2016, 108, 726-735.	0.9	23
40	Mechanical Maceration Divergently Shifts Protein Degradability in Condensedâ€‘Tannin vs. Quinone Containing Conserved Forages. <i>Crop Science</i> , 2008, 48, 804-813.	0.8	22
41	Moderate Ferulate and Diferulate Levels Do Not Impede Maize Cell Wall Degradation by Human Intestinal Microbiota. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 2418-2423.	2.4	18
42	Methyl Esterification Divergently Affects the Degradability of Pectic Uronosyls in Nonlignified and Lignified Maize Cell Walls. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 1546-1549.	2.4	17
43	Prohexadione-â€‘Calcium Rate and Timing Effects on Alfalfa Interseeded into Silage Corn. <i>Agronomy Journal</i> , 2018, 110, 85-94.	0.9	16
44	Structural features of alternative lignin monomers associated with improved digestibility of artificially lignified maize cell walls. <i>Plant Science</i> , 2019, 287, 110070.	1.7	14
45	Alfalfa establishment by interseeding with silage corn projected to increase profitability of corn silage-â€‘alfalfa rotations. <i>Agronomy Journal</i> , 2020, 112, 4120-4132.	0.9	14
46	Effects of feeding <i>Lespedeza cuneata</i> pellets with <i>Medicago sativa</i> hay to sheep: Nutritional impact, characterization and degradation of condensed tannin during digestion. <i>Animal Feed Science and Technology</i> , 2018, 245, 41-47.	1.1	11
47	Ecological Intensification of Food Production by Integrating Forages. <i>Agronomy</i> , 2021, 11, 2580.	1.3	11
48	Adjuvants for Prohexadione-â€‘Calcium Applied to Alfalfa Interseeded into Corn. <i>Agronomy Journal</i> , 2018, 110, 2687-2690.	0.9	10
49	Incorporation of Flavonoid Derivatives or Pentagalloyl Glucose into Lignin Enhances Cell Wall Saccharification Following Mild Alkaline or Acidic Pretreatments. <i>Bioenergy Research</i> , 2015, 8, 1391-1400.	2.2	8
50	Benefits of alfalfa interseeding include reduced residual soil nitrate following corn production. <i>Agricultural and Environmental Letters</i> , 2021, 6, e20053.	0.8	8
51	Interseeding alfalfa into corn silage increases corn N fertilizer demand and increases system yield. <i>Agronomy for Sustainable Development</i> , 2021, 41, 1.	2.2	8
52	PRE- and POST-applied herbicide options for alfalfa interseeded with corn silage. <i>Weed Technology</i> , 2021, 35, 263-270.	0.4	7
53	Differential survival of alfalfa varieties interseeded into corn silage. <i>Crop Science</i> , 2021, 61, 1797-1808.	0.8	7
54	Direct versus Sequential Analysis of Procyanidin- and Prodelphinidin-Based Condensed Tannins by the HCl-â€‘Butanol-â€‘Acetone-â€‘Iron Assay. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 2906-2916.	2.4	5

#	ARTICLE	IF	CITATIONS
55	Establishment and First Year Yield of Interseeded Alfalfa as Influenced by Corn Plant Density and Treatment with Prohexadione, Fungicide and Insecticide. <i>Agronomy</i> , 2021, 11, 2343.	1.3	5
56	Severe inhibition of maize wall degradation by synthetic lignins formed with coniferaldehyde. <i>Journal of the Science of Food and Agriculture</i> , 1998, 78, 81-87.	1.7	4
57	Relationships between Cell Wall Digestibility and Lignin Content as Influenced by Lignin Type and Analysis Method. <i>Crop Science</i> , 2019, 59, 1122-1132.	0.8	3
58	Sorghum-Sudangrass Responses to Nitrogen and Tillage following Polyphenol-Containing Legumes, Alfalfa, Reed Canarygrass, and Kale. <i>Agronomy Journal</i> , 2017, 109, 2050-2062.	0.9	1