

# John Ralph

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5311983/john-ralph-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

391  
papers

37,442  
citations

101  
h-index

182  
g-index

413  
ext. papers

43,317  
ext. citations

7  
avg. IF

7.51  
L-index

#	Paper	IF	Citations
391	High-throughput platform for yeast morphological profiling predicts the targets of bioactive compounds.. <i>Npj Systems Biology and Applications</i> , <b>2022</b> , 8, 3	5	0
390	Density functional theory study on the coupling and reactions of diferuloylputrescine as a lignin monomer.. <i>Phytochemistry</i> , <b>2022</b> , 197, 113122	4	
389	Integrating lignin depolymerization with microbial funneling processes using agronomically relevant feedstocks. <i>Green Chemistry</i> , <b>2022</b> , 24, 2795-2811	10	0
388	Functional and structural insight into the flexibility of cytochrome P450 reductases from Sorghum bicolor and its implications for lignin composition.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101761	5.4	0
387	Synthesis of hydroxycinnamoyl shikimates and their role in monolignol biosynthesis. <i>Holzforschung</i> , <b>2022</b> , 76, 133-144	2	1
386	The Sorghum () Gene Encodes a Chalcone Isomerase Required for Cell Wall Lignification.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 732307	6.2	0
385	Exogenous chalcone synthase expression in developing poplar xylem incorporates naringenin into lignins. <i>Plant Physiology</i> , <b>2021</b> ,	6.6	3
384	Incorporation of catechyl monomers into lignins: lignification from the non-phenolic end via Diels-Alder cycloaddition?. <i>Green Chemistry</i> , <b>2021</b> , 23, 8995-9013	10	1
383	Knockout of the lignin pathway gene BnF5H decreases the S/G lignin compositional ratio and improves Sclerotinia sclerotiorum resistance in Brassica napus. <i>Plant, Cell and Environment</i> , <b>2021</b> ,	8.4	2
382	Flavonoids naringenin chalcone, naringenin, dihydrotricin, and triclin are lignin monomers in papyrus. <i>Plant Physiology</i> , <b>2021</b> ,	6.6	6
381	Radical Coupling Reactions of Hydroxystilbene Glucosides and Coniferyl Alcohol: A Density Functional Theory Study. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 642848	6.2	3
380	Lignin Monomers Derived from the Flavonoid and Hydroxystilbene Biosynthetic Pathways <b>2021</b> , 177-206		3
379	Overexpression of a Sugarcane BAHD Acyltransferase Alters Hydroxycinnamate Content in Maize Cell Wall. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 626168	6.2	3
378	A multi-omics approach to lignocellulolytic enzyme discovery reveals a new ligninase activity from NO1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
377	Stacking AsFMT overexpression with BdPMT loss of function enhances monolignol ferulate production in Brachypodium distachyon. <i>Plant Biotechnology Journal</i> , <b>2021</b> , 19, 1878-1886	11.6	1
376	Pith-specific lignification in Nicotiana attenuata as a defense against a stem-boring herbivore. <i>New Phytologist</i> , <b>2021</b> , 232, 332-344	9.8	3
375	Guidelines for performing lignin-first biorefining. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 262-292	35.4	143

374	Rewired phenolic metabolism and improved saccharification efficiency of a Zea mays cinnamyl alcohol dehydrogenase 2 (zmcad2) mutant. <i>Plant Journal</i> , <b>2021</b> , 105, 1240-1257	6.9	4
373	Maize specialized metabolome networks reveal organ-preferential mixed glycosides. <i>Computational and Structural Biotechnology Journal</i> , <b>2021</b> , 19, 1127-1144	6.8	6
372	CRISPR-Cas9 editing of CAFFEOYL SHIKIMATE ESTERASE 1 and 2 shows their importance and partial redundancy in lignification in <i>Populus tremula</i> [P. alba]. <i>Plant Biotechnology Journal</i> , <b>2021</b> , 19, 2221-2234	11.6	6
371	A facile spectroscopic method for measuring lignin content in lignocellulosic biomass. <i>Green Chemistry</i> , <b>2021</b> , 23, 5106-5112	10	7
370	A bacterial biosynthetic pathway for methylated furan fatty acids. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 9786-9801	5.4	7
369	Mechanistic Study of Diaryl Ether Bond Cleavage during Palladium-Catalyzed Lignin Hydrogenolysis. <i>ChemSusChem</i> , <b>2020</b> , 13, 4487-4494	8.3	20
368	Lignin Monomers from beyond the Canonical Monolignol Biosynthetic Pathway: Another Brick in the Wall. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4997-5012	8.3	73
367	A Century-Old Mystery Unveiled: Sekizaisou is a Natural Lignin Mutant. <i>Plant Physiology</i> , <b>2020</b> , 182, 182161828	18.28	4
366	Monolignol Benzoates Incorporate into the Lignin of Transgenic <i>Populus trichocarpa</i> Depleted in C3H and C4H. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3644-3654	8.3	19
365	Assessing the Viability of Recovery of Hydroxycinnamic Acids from Lignocellulosic Biorefinery Alkaline Pretreatment Waste Streams. <i>ChemSusChem</i> , <b>2020</b> , 13, 2012-2024	8.3	23
364	Protection Strategies Enable Selective Conversion of Biomass. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 11800-11812	18.12	5
363	Assessing the Viability of Recovery of Hydroxycinnamic Acids from Lignocellulosic Biorefinery Alkaline Pretreatment Waste Streams. <i>ChemSusChem</i> , <b>2020</b> , 13, 1922	8.3	
362	Eudicot Nutshells: Cell-Wall Composition and Biofuel Feedstock Potential. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 16274-16283	4.1	4
361	Poacic acid suppresses dollar spot and snow mould in amenity turfgrass. <i>Plant Pathology</i> , <b>2020</b> , 69, 112-119	11.9	4
360	Tailoring poplar lignin without yield penalty by combining a null and haploinsufficient CINNAMOYL-CoA REDUCTASE2 allele. <i>Nature Communications</i> , <b>2020</b> , 11, 5020	17.4	12
359	Coupling and Reactions of Lignols and New Lignin Monomers: A Density Functional Theory Study. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 11033-11045	8.3	9
358	Production of p-Coumaric Acid from Corn GVL-Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 17427-17438	8.3	16
357	Tricin and triclin-lignins in <i>Medicago</i> versus in monocots. <i>New Phytologist</i> , <b>2020</b> , 228, 11-14	9.8	3

356	Mild Acetylation and Solubilization of Ground Whole Plant Cell Walls in EmimAc: A Method for Solution-State NMR in DMSO-. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13101-13109	7.8	1
355	Improved analysis of arabinoxylan-bound hydroxycinnamate conjugates in grass cell walls. <i>Biotechnology for Biofuels</i> , <b>2020</b> , 13, 202	7.8	2
354	Involvement of CesA4, CesA7-A/B and CesA8-A/B in secondary wall formation in <i>Populus trichocarpa</i> wood. <i>Tree Physiology</i> , <b>2020</b> , 40, 73-89	4.2	14
353	Compensatory Guaiacyl Lignin Biosynthesis at the Expense of Syringyl Lignin in -Knockout Poplar. <i>Plant Physiology</i> , <b>2020</b> , 183, 123-136	6.6	16
352	Protection Strategies Enable Selective Conversion of Biomass. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11704-11716	16.4	38
351	Arabinose Conjugates Diagnostic of Ferulate-Ferulate and Ferulate-Monolignol Cross-Coupling Are Released by Mild Acidolysis of Grass Cell Walls. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 12962-12971	5.7	21
350	COSY catalyses trans-cis isomerization and lactonization in the biosynthesis of coumarins. <i>Nature Plants</i> , <b>2019</b> , 5, 1066-1075	11.5	24
349	Systematic parameterization of lignin for the CHARMM force field. <i>Green Chemistry</i> , <b>2019</b> , 21, 109-122	10	27
348	Introducing curcumin biosynthesis in <i>Arabidopsis</i> enhances lignocellulosic biomass processing. <i>Nature Plants</i> , <b>2019</b> , 5, 225-237	11.5	30
347	Imaging Changes in Cell Walls of Engineered Poplar by Stimulated Raman Scattering and Atomic Force Microscopy. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 10616-10622	8.3	5
346	H and C metabolic flux analysis elucidates in vivo thermodynamics of the ED pathway in <i>Zymomonas mobilis</i> . <i>Metabolic Engineering</i> , <b>2019</b> , 54, 301-316	9.7	30
345	Radical coupling reactions of piceatannol and monolignols: A density functional theory study. <i>Phytochemistry</i> , <b>2019</b> , 164, 12-23	4	11
344	Hydroxystilbene Glucosides Are Incorporated into Norway Spruce Bark Lignin. <i>Plant Physiology</i> , <b>2019</b> , 180, 1310-1321	6.6	26
343	Kinetic and mechanistic insights into hydrogenolysis of lignin to monomers in a continuous flow reactor. <i>Green Chemistry</i> , <b>2019</b> , 21, 3561-3572	10	35
342	Lignin biosynthesis and its integration into metabolism. <i>Current Opinion in Biotechnology</i> , <b>2019</b> , 56, 230-239	11.4	189
341	Lignin structure and its engineering. <i>Current Opinion in Biotechnology</i> , <b>2019</b> , 56, 240-249	11.4	247
340	Structural features of alternative lignin monomers associated with improved digestibility of artificially lignified maize cell walls. <i>Plant Science</i> , <b>2019</b> , 287, 110070	5.3	10
339	Effect of hydrothermal pretreatment severity on lignin inhibition in enzymatic hydrolysis. <i>Bioresource Technology</i> , <b>2019</b> , 280, 303-312	11	48

338	RNAi-suppression of barley caffeic acid O-methyltransferase modifies lignin despite redundancy in the gene family. <i>Plant Biotechnology Journal</i> , <b>2019</b> , 17, 594-607	11.6	16
337	OscAldOMT1 is a bifunctional O-methyltransferase involved in the biosynthesis of tricin-lignins in rice cell walls. <i>Scientific Reports</i> , <b>2019</b> , 9, 11597	4.9	19
336	Mild Alkaline Pretreatment for Isolation of Native-Like Lignin and Lignin-Containing Cellulose Nanofibers (LCNF) from Crop Waste. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 14135-14142	8.3	37
335	A comparative study of secondary depolymerization methods on oxidized lignins. <i>Green Chemistry</i> , <b>2019</b> , 21, 3940-3947	10	23
334	Method to Regioselectively Iodine-Tag Free-Phenolic Aromatic End-Groups in Lignin for <sup>1</sup> H- <sup>13</sup> C-HSQC NMR Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 18624-18629	8.3	2
333	Passive membrane transport of lignin-related compounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 23117-23123	11.5	49
332	Lignin-based barrier restricts pathogens to the infection site and confers resistance in plants. <i>EMBO Journal</i> , <b>2019</b> , 38, e101948	13	68
331	CAD1 and CCR2 protein complex formation in monolignol biosynthesis in <i>Populus trichocarpa</i> . <i>New Phytologist</i> , <b>2019</b> , 222, 244-260	9.8	20
330	Characteristics of Hot Water Extracts from the Bark of Cultivated Willow ( <i>Salix</i> sp.). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5566-5573	8.3	23
329	Improving wood properties for wood utilization through multi-omics integration in lignin biosynthesis. <i>Nature Communications</i> , <b>2018</b> , 9, 1579	17.4	96
328	Structural Characterization of Lignin from Maize ( <i>Zea mays</i> L.) Fibers: Evidence for Diferuloylputrescine Incorporated into the Lignin Polymer in Maize Kernels. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 4402-4413	5.7	27
327	Lignin Conversion to Low-Molecular-Weight Aromatics via an Aerobic Oxidation-Hydrolysis Sequence: Comparison of Different Lignin Sources. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 3367-3374	8.3	97
326	Engineered Lignin in Poplar Biomass Facilitates Cu-Catalyzed Alkaline-Oxidative Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2932-2941	8.3	21
325	Change in lignin structure, but not in lignin content, in transgenic poplar overexpressing the rice master regulator of secondary cell wall biosynthesis. <i>Physiologia Plantarum</i> , <b>2018</b> , 163, 170-182	4.6	12
324	Suppression of a single BAHD gene in <i>Setaria viridis</i> causes large, stable decreases in cell wall feruloylation and increases biomass digestibility. <i>New Phytologist</i> , <b>2018</b> , 218, 81-93	9.8	53
323	Selective Oxidation of Lignin Model Compounds. <i>ChemSusChem</i> , <b>2018</b> , 11, 2045-2050	8.3	26
322	Reductive Cleavage Method for Quantitation of Monolignols and Low-Abundance Monolignol Conjugates. <i>ChemSusChem</i> , <b>2018</b> , 11, 1600-1605	8.3	25
321	Mechanochemical Treatment Facilitates Two-Step Oxidative Depolymerization of Kraft Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5990-5998	8.3	38

320	Synthesis of Nepetoidin B. <i>Synlett</i> , <b>2018</b> , 29, 1229-1231	2.2	2
319	Short-term facilitation of microbial litter decomposition by ultraviolet radiation. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 838-848	10.2	28
318	Diverse lignocellulosic feedstocks can achieve high field-scale ethanol yields while providing flexibility for the biorefinery and landscape-level environmental benefits. <i>GCB Bioenergy</i> , <b>2018</b> , 10, 825-840	5.6	14
317	An uncondensed lignin depolymerized in the solid state and isolated from lignocellulosic biomass: a mechanistic study. <i>Green Chemistry</i> , <b>2018</b> , 20, 4224-4235	10	85
316	Commelinid Monocotyledon Lignins Are Acylated by -Coumarate. <i>Plant Physiology</i> , <b>2018</b> , 177, 513-521	6.6	26
315	Downregulation of p-COUMAROYL ESTER 3-HYDROXYLASE in rice leads to altered cell wall structures and improves biomass saccharification. <i>Plant Journal</i> , <b>2018</b> , 95, 796	6.9	43
314	Enzymatic Depolymerization of Lignin with Release of Syringyl, Guaiacyl, and Tricin Units. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	30
313	Variability in Lignin Composition and Structure in Cell Walls of Different Parts of MacaBa (Acrocomia aculeata) Palm Fruit. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 138-153	5.7	42
312	An "ideal lignin" facilitates full biomass utilization. <i>Science Advances</i> , <b>2018</b> , 4, eaau2968	14.3	108
311	Elucidating Tricin-Lignin Structures: Assigning Correlations in HSQC Spectra of Monocot Lignins. <i>Polymers</i> , <b>2018</b> , 10,	4.5	23
310	Gold-catalyzed conversion of lignin to low molecular weight aromatics. <i>Chemical Science</i> , <b>2018</b> , 9, 8127-8133	8.1	44
309	Reductive Cleavage Method for Quantitation of Monolignols and Low-Abundance Monolignol Conjugates. <i>ChemSusChem</i> , <b>2018</b> , 11, 1580-1580	8.3	5
308	Evaluation of Feruloylated and p-Coumaroylated Arabinosyl Units in Grass Arabinoxylans by Acidolysis in Dioxane/Methanol. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 5418-5424	5.7	20
307	Variation in energy sorghum hybrid TX08001 biomass composition and lignin chemistry during development under irrigated and non-irrigated field conditions. <i>PLoS ONE</i> , <b>2018</b> , 13, e0195863	3.7	18
306	Structural Characterization of Lignins from Willow Bark and Wood. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 7294-7300	5.7	38
305	Lignin-Derived Thioacidolysis Dimers: Reevaluation, New Products, Authentication, and Quantification. <i>ChemSusChem</i> , <b>2017</b> , 10, 830-835	8.3	30
304	Functionality and molecular weight distribution of red oak lignin before and after pyrolysis and hydrogenation. <i>Green Chemistry</i> , <b>2017</b> , 19, 1378-1389	10	59
303	Deciphering the role of the phenylpropanoid metabolism in the tolerance of <i>Capsicum annuum</i> L. to <i>Verticillium dahliae</i> Kleb. <i>Plant Science</i> , <b>2017</b> , 258, 12-20	5.3	23

302	Enhanced delignification of steam-pretreated poplar by a bacterial laccase. <i>Scientific Reports</i> , <b>2017</b> , 7, 42121	4.9	33
301	2D NMR characterization of wheat straw residual lignin after dilute acid pretreatment with different severities. <i>Holzforschung</i> , <b>2017</b> , 71, 461-469	2	36
300	Lignocellulose pretreatment in a fungus-cultivating termite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 4709-4714	11.5	58
299	Defining the Diverse Cell Populations Contributing to Lignification in Arabidopsis Stems. <i>Plant Physiology</i> , <b>2017</b> , 174, 1028-1036	6.6	27
298	Scaled-up production of poacic acid, a plant-derived antifungal agent. <i>Industrial Crops and Products</i> , <b>2017</b> , 103, 240-243	5.9	6
297	Hydroxystilbenes Are Monomers in Palm Fruit Endocarp Lignins. <i>Plant Physiology</i> , <b>2017</b> , 174, 2072-2082	6.6	61
296	The Enzyme Activity and Substrate Specificity of Two Major Cinnamyl Alcohol Dehydrogenases in Sorghum (), SbCAD2 and SbCAD4. <i>Plant Physiology</i> , <b>2017</b> , 174, 2128-2145	6.6	22
295	Natural acetylation impacts carbohydrate recovery during deconstruction of wood. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 48	7.8	25
294	Biochemical transformation of lignin for deriving valued commodities from lignocellulose. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 45, 120-126	11.4	66
293	Silencing CHALCONE SYNTHASE in Maize Impedes the Incorporation of Tricin into Lignin and Increases Lignin Content. <i>Plant Physiology</i> , <b>2017</b> , 173, 998-1016	6.6	61
292	Altering carbon allocation in hybrid poplar ( <i>Populus alba</i> L. <i>grandidentata</i> ) impacts cell wall growth and development. <i>Plant Biotechnology Journal</i> , <b>2017</b> , 15, 865-878	11.6	13
291	Characterization and Elimination of Undesirable Protein Residues in Plant Cell Wall Materials for Enhancing Lignin Analysis by Solution-State Nuclear Magnetic Resonance Spectroscopy. <i>Biomacromolecules</i> , <b>2017</b> , 18, 4184-4195	6.9	60
290	Different Routes for Conifer- and Sinapaldehyde and Higher Saccharification upon Deficiency in the Dehydrogenase CAD1. <i>Plant Physiology</i> , <b>2017</b> , 175, 1018-1039	6.6	60
289	Silencing Affects Lignification and Improves Saccharification in Poplar. <i>Plant Physiology</i> , <b>2017</b> , 175, 1040-1057	6.6	63
288	Highly Decorated Lignins in Leaf Tissues of the Canary Island Date Palm. <i>Plant Physiology</i> , <b>2017</b> , 175, 1058-1067	6.6	27
287	Chemical Pulping Advantages of Zip-lignin Hybrid Poplar. <i>ChemSusChem</i> , <b>2017</b> , 10, 3565-3573	8.3	28
286	Impact of lignin polymer backbone esters on ionic liquid pretreatment of poplar. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 101	7.8	35
285	Suppression of - increases the level of monolignol ferulates incorporated into maize lignins. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 109	7.8	21

284	Degradation of lignin βaryl ether units in Arabidopsis thaliana expressing LigD, LigF and LigG from Sphingomonas paucimobilis SYK-6. <i>Plant Biotechnology Journal</i> , <b>2017</b> , 15, 581-593	11.6	20
283	Tissue and cell-specific transcriptomes in cotton reveal the subtleties of gene regulation underlying the diversity of plant secondary cell walls. <i>BMC Genomics</i> , <b>2017</b> , 18, 539	4.5	26
282	Understanding the Physicochemical Characteristics and the Improved Enzymatic Saccharification of Corn Stover Pretreated with Aqueous and Gaseous Ammonia. <i>Bioenergy Research</i> , <b>2016</b> , 9, 67-76	3.1	41
281	Low temperature hydrogenation of pyrolytic lignin over Ru/TiO <sub>2</sub> : 2D HSQC and <sup>13</sup> C NMR study of reactants and products. <i>Green Chemistry</i> , <b>2016</b> , 18, 271-281	10	59
280	Tricin-lignins: occurrence and quantitation of tricin in relation to phylogeny. <i>Plant Journal</i> , <b>2016</b> , 88, 1046-1057	6.9	79
279	Rapid Py-GC/MS assessment of the structural alterations of lignins in genetically modified plants. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 121, 155-164	6	16
278	Sugarcane transgenics expressing MYB transcription factors show improved glucose release. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 143	7.8	17
277	Monolignol ferulate conjugates are naturally incorporated into plant lignins. <i>Science Advances</i> , <b>2016</b> , 2, e1600393	14.3	99
276	Formaldehyde stabilization facilitates lignin monomer production during biomass depolymerization. <i>Science</i> , <b>2016</b> , 354, 329-333	33.3	651
275	Effects of rearing environment on the gut antimicrobial responses of two broiler chicken lines. <i>Veterinary Immunology and Immunopathology</i> , <b>2016</b> , 178, 29-36	2	8
274	Effective alkaline metal-catalyzed oxidative delignification of hybrid poplar. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 34	7.8	35
273	Designer lignins: harnessing the plasticity of lignification. <i>Current Opinion in Biotechnology</i> , <b>2016</b> , 37, 190-200	11.4	231
272	Next-generation ammonia pretreatment enhances cellulosic biofuel production. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1215-1223	35.4	141
271	Structural Basis of Stereospecificity in the Bacterial Enzymatic Cleavage of βAryl Ether Bonds in Lignin. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 5234-46	5.4	27
270	BdCESA7, BdCESA8, and BdPMT Utility Promoter Constructs for Targeted Expression to Secondary Cell-Wall-Forming Cells of Grasses. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 55	6.2	6
269	Cell Wall Composition and Biomass Recalcitrance Differences Within a Genotypically Diverse Set of Brachypodium distachyon Inbred Lines. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 708	6.2	8
268	Wege zur Verwertung von Lignin: Fortschritte in der Biotechnik, der Bioraffination und der Katalyse. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 8296-8354	3.6	132
267	Paving the Way for Lignin Valorisation: Recent Advances in Bioengineering, Biorefining and Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8164-215	16.4	1136



266	An essential role of caffeoyl shikimate esterase in monolignol biosynthesis in <i>Medicago truncatula</i> . <i>Plant Journal</i> , <b>2016</b> , 86, 363-75	6.9	69
265	RNAi downregulation of three key lignin genes in sugarcane improves glucose release without reduction in sugar production. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 270	7.8	20
264	Enhancing digestibility and ethanol yield of <i>Populus</i> wood via expression of an engineered monolignol 4-O-methyltransferase. <i>Nature Communications</i> , <b>2016</b> , 7, 11989	17.4	44
263	Characterizing phenol-formaldehyde adhesive cure chemistry within the wood cell wall. <i>International Journal of Adhesion and Adhesives</i> , <b>2016</b> , 70, 26-36	3.4	31
262	Maize Tricin-Oligolignol Metabolites and Their Implications for Monocot Lignification. <i>Plant Physiology</i> , <b>2016</b> , 171, 810-20	6.6	43
261	Structural and Biochemical Characterization of the Early and Late Enzymes in the Lignin $\beta$ -Aryl Ether Cleavage Pathway from <i>Sphingobium</i> sp. SYK-6. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 10228-38	5.4	36
260	Isolation and characterization of new lignin streams derived from extractive-ammonia (EA) pretreatment. <i>Green Chemistry</i> , <b>2016</b> , 18, 4205-4215	10	57
259	Identification of 4-O-5-Units in Softwood Lignins via Definitive Lignin Models and NMR. <i>Biomacromolecules</i> , <b>2016</b> , 17, 1909-20	6.9	63
258	Flexible Method for Conjugation of Phenolic Lignin Model Compounds to Carrier Proteins. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 7782-7788	5.7	3
257	The Structure and Catalytic Mechanism of <i>Sorghum bicolor</i> Caffeoyl-CoA O-Methyltransferase. <i>Plant Physiology</i> , <b>2016</b> , 172, 78-92	6.6	33
256	Small glycosylated lignin oligomers are stored in <i>Arabidopsis</i> leaf vacuoles. <i>Plant Cell</i> , <b>2015</b> , 27, 695-710	11.6	62
255	Plant-derived antifungal agent p-coumaric acid targets $\beta$ -1,3-glucan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1490-7	11.5	73
254	Lignin monomer production integrated into the $\beta$ -valerolactone sugar platform. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2657-2663	35.4	174
253	Naturally p-Hydroxybenzoylated Lignins in Palms. <i>Bioenergy Research</i> , <b>2015</b> , 8, 934-952	3.1	69
252	Syringyl lignin production in conifers: Proof of concept in a Pine tracheary element system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 6218-23	11.5	74
251	Incorporation of Flavonoid Derivatives or Pentagalloyl Glucose into Lignin Enhances Cell Wall Saccharification Following Mild Alkaline or Acidic Pretreatments. <i>Bioenergy Research</i> , <b>2015</b> , 8, 1391-1400	3.1	8
250	Engineering Monolignol p-Coumarate Conjugates into Poplar and <i>Arabidopsis</i> Lignins. <i>Plant Physiology</i> , <b>2015</b> , 169, 2992-3001	6.6	33
249	Tricin, a flavonoid monomer in monocot lignification. <i>Plant Physiology</i> , <b>2015</b> , 167, 1284-95	6.6	203

248	Manipulation of Guaiacyl and Syringyl Monomer Biosynthesis in an Arabidopsis Cinnamyl Alcohol Dehydrogenase Mutant Results in Atypical Lignin Biosynthesis and Modified Cell Wall Structure. <i>Plant Cell</i> , <b>2015</b> , 27, 2195-209	11.6	90
247	Differences in the chemical structure of the lignins from sugarcane bagasse and straw. <i>Biomass and Bioenergy</i> , <b>2015</b> , 81, 322-338	5.3	153
246	Using 2D NMR spectroscopy to assess effects of UV radiation on cell wall chemistry during litter decomposition. <i>Biogeochemistry</i> , <b>2015</b> , 125, 427-436	3.8	22
245	Chemical and structural changes associated with Cu-catalyzed alkaline-oxidative delignification of hybrid poplar. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 123	7.8	13
244	Lignin/Hydroxycinnamic Acid/Polysaccharide Complexes: Synthetic Models for Regiochemical Characterization. <i>Assa, Cssa and Sssa</i> , <b>2015</b> , 201-246	0.3	8
243	Analysis of a Modern Hybrid and an Ancient Sugarcane Implicates a Complex Interplay of Factors in Affecting Recalcitrance to Cellulosic Ethanol Production. <i>PLoS ONE</i> , <b>2015</b> , 10, e0134964	3.7	12
242	Effects of PHENYLALANINE AMMONIA LYASE (PAL) knockdown on cell wall composition, biomass digestibility, and biotic and abiotic stress responses in Brachypodium. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 4317-35	7	106
241	Introduction of chemically labile substructures into Arabidopsis lignin through the use of LigD, the CDehydrogenase from Sphingobium sp. strain SYK-6. <i>Plant Biotechnology Journal</i> , <b>2015</b> , 13, 821-32	11.6	40
240	Monolignol ferulate transferase introduces chemically labile linkages into the lignin backbone. <i>Science</i> , <b>2014</b> , 344, 90-3	33.3	265
239	Stereochemical features of glutathione-dependent enzymes in the Sphingobium sp. strain SYK-6 Aryl etherase pathway. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 8656-67	5.4	46
238	p-Coumaroyl-CoA:monolignol transferase (PMT) acts specifically in the lignin biosynthetic pathway in Brachypodium distachyon. <i>Plant Journal</i> , <b>2014</b> , 77, 713-26	6.9	118
237	A click chemistry strategy for visualization of plant cell wall lignification. <i>Chemical Communications</i> , <b>2014</b> , 50, 12262-5	5.8	35
236	Determination of the Structure and Catalytic Mechanism of Sorghum bicolor Caffeic Acid O-Methyltransferase and the Structural Impact of Three brown midrib12 Mutations. <i>Plant Physiology</i> , <b>2014</b> , 165, 1440-1456	6.6	26
235	Towards lignin-protein crosslinking: amino acid adducts of a lignin model quinone methide. <i>Cellulose</i> , <b>2014</b> , 21, 1395-1407	5.5	7
234	A gel-state 2D-NMR method for plant cell wall profiling and analysis: a model study with the amorphous cellulose and xylan from ball-milled cotton linters. <i>RSC Advances</i> , <b>2014</b> , 4, 7549-7560	3.7	83
233	Accumulation of N-acetylglucosamine oligomers in the plant cell wall affects plant architecture in a dose-dependent and conditional manner. <i>Plant Physiology</i> , <b>2014</b> , 165, 290-308	6.6	20
232	A highly diastereoselective oxidant contributes to Ligninolysis by the white rot basidiomycete Ceriporiopsis subvermispora. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 7536-44	4.8	11
231	Disruption of Mediator rescues the stunted growth of a lignin-deficient Arabidopsis mutant. <i>Nature</i> , <b>2014</b> , 509, 376-80	50.4	243

230	Mutation of the inducible ARABIDOPSIS THALIANA CYTOCHROME P450 REDUCTASE2 alters lignin composition and improves saccharification. <i>Plant Physiology</i> , <b>2014</b> , 166, 1956-71	6.6	47
229	Phenylcoumaran benzylic ether reductase prevents accumulation of compounds formed under oxidative conditions in poplar xylem. <i>Plant Cell</i> , <b>2014</b> , 26, 3775-91	11.6	30
228	Systematic structural characterization of metabolites in Arabidopsis via candidate substrate-product pair networks. <i>Plant Cell</i> , <b>2014</b> , 26, 929-45	11.6	93
227	Influence of Populus genotype on gene expression by the wood decay fungus Phanerochaete chrysosporium. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 5828-35	4.8	27
226	Structure-guided analysis of catalytic specificity of the abundantly secreted chitosanase SACTE_5457 from Streptomyces sp. SirexAA-E. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2014</b> , 82, 1245-57	4.2	23
225	A group of sequence-related sphingomonad enzymes catalyzes cleavage of ßaryl ether linkages in lignin ßguaiacyl and ßsyringyl ether dimers. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 12454-63	10.3	60
224	Laccases direct lignification in the discrete secondary cell wall domains of protoxylem. <i>Plant Physiology</i> , <b>2014</b> , 166, 798-807	6.6	144
223	Improved saccharification and ethanol yield from field-grown transgenic poplar deficient in cinnamoyl-CoA reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 845-50	11.5	155
222	Catalytic Alkaline Oxidation of Lignin and its Model Compounds: a Pathway to Aromatic Biochemicals. <i>Bioenergy Research</i> , <b>2014</b> , 7, 78-86	3.1	66
221	Plant cell wall profiling by fast maximum likelihood reconstruction (FMLR) and region-of-interest (ROI) segmentation of solution-state 2D 1H-13C NMR spectra. <i>Biotechnology for Biofuels</i> , <b>2013</b> , 6, 45	7.8	18
220	Simulated moving bed chromatography: separation and recovery of sugars and ionic liquid from biomass hydrolysates. <i>ChemSusChem</i> , <b>2013</b> , 6, 2083-9	8.3	25
219	Two-Dimensional NMR Evidence for Cleavage of Lignin and Xylan Substituents in Wheat Straw Through Hydrothermal Pretreatment and Enzymatic Hydrolysis. <i>Bioenergy Research</i> , <b>2013</b> , 6, 211-221	3.1	63
218	Profiling of diferulates (plant cell wall cross-linkers) using ultrahigh-performance liquid chromatography-tandem mass spectrometry. <i>Analyst, The</i> , <b>2013</b> , 138, 6683-92	5	27
217	Ptr-miR397a is a negative regulator of laccase genes affecting lignin content in Populus trichocarpa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 10848-53	11.5	246
216	Caffeoyl shikimate esterase (CSE) is an enzyme in the lignin biosynthetic pathway in Arabidopsis. <i>Science</i> , <b>2013</b> , 341, 1103-6	33.3	310
215	Novel seed coat lignins in the Cactaceae: structure, distribution and implications for the evolution of lignin diversity. <i>Plant Journal</i> , <b>2013</b> , 73, 201-11	6.9	83
214	Suppression of CCR impacts metabolite profile and cell wall composition in Pinus radiata tracheary elements. <i>Plant Molecular Biology</i> , <b>2013</b> , 81, 105-17	4.6	36
213	Chemoselective metal-free aerobic alcohol oxidation in lignin. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 6415-8	16.4	460

212	Structural characterization of lignin isolated from coconut ( <i>Cocos nucifera</i> ) coir fibers. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 2434-45	5.7	109
211	Breeding with rare defective alleles (BRDA): a natural <i>Populus nigra</i> HCT mutant with modified lignin as a case study. <i>New Phytologist</i> , <b>2013</b> , 198, 765-776	9.8	73
210	Visualization of plant cell wall lignification using fluorescence-tagged monolignols. <i>Plant Journal</i> , <b>2013</b> , 76, 357-66	6.9	60
209	Preparation of monolignol $\beta$ -acetate, $\beta$ -hydroxycinnamate, and $\beta$ -hydroxybenzoate conjugates: selective deacylation of phenolic acetates with hydrazine acetate. <i>RSC Advances</i> , <b>2013</b> , 3, 21964	3.7	13
208	Benzoyl coenzyme a pathway-mediated metabolism of meta-hydroxy-aromatic acids in <i>Rhodospseudomonas palustris</i> . <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 4112-20	3.5	8
207	Coexistence but independent biosynthesis of catechyl and guaiacyl/syringyl lignin polymers in seed coats. <i>Plant Cell</i> , <b>2013</b> , 25, 2587-600	11.6	117
206	Loss of function of cinnamyl alcohol dehydrogenase 1 leads to unconventional lignin and a temperature-sensitive growth defect in <i>Medicago truncatula</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 13660-5	11.5	94
205	Biosynthesis and incorporation of side-chain-truncated lignin monomers to reduce lignin polymerization and enhance saccharification. <i>Plant Biotechnology Journal</i> , <b>2012</b> , 10, 609-20	11.6	119
204	Synthesis and characterization of new 5-linked pinoresinol lignin models. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 16402-10	4.8	29
203	Rapid syntheses of dehydrodiferulates via biomimetic radical coupling reactions of ethyl ferulate. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 8272-7	5.7	15
202	Whole plant cell wall characterization using solution-state 2D NMR. <i>Nature Protocols</i> , <b>2012</b> , 7, 1579-89	18.8	434
201	Syntheses of lignin-derived thioacidolysis monomers and their uses as quantitation standards. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 922-8	5.7	65
200	Structural characterization of wheat straw lignin as revealed by analytical pyrolysis, 2D-NMR, and reductive cleavage methods. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 5922-35	5.7	522
199	Epigallocatechin gallate incorporation into lignin enhances the alkaline delignification and enzymatic saccharification of cell walls. <i>Biotechnology for Biofuels</i> , <b>2012</b> , 5, 59	7.8	34
198	Metabolic engineering of novel lignin in biomass crops. <i>New Phytologist</i> , <b>2012</b> , 196, 978-1000	9.8	281
197	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> , <b>2012</b> , 60, 5152-60	5.7	26
196	Structural characterization of the lignin in the cortex and pith of elephant grass ( <i>Pennisetum purpureum</i> ) stems. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 3619-34	5.7	150
195	Effects on Lignin Structure of Coumarate 3-Hydroxylase Downregulation in Poplar. <i>Bioenergy Research</i> , <b>2012</b> , 5, 1009-1019	3.1	49

194	Hydroxycinnamate conjugates as potential monolignol replacements: in vitro lignification and cell wall studies with rosmarinic acid. <i>ChemSusChem</i> , <b>2012</b> , 5, 676-86	8.3	50
193	Cellulose microfibril angles and cell-wall polymers in different wood types of <i>Pinus radiata</i> . <i>Cellulose</i> , <b>2012</b> , 19, 1385-1404	5.5	35
192	Facile Synthesis of 4-Hydroxycinnamaldehydes. <i>Bioenergy Research</i> , <b>2012</b> , 5, 407-411	3.1	4
191	An engineered monolignol 4-o-methyltransferase depresses lignin biosynthesis and confers novel metabolic capability in <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>2012</b> , 24, 3135-52	11.6	80
190	A polymer of caffeyl alcohol in plant seeds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 1772-7	11.5	224
189	Identification of grass-specific enzyme that acylates monolignols with p-coumarate. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 8347-55	5.4	107
188	Lignification and Lignin Manipulations in Conifers. <i>Advances in Botanical Research</i> , <b>2012</b> , 61, 37-76	2.2	32
187	Environmental stresses of field growth allow cinnamyl alcohol dehydrogenase-deficient <i>Nicotiana attenuata</i> plants to compensate for their structural deficiencies. <i>Plant Physiology</i> , <b>2012</b> , 159, 1545-70	6.6	39
186	Multi-scale visualization and characterization of lignocellulosic plant cell wall deconstruction during thermochemical pretreatment. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 973	35.4	392
185	Fluorescence-tagged monolignols: synthesis, and application to studying in vitro lignification. <i>Biomacromolecules</i> , <b>2011</b> , 12, 1752-61	6.9	32
184	Reactions of dehydrodiferulates with ammonia. <i>Organic and Biomolecular Chemistry</i> , <b>2011</b> , 9, 6779-87	3.9	16
183	Multidimensional NMR analysis reveals truncated lignin structures in wood decayed by the brown rot basidiomycete <i>Postia placenta</i> . <i>Environmental Microbiology</i> , <b>2011</b> , 13, 1091-100	5.2	101
182	The DUF579 domain containing proteins IRX15 and IRX15-L affect xylan synthesis in <i>Arabidopsis</i> . <i>Plant Journal</i> , <b>2011</b> , 66, 387-400	6.9	106
181	CCoAOMT suppression modifies lignin composition in <i>Pinus radiata</i> . <i>Plant Journal</i> , <b>2011</b> , 67, 119-29	6.9	103
180	The charophycean green algae provide insights into the early origins of plant cell walls. <i>Plant Journal</i> , <b>2011</b> , 68, 201-11	6.9	172
179	Predicting allele frequencies in DNA pools using high density SNP genotyping data. <i>Animal Genetics</i> , <b>2011</b> , 42, 113-6	2.5	11
178	Science, society and biosafety of a field trial with transgenic biofuel poplars. <i>BMC Proceedings</i> , <b>2011</b> , 5, 123	2.3	2
177	Stereoselective synthesis of 1-O-feruloyl and 1-O-βinapoyl glucopyranoses. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 3729-3731	2	16

176	Significant alteration of gene expression in wood decay fungi <i>Postia placenta</i> and <i>Phanerochaete chrysosporium</i> by plant species. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 4499-507	4.8	96
175	Delineating pMDI model reactions with loblolly pine via solution-state NMR spectroscopy. Part 1. Catalyzed reactions with wood models and wood polymers. <i>Holzforschung</i> , <b>2011</b> , 65,	2	8
174	Delineating pMDI model reactions with loblolly pine via solution-state NMR spectroscopy. Part 2. Non-catalyzed reactions with the wood cell wall. <i>Holzforschung</i> , <b>2011</b> , 65,	2	7
173	Independent recruitment of an O-methyltransferase for syringyl lignin biosynthesis in <i>Selaginella moellendorffii</i> . <i>Plant Cell</i> , <b>2011</b> , 23, 2708-24	11.6	50
172	Molecular and biochemical basis for stress-induced accumulation of free and bound p-coumaraldehyde in cucumber. <i>Plant Physiology</i> , <b>2011</b> , 157, 1056-66	6.6	16
171	Lignin composition and structure in young versus adult <i>Eucalyptus globulus</i> plants. <i>Plant Physiology</i> , <b>2011</b> , 155, 667-82	6.6	212
170	Solution-State NMR of Lignocellulosic Biomass. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2011</b> , 5, 169-180	1.4	38
169	Engineering traditional monolignols out of lignin by concomitant up-regulation of F5H1 and down-regulation of COMT in <i>Arabidopsis</i> . <i>Plant Journal</i> , <b>2010</b> , 64, 885-97	6.9	99
168	Comparative transcriptome and secretome analysis of wood decay fungi <i>Postia placenta</i> and <i>Phanerochaete chrysosporium</i> . <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 3599-610	4.8	213
167	Convergent evolution of syringyl lignin biosynthesis via distinct pathways in the lycophyte <i>Selaginella</i> and flowering plants. <i>Plant Cell</i> , <b>2010</b> , 22, 1033-45	11.6	105
166	Mass spectrometry-based sequencing of lignin oligomers. <i>Plant Physiology</i> , <b>2010</b> , 153, 1464-78	6.6	143
165	Sequencing around 5-hydroxyconiferyl alcohol-derived units in caffeic acid O-methyltransferase-deficient poplar lignins. <i>Plant Physiology</i> , <b>2010</b> , 153, 569-79	6.6	44
164	Isolation of cellulolytic enzyme lignin from wood preswollen/dissolved in dimethyl sulfoxide/n-methylimidazole. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 3446-50	5.7	48
163	Understanding the impact of ionic liquid pretreatment on eucalyptus. <i>Biofuels</i> , <b>2010</b> , 1, 33-46	2	122
162	Solution-state 2D NMR of ball-milled plant cell wall gels in DMSO-d(6)/pyridine-d(5). <i>Organic and Biomolecular Chemistry</i> , <b>2010</b> , 8, 576-91	3.9	473
161	Lignin biosynthesis and structure. <i>Plant Physiology</i> , <b>2010</b> , 153, 895-905	6.6	1486
160	Lignin <b>2010</b> , 169-207		31
159	Mass spectrometry-based fragmentation as an identification tool in lignomics. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 8095-105	7.8	123

158	Modeling lignin polymerization. I. Simulation model of dehydrogenation polymers. <i>Plant Physiology</i> , <b>2010</b> , 153, 1332-44	6.6	48
157	NMR of Lignins <b>2010</b> , 137-243		132
156	Hydroxycinnamates in lignification. <i>Phytochemistry Reviews</i> , <b>2010</b> , 9, 65-83	7.7	365
155	Advances in modifying lignin for enhanced biofuel production. <i>Current Opinion in Plant Biology</i> , <b>2010</b> , 13, 313-20	9.9	187
154	Identifying new lignin bioengineering targets: 1. Monolignol-substitute impacts on lignin formation and cell wall fermentability. <i>BMC Plant Biology</i> , <b>2010</b> , 10, 114	5.3	67
153	The effects on lignin structure of overexpression of ferulate 5-hydroxylase in hybrid poplar. <i>Plant Physiology</i> , <b>2009</b> , 150, 621-35	6.6	273
152	2D-NMR (HSQC) difference spectra between specifically <sup>13</sup> C-enriched and unenriched protolignin of <i>Ginkgo biloba</i> obtained in the solution state of whole cell wall material. <i>Holzforschung</i> , <b>2009</b> , 63,	2	27
151	Suppression of 4-coumarate-CoA ligase in the coniferous gymnosperm <i>Pinus radiata</i> . <i>Plant Physiology</i> , <b>2009</b> , 149, 370-83	6.6	140
150	Identification of lignin and polysaccharide modifications in <i>Populus</i> wood by chemometric analysis of 2D NMR spectra from dissolved cell walls. <i>Molecular Plant</i> , <b>2009</b> , 2, 933-42	14.4	77
149	Discovery of lignin in seaweed reveals convergent evolution of cell-wall architecture. <i>Current Biology</i> , <b>2009</b> , 19, 169-75	6.3	288
148	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> , <b>2009</b> , 89, 122-129	4.3	102
147	Ferulate-coniferyl alcohol cross-coupled products formed by radical coupling reactions. <i>Planta</i> , <b>2009</b> , 229, 1099-108	4.7	25
146	Grass lignin acylation: p-coumaroyl transferase activity and cell wall characteristics of C3 and C4 grasses. <i>Planta</i> , <b>2009</b> , 229, 1253-67	4.7	78
145	Monoclonal antibodies to p-coumarate. <i>Phytochemistry</i> , <b>2009</b> , 70, 1366-73	4	17
144	Evidence for cleavage of lignin by a brown rot basidiomycete. <i>Environmental Microbiology</i> , <b>2008</b> , 10, 1844-9	4.9	170
143	Lignin engineering. <i>Current Opinion in Plant Biology</i> , <b>2008</b> , 11, 278-85	9.9	503
142	Cross-linking of arabinoxylans via 8-8-coupled diferulates as demonstrated by isolation and identification of diarabinosyl 8-8(cyclic)-dehydrodiferulate from maize bran. <i>Journal of Cereal Science</i> , <b>2008</b> , 47, 29-40	3.8	33
141	Novel tetrahydrofuran structures derived from beta-beta-coupling reactions involving sinapyl acetate in Kenaf lignins. <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 3681-94	3.9	74

140	Peroxidase-catalyzed oligomerization of ferulic acid esters. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 10368-75	5.7	24
139	Characterization and fermentability of an ethanol soluble high molecular weight coffee fraction. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 5960-9	5.7	22
138	Coniferyl ferulate incorporation into lignin enhances the alkaline delignification and enzymatic degradation of cell walls. <i>Biomacromolecules</i> , <b>2008</b> , 9, 2510-6	6.9	101
137	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> , <b>2008</b> , 53, 368-79	6.9	102
136	Solution-state 2D NMR of Ball-milled Plant Cell Wall Gels in DMSO-d 6. <i>Bioenergy Research</i> , <b>2008</b> , 1, 56-66.1	6.1	218
135	Characterization of nonderivatized plant cell walls using high-resolution solution-state NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , <b>2008</b> , 46, 508-17	2.1	151
134	Isolation and characterisation of a coffee melanoidin fraction. <i>Journal of the Science of Food and Agriculture</i> , <b>2008</b> , 88, 2153-2160	4.3	44
133	A potential role for sinapyl p-coumarate as a radical transfer mechanism in grass lignin formation. <i>Planta</i> , <b>2008</b> , 228, 919-28	4.7	91
132	Molecular phenotyping of lignin-modified tobacco reveals associated changes in cell-wall metabolism, primary metabolism, stress metabolism and photorespiration. <i>Plant Journal</i> , <b>2007</b> , 52, 263-85	6.9	126
131	Exploring lignification in conifers by silencing hydroxycinnamoyl-CoA:shikimate hydroxycinnamoyltransferase in <i>Pinus radiata</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 11856-61	11.5	133
130	Downregulation of cinnamoyl-coenzyme A reductase in poplar: multiple-level phenotyping reveals effects on cell wall polymer metabolism and structure. <i>Plant Cell</i> , <b>2007</b> , 19, 3669-91	11.6	280
129	Related <i>Arabidopsis</i> serine carboxypeptidase-like sinapoylglucose acyltransferases display distinct but overlapping substrate specificities. <i>Plant Physiology</i> , <b>2007</b> , 144, 1986-99	6.6	104
128	Isolation and structural identification of complex feruloylated heteroxylan side-chains from maize bran. <i>Phytochemistry</i> , <b>2006</b> , 67, 1276-86	4	96
127	NMR characterization of lignins isolated from fruit and vegetable insoluble dietary fiber. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 8352-61	5.7	74
126	Non-enzymatic reduction of quinone methides during oxidative coupling of monolignols: implications for the origin of benzyl structures in lignins. <i>Organic and Biomolecular Chemistry</i> , <b>2006</b> , 4, 3456-61	3.9	32
125	NMR Studies on the Occurrence of Spirodienone Structures in Lignins. <i>Journal of Wood Chemistry and Technology</i> , <b>2006</b> , 26, 65-79	2	94
124	Synthesis and identification of 2,5-bis-(4-hydroxy-3-methoxyphenyl)-tetrahydrofuran-3,4-dicarboxylic acid, an unanticipated ferulate 8-8-coupling product acylating cereal plant cell walls. <i>Organic and Biomolecular Chemistry</i> , <b>2006</b> , 4, 2801-6	3.9	23
123	Effects of coumarate 3-hydroxylase down-regulation on lignin structure. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 8843-53	5.4	192



122	Structural identification of dehydrotriferulic and dehydrotetraferulic acids isolated from insoluble maize bran fiber. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 6409-18	5.7	87
121	Genetical metabolomics of flavonoid biosynthesis in <i>Populus</i> : a case study. <i>Plant Journal</i> , <b>2006</b> , 47, 224-379		122
120	Simplified preparation of coniferyl and sinapyl alcohols. <i>Journal of Agricultural and Food Chemistry</i> , <b>2005</b> , 53, 3693-5	5.7	28
119	Structural elucidation of new ferulic acid-containing phenolic dimers and trimers isolated from maize bran. <i>Tetrahedron Letters</i> , <b>2005</b> , 46, 5845-5850	2	78
118	Association of non-starch polysaccharides and ferulic acid in grain amaranth ( <i>Amaranthus caudatus</i> L.) dietary fiber. <i>Molecular Nutrition and Food Research</i> , <b>2005</b> , 49, 551-9	5.9	54
117	Isolation and structural identification of diarabinosyl 8-O-4-dehydrodiferulate from maize bran insoluble fibre. <i>Phytochemistry</i> , <b>2005</b> , 66, 113-24	4	50
116	Isolation and structural characterisation of 8-O-4/8-O-4- and 8-8/8-O-4-coupled dehydrotriferulic acids from maize bran. <i>Phytochemistry</i> , <b>2005</b> , 66, 363-71	4	85
115	Phenolic profiling of caffeic acid O-methyltransferase-deficient poplar reveals novel benzodioxane oligolignols. <i>Plant Physiology</i> , <b>2004</b> , 136, 4023-36	6.6	81
114	Profiling of oligolignols reveals monolignol coupling conditions in lignifying poplar xylem. <i>Plant Physiology</i> , <b>2004</b> , 136, 3537-49	6.6	160
113	Structural characterization of lignin during <i>Pinus taeda</i> wood treatment with <i>Ceriporiopsis subvermispora</i> . <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 4073-8	4.8	85
112	Molecular phenotyping of the <i>pal1</i> and <i>pal2</i> mutants of <i>Arabidopsis thaliana</i> reveals far-reaching consequences on phenylpropanoid, amino acid, and carbohydrate metabolism. <i>Plant Cell</i> , <b>2004</b> , 16, 2749-71	11.6	305
111	Lignins: Natural polymers from oxidative coupling of 4-hydroxyphenyl- propanoids. <i>Phytochemistry Reviews</i> , <b>2004</b> , 3, 29-60	7.7	1062
110	Peroxidase-dependent cross-linking reactions of p-hydroxycinnamates in plant cell walls. <i>Phytochemistry Reviews</i> , <b>2004</b> , 3, 79-96	7.7	209
109	The gel-forming polysaccharide of psyllium husk ( <i>Plantago ovata</i> Forsk). <i>Carbohydrate Research</i> , <b>2004</b> , 339, 2009-17	2.9	244
108	Signatures of cinnamyl alcohol dehydrogenase deficiency in poplar lignins. <i>Phytochemistry</i> , <b>2004</b> , 65, 313-21	4	71
107	Preparation and relevance of a cross-coupling product between sinapyl alcohol and sinapyl p-hydroxybenzoate. <i>Organic and Biomolecular Chemistry</i> , <b>2004</b> , 2, 2888-90	3.9	68
106	Cryoprobe 3D NMR of acetylated ball-milled pine cell walls. <i>Organic and Biomolecular Chemistry</i> , <b>2004</b> , 2, 2714-5	3.9	33
105	Lignins and ferulate-coniferyl alcohol cross-coupling products in cereal grains. <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 6496-502	5.7	92

104	Genetic and molecular basis of grass cell-wall degradability. I. Lignin-cell wall matrix interactions. <i>Comptes Rendus - Biologies</i> , <b>2004</b> , 327, 455-65	1.4	198
103	Genetic and molecular basis of grass cell-wall biosynthesis and degradability. III. Towards a forage grass ideotype. <i>Comptes Rendus - Biologies</i> , <b>2004</b> , 327, 467-79	1.4	43
102	Genetic and molecular basis of grass cell wall biosynthesis and degradability. II. Lessons from brown-midrib mutants. <i>Comptes Rendus - Biologies</i> , <b>2004</b> , 327, 847-60	1.4	120
101	A new <i>Arabidopsis thaliana</i> mutant deficient in the expression of O-methyltransferase impacts lignins and sinapoyl esters. <i>Plant Molecular Biology</i> , <b>2003</b> , 51, 973-89	4.6	146
100	Isolation and identification of a ferulic acid dehydrotrimer from saponified maize bran insoluble fiber. <i>European Food Research and Technology</i> , <b>2003</b> , 217, 128-133	3.4	87
99	Structural and compositional modifications in lignin of transgenic alfalfa down-regulated in caffeic acid 3-O-methyltransferase and caffeoyl coenzyme A 3-O-methyltransferase. <i>Phytochemistry</i> , <b>2003</b> , 62, 53-65	4	102
98	Non-degradative dissolution and acetylation of ball-milled plant cell walls: high-resolution solution-state NMR. <i>Plant Journal</i> , <b>2003</b> , 35, 535-44	6.9	302
97	Lignin biosynthesis. <i>Annual Review of Plant Biology</i> , <b>2003</b> , 54, 519-46	30.7	3143
96	NMR analysis of lignins in CAD-deficient plants. Part 1. Incorporation of hydroxycinnamaldehydes and hydroxybenzaldehydes into lignins. <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 268-81	3.9	124
95	Apoplastic pH and monolignol addition rate effects on lignin formation and cell wall degradability in maize. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 4984-9	5.7	47
94	Variations in the cell wall composition of maize brown midrib mutants. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 1313-21	5.7	124
93	Sinapate dehydrodimers and sinapate-ferulate heterodimers in cereal dietary fiber. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 1427-34	5.7	86
92	Combinatorial modification of multiple lignin traits in trees through multigene cotransformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 4939-44	11.5	321
91	Cell wall hydroxycinnamates in wild rice ( <i>Zizania aquatica</i> L.) insoluble dietary fibre. <i>European Food Research and Technology</i> , <b>2002</b> , 214, 482-488	3.4	71
90	Identification of the structure and origin of thioacidolysis marker compounds for cinnamyl alcohol dehydrogenase deficiency in angiosperms. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 47412-9	5.4	65
89	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> , <b>2002</b> , 50, 6008-16	5.7	89
88	Preliminary evidence for sinapyl acetate as a lignin monomer in kenaf. <i>Chemical Communications</i> , <b>2002</b> , 90-1	5.8	67
87	Lignin Biosynthesis in Poplar: Genetic Engineering and Effects on Kraft Pulping. <i>Progress in Biotechnology</i> , <b>2001</b> , 18, 187-194		5

86	Strong decrease in lignin content without significant alteration of plant development is induced by simultaneous down-regulation of cinnamoyl CoA reductase (CCR) and cinnamyl alcohol dehydrogenase (CAD) in tobacco plants. <i>Plant Journal</i> , <b>2001</b> , 28, 257-70	6.9	209
85	Acidolysis and hot water extraction provide new insights into the composition of the induced "lignin-like" material from squash fruit. <i>Phytochemistry</i> , <b>2001</b> , 57, 1005-11	4	23
84	Elucidation of new structures in lignins of CAD- and COMT-deficient plants by NMR. <i>Phytochemistry</i> , <b>2001</b> , 57, 993-1003	4	165
83	Diferulates as structural components in soluble and insoluble cereal dietary fibre. <i>Journal of the Science of Food and Agriculture</i> , <b>2001</b> , 81, 653-660	4.3	254
82	NMR characterization of lignins from transgenic poplars with suppressed caffeic acid O-methyltransferase activity. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , <b>2001</b> , 2939-2945		39
81	NMR evidence for benzodioxane structures resulting from incorporation of 5-hydroxyconiferyl alcohol into Lignins of O-methyltransferase-deficient poplars. <i>Journal of Agricultural and Food Chemistry</i> , <b>2001</b> , 49, 86-91	5.7	98
80	Modifications in lignin and accumulation of phenolic glucosides in poplar xylem upon down-regulation of caffeoyl-coenzyme A O-methyltransferase, an enzyme involved in lignin biosynthesis. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 36899-909	5.4	188
79	Identification of 4-O-5-coupled diferulic acid from insoluble cereal fiber. <i>Journal of Agricultural and Food Chemistry</i> , <b>2000</b> , 48, 3166-9	5.7	60
78	Cross-linking of maize walls by ferulate dimerization and incorporation into lignin. <i>Journal of Agricultural and Food Chemistry</i> , <b>2000</b> , 48, 6106-13	5.7	176
77	Cross-coupling of hydroxycinnamyl aldehydes into lignins. <i>Organic Letters</i> , <b>2000</b> , 2, 2197-200	6.2	61
76	Cell Wall Structural Foundations: Molecular Basis for Improving Forage Digestibilities. <i>Crop Science</i> , <b>1999</b> , 39, 27-37	2.4	90
75	Isochroman lignin trimers from DFRC-degraded <i>Pinus taeda</i> . <i>Phytochemistry</i> , <b>1999</b> , 50, 659-666	4	38
74	A cinnamoyl esterase from <i>Aspergillus niger</i> can break plant cell wall cross-links without release of free diferulic acids. <i>FEBS Journal</i> , <b>1999</b> , 266, 644-52		27
73	Repression of lignin biosynthesis promotes cellulose accumulation and growth in transgenic trees. <i>Nature Biotechnology</i> , <b>1999</b> , 17, 808-12	44.5	594
72	Unexpected variation in lignin. <i>Current Opinion in Plant Biology</i> , <b>1999</b> , 2, 145-52	9.9	183
71	Antioxidant properties of 4,4'-dihydroxy-3,3'-dimethoxy- $\alpha$ -bicycinnamic acid (8-8-diferulic acid, non-cyclic form). <i>Journal of the Science of Food and Agriculture</i> , <b>1999</b> , 79, 379-384	4.3	64
70	Cell wall cross-linking by ferulates and diferulates in grasses. <i>Journal of the Science of Food and Agriculture</i> , <b>1999</b> , 79, 403-407	4.3	231
69	Modelling the feasibility of intramolecular dehydrodiferulate formation in grass walls. <i>Journal of the Science of Food and Agriculture</i> , <b>1999</b> , 79, 425-427	4.3	32

68	Are lignins optically active?. <i>Journal of Agricultural and Food Chemistry</i> , <b>1999</b> , 47, 2991-6	5-7	114
67	Detection and determination of p-coumaroylated units in lignins. <i>Journal of Agricultural and Food Chemistry</i> , <b>1999</b> , 47, 1988-92	5-7	145
66	Arylpropane-1,3-diols in lignins from normal and CAD-deficient pines. <i>Organic Letters</i> , <b>1999</b> , 1, 323-6	6.2	32
65	The DFRC method for lignin analysis. 7. Behavior of cinnamyl end groups. <i>Journal of Agricultural and Food Chemistry</i> , <b>1999</b> , 47, 1981-7	5-7	17
64	Cell wall cross-linking by ferulates and diferulates in grasses <b>1999</b> , 79, 403		4
63	Diferulate cross-links impede the enzymatic degradation of non-lignified maize walls. <i>Journal of the Science of Food and Agriculture</i> , <b>1998</b> , 77, 193-200	4-3	210
62	Severe inhibition of maize wall degradation by synthetic lignins formed with coniferaldehyde. <i>Journal of the Science of Food and Agriculture</i> , <b>1998</b> , 78, 81-87	4-3	38
61	Isochroman structures in lignin: a new $\beta$ pathway. <i>Tetrahedron Letters</i> , <b>1998</b> , 39, 4963-4964	2	39
60	Simple Preparation of $\beta$ -Coupled Diferulate. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 2531-2532	5-7	51
59	Ferulate Cross-Links Limit the Enzymatic Degradation of Synthetically Lignified Primary Walls of Maize. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 2609-2614	5-7	156
58	The DFRC Method for Lignin Analysis. 2. Monomers from Isolated Lignins. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 547-552	5-7	118
57	Facile Synthesis of 4-Hydroxycinnamyl p-Coumarates. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 2911-2913	5-7	31
56	The DFRC Method for Lignin Analysis. 6. A Simple Modification for Identifying Natural Acetates on Lignins. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 4616-4619	5-7	78
55	The DFRC Method for Lignin Analysis. 4. Lignin Dimers Isolated from DFRC-Degraded Loblolly Pine Wood. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 553-560	5-7	39
54	Highly Selective Syntheses of Coniferyl and Sinapyl Alcohols. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 1794-1796	5-7	21
53	Modeling Lignification in Grasses with Monolignol Dehydropolymerisate-Cell Wall Complexes. <i>ACS Symposium Series</i> , <b>1998</b> , 163-171	0.4	5
52	Cell Wall Cross-Linking in Grasses by Ferulates and Diferulates. <i>ACS Symposium Series</i> , <b>1998</b> , 209-236	0.4	55
51	Efficient Ether Cleavage in Lignins: The Derivatization Followed by Reductive Cleavage Procedure as a Basis for New Analytical Methods. <i>ACS Symposium Series</i> , <b>1998</b> , 294-322	0.4	10

50	The DFRC Method for Lignin Analysis. Part 3. NMR Studies. <i>Journal of Wood Chemistry and Technology</i> , <b>1998</b> , 18, 219-233	2	24
49	Severe inhibition of maize wall degradation by synthetic lignins formed with coniferaldehyde <b>1998</b> , 78, 81		4
48	Lignin-ferulate cross-links in grasses. Part 4.1. Incorporation of 5 $\beta$ -coupled dehydrodiferulate into synthetic lignin. <i>Journal of the Chemical Society Perkin Transactions 1</i> , <b>1997</b> , 2351-2358		36
47	Derivatization Followed by Reductive Cleavage (DFRC Method), a New Method for Lignin Analysis: Protocol for Analysis of DFRC Monomers. <i>Journal of Agricultural and Food Chemistry</i> , <b>1997</b> , 45, 2590-2592	5.7	251
46	DFRC Method for Lignin Analysis. 1. New Method for Aryl Ether Cleavage: Lignin Model Studies. <i>Journal of Agricultural and Food Chemistry</i> , <b>1997</b> , 45, 4655-4660	5.7	162
45	p-Hydroxyphenyl, Guaiacyl, and Syringyl Lignins Have Similar Inhibitory Effects on Wall Degradability. <i>Journal of Agricultural and Food Chemistry</i> , <b>1997</b> , 45, 2530-2532	5.7	90
44	Formation of ferulic acid dehydrodimers through oxidative cross-linking of sugar beet pectin. <i>Carbohydrate Research</i> , <b>1997</b> , 300, 179-181	2.9	70
43	Dehydrogenation Polymer Cell Wall Complexes as a Model for Lignified Grass Walls. <i>Journal of Agricultural and Food Chemistry</i> , <b>1996</b> , 44, 1453-1459	5.7	57
42	An Unusual Lignin from Kenaf. <i>Journal of Natural Products</i> , <b>1996</b> , 59, 341-342	4.9	110
41	Cell Wall Esterified Phenolic Dimers: Identification and Quantification by Reverse Phase High Performance Liquid Chromatography and Diode Array Detection. <i>Phytochemical Analysis</i> , <b>1996</b> , 7, 305-312	3.4	248
40	p-coumaroylated syringyl units in maize lignin: Implications for ether cleavage by thioacidolysis. <i>Phytochemistry</i> , <b>1996</b> , 43, 1189-1194	4	114
39	Dimeric Ether Thioacidolysis Products Resulting from Incomplete Ether Cleavage. <i>Holzforschung</i> , <b>1996</b> , 50, 425-428	2	19
38	Reactions of Lignin Model Aryl Ethers with Acetyl Bromide. <i>Holzforschung</i> , <b>1996</b> , 50, 360-364	2	14
37	Ferulate cross-linking in cell walls isolated from maize cell suspensions. <i>Phytochemistry</i> , <b>1995</b> , 40, 1077-1082	1.4	202
36	Lignin-ferulate cross-links in grasses: active incorporation of ferulate polysaccharide esters into ryegrass lignins. <i>Carbohydrate Research</i> , <b>1995</b> , 275, 167-178	2.9	334
35	A Biomimetic Route to Lignin Model Compounds via Silver (I) Oxide Oxidation. 2. NMR Characterization of Non-Cyclic Benzyl Aryl Ether Trimers and Tetramers. <i>Holzforschung</i> , <b>1994</b> , 48, 124-132	2	11
34	A Biomimetic Route to Lignin Model Compounds via Silver (I) Oxide Oxidation. 1. Synthesis of Dilignols and Non-cyclic Benzyl Aryl Ethers. <i>Holzforschung</i> , <b>1994</b> , 48, 12-22	2	54
33	A comparison of the insoluble residues produced by the Klason lignin and acid detergent lignin procedures. <i>Journal of the Science of Food and Agriculture</i> , <b>1994</b> , 65, 51-58	4.3	227

32	Pathway of p-Coumaric Acid Incorporation into Maize Lignin As Revealed by NMR. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 9448-9456	16.4	337
31	Identification and synthesis of new ferulic acid dehydromers present in grass cell walls. <i>Journal of the Chemical Society Perkin Transactions 1</i> , <b>1994</b> , 3485		290
30	Synthesis of 4,8-bis(4-hydroxy-3-methoxyphenyl)-3,7-dioxabicyclo[3.3.0]octan-2-ones and determination of their relative configuration via long-range proton couplings. <i>Journal of the Chemical Society Perkin Transactions 1</i> , <b>1993</b> , 653		13
29	Lignin-hydroxycinnamoyl model compounds related to forage cell wall structure. 2. Ester-linked structures. <i>Journal of Agricultural and Food Chemistry</i> , <b>1993</b> , 41, 570-576	5.7	19
28	Stereospecificity for the Zinc Borohydride Reduction of $\beta$ -Aryloxy- $\beta$ -Hydroxy Ketones. <i>Journal of Wood Chemistry and Technology</i> , <b>1993</b> , 13, 593-601	2	12
27	Synthesis and spectroscopic characterization of hydroxycinnamoylated methyl $\alpha$ -L-arabinofuranosyl-(1 $\rightarrow$ 2)- and (1 $\rightarrow$ 3)- $\beta$ -D-xylopyranosides. <i>Carbohydrate Research</i> , <b>1993</b> , 240, 23-38	2.9	5
26	$^1\text{H}$ NMR of acetylated $\beta$ -ether/ $\beta$ -ether lignin model trimers. <i>Magnetic Resonance in Chemistry</i> , <b>1993</b> , 31, 357-363	2.1	13
25	Impact of methyl 5-O-(E)-feruloyl- $\beta$ -L-arabinofuranoside on in-vitro degradation of cellulose and xylan. <i>Journal of the Science of Food and Agriculture</i> , <b>1993</b> , 61, 423-427	4.3	5
24	Facile large-scale synthesis of coniferyl, sinapyl, and p-coumaryl alcohol. <i>Journal of Agricultural and Food Chemistry</i> , <b>1992</b> , 40, 1108-1110	5.7	136
23	Lignin-feruloyl ester cross-links in grasses. Part 2. Model compound syntheses. <i>Journal of the Chemical Society Perkin Transactions 1</i> , <b>1992</b> , 2971-2980		24
22	Lignin-feruloyl ester cross-links in grasses. Part 1. Incorporation of feruloyl esters into coniferyl alcohol dehydrogenation polymers. <i>Journal of the Chemical Society Perkin Transactions 1</i> , <b>1992</b> , 2961-2969		89
21	Lignin-hydroxycinnamyl model compounds related to forage cell wall structure. 1. Ether-linked structures. <i>Journal of Agricultural and Food Chemistry</i> , <b>1992</b> , 40, 2167-2175	5.7	39
20	Synthesis of feruloylated and p-coumaroylated methyl glycosides. <i>Carbohydrate Research</i> , <b>1992</b> , 229, 183-194	2.9	37
19	Synthesis of methyl 5-O-trans-feruloyl- $\alpha$ -L-arabinofuranoside and its use as a substrate to assess feruloyl esterase activity. <i>Analytical Biochemistry</i> , <b>1991</b> , 194, 25-33	3.1	57
18	Degradability of phenolic acid-hemicellulose esters: A model system. <i>Journal of the Science of Food and Agriculture</i> , <b>1991</b> , 56, 469-478	4.3	30
17	The Stereochemistry of Guaiacyl Lignin Model Quinone Methides. <i>Holzforschung</i> , <b>1991</b> , 45, 199-204	2	5
16	Rapid proton NMR method for determination of threo:erythro ratios in lignin model compounds and examination of reduction stereochemistry. <i>Journal of Agricultural and Food Chemistry</i> , <b>1991</b> , 39, 705-709	5.7	25
15	Pyrolysis-GC-MS characterization of forage materials. <i>Journal of Agricultural and Food Chemistry</i> , <b>1991</b> , 39, 1426-1437	5.7	506

14	Evidence for Increased Steric Compression in Anti Compared to Syn Lignin Model Quinone Methides. <i>Journal of Wood Chemistry and Technology</i> , <b>1990</b> , 10, 101-110	2	11
13	A One- and Two-Dimensional <sup>13</sup> C and <sup>1</sup> H N.M.R. Study of Some Triterpenes of the Hopane, Stictane and Flavicene Groups. <i>Australian Journal of Chemistry</i> , <b>1989</b> , 42, 243	1.2	11
12	Reactions of PARYL Lignin Model Quinone Methides with Anthrahydroquinone and Anthranol. <i>Journal of Wood Chemistry and Technology</i> , <b>1987</b> , 7, 133-160	2	16
11	Adducts of Anthrahydroquinone and Anthranol with Lignin Model Quinone Methides. 9,10- <sup>13</sup> C Labelled Anthranol-Lignin Adducts; Examination of Adduct Formation and Stereochemistry in the Polymer. <i>Journal of Wood Chemistry and Technology</i> , <b>1986</b> , 6, 73-88	2	2
10	Anthraquinone Losses During Alkaline Pulping. <i>Journal of Wood Chemistry and Technology</i> , <b>1984</b> , 4, 149-161		2
9	Adducts of anthrahydroquinone and anthranol with lignin model quinone methides. 4. Proton NMR hindered rotation studies. Correlation between solution conformations and x-ray crystal structure. <i>Journal of Organic Chemistry</i> , <b>1984</b> , 49, 3337-3340	4.2	9
8	Adducts of anthrahydroquinone and anthranol with lignin model quinone methides. 3. Independent synthesis of threo and erythro isomers. <i>Journal of Organic Chemistry</i> , <b>1983</b> , 48, 3884-3889	4.2	8
7	Adducts of anthrahydroquinone and anthranol with lignin model quinone methides. 2. Dehydration derivatives. Proof of threo configuration. <i>Journal of Organic Chemistry</i> , <b>1983</b> , 48, 372-376	4.2	15
6	Stereochemical Aspects of Addition Reactions Involving Lignin Model Quinone Methides. <i>Journal of Wood Chemistry and Technology</i> , <b>1983</b> , 3, 161-181	2	45
5	Determination of the Conformation and Isomeric Composition of Lignin Model Quinone Methides By NMR. <i>Journal of Wood Chemistry and Technology</i> , <b>1983</b> , 3, 183-194	2	18
4	Characterization of Hardwood Lignin: Investigation of Syringyl/Guaiacyl Composition by <sup>13</sup> C Nuclear Magnetic Resonance Spectroscopy. <i>Holzforschung</i> , <b>1983</b> , 37, 297-302	2	23
3	Adducts of anthrahydroquinone and anthranol with lignin model quinone methides. 1. Synthesis and characterization. <i>Journal of Organic Chemistry</i> , <b>1982</b> , 47, 3486-3495	4.2	25
2	Quinone Methides in Lignification 385-420		18
1	Lignification: are Lignins Biosynthesized via simple Combinatorial Chemistry or via Proteinaceous Control and Template Replication? 36-66		71