Fang Chen

List of Publications by Year
in descending order

30 papers	8,667 citations	218677 26 h-index	454955 30 g-index
30 all docs	30 docs citations	30 times ranked	8856 citing authors

#	Article	IF	Citations
1	Developmental changes in lignin composition are driven by both monolignol supply and laccase specificity. Science Advances, 2022, 8, eabm8145.	10.3	26
2	Dual Mechanisms of Coniferyl Alcohol in Phenylpropanoid Pathway Regulation. Frontiers in Plant Science, 2022, 13, .	3.6	8
3	A rapid thioacidolysis method for biomass lignin composition and tricin analysis. Biotechnology for Biofuels, 2021, 14, 18.	6.2	15
4	Substrate Specificity of LACCASE8 Facilitates Polymerization of Caffeyl Alcohol for C-Lignin Biosynthesis in the Seed Coat of <i>Cleome hassleriana</i>. Plant Cell, 2020, 32, 3825-3845.	6.6	35
5	Passive membrane transport of lignin-related compounds. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23117-23123.	7.1	94
6	Enzymatic basis for Câ€lignin monomer biosynthesis in the seed coat of <i>Cleome hassleriana</i>. Plant Journal, 2019, 99, 506-520.	5.7	31
7	An â€œideal ligninâ€•facilitates full biomass utilization. Science Advances, 2018, 4, eaau2968.	10.3	184
8	Reductive Catalytic Fractionation of C-Lignin. ACS Sustainable Chemistry and Engineering, 2018, 6, 11211-11218.	6.7	89
9	Role of bifunctional ammonia-lyase in grass cell wall biosynthesis. Nature Plants, 2016, 2, 16050.	9.3	242
10	Transcriptome analysis of secondary cell wall development in Medicago truncatula. BMC Genomics, 2016, 17, 23.	2.8	22
11	Superior plant based carbon fibers from electrospun poly-(caffeyl alcohol) lignin. Carbon, 2016, 103, 372-383.	10.3	56
12	A deep transcriptomic analysis of pod development in the vanilla orchid (Vanilla planifolia). BMC Genomics, 2014, 15, 964.	2.8	42
13	Lignin Valorization: Improving Lignin Processing in the Biorefinery. Science, 2014, 344, 1246843.	12.6	2,994
14	<i>LACCASE</i> Is Necessary and Nonredundant with <i>PEROXIDASE</i> for Lignin Polymerization during Vascular Development in <i>Arabidopsis</i> Â Â. Plant Cell, 2013, 25, 3976-3987.	6.6	453
15	Novel seed coat lignins in the <scp>C</scp>actaceae: structure, distribution and implications for the evolution of lignin diversity. Plant Journal, 2013, 73, 201-211.	5.7	121
16	Coexistence but Independent Biosynthesis of Catechyl and Guaiacyl/Syringyl Lignin Polymers in Seed Coats. Plant Cell, 2013, 25, 2587-2600.	6.6	161
17	A polymer of caffeyl alcohol in plant seeds. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1772-1777.	7.1	314
18	Genetic manipulation of lignin reduces recalcitrance and improves ethanol production from switchgrass. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3803-3808.	7.1	585

#	Article	IF	Citations
19	NAC domain function and transcriptional control of a secondary cell wall master switch. Plant Journal, 2011, 68, 1104-1114.	5.7	112
20	An NAC transcription factor orchestrates multiple features of cell wall development in Medicago truncatula. Plant Journal, 2010, 63, no-no.	5.7	109
21	Mutation of WRKY transcription factors initiates pith secondary wall formation and increases stem biomass in dicotyledonous plants. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22338-22343.	7.1	338
22	Syringyl lignin biosynthesis is directly regulated by a secondary cell wall master switch. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14496-14501.	7.1	103
23	Distinct cinnamoyl CoA reductases involved in parallel routes to lignin in <i>Medicago truncatula</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17803-17808.	7.1	101
24	Multiâ€site genetic modification of monolignol biosynthesis in alfalfa (<i>Medicago sativa</i>): effects on lignin composition in specific cell types. New Phytologist, 2008, 179, 738-750.	7.3	113
25	Lignin modification improves fermentable sugar yields for biofuel production. Nature Biotechnology, 2007, 25, 759-761.	17.5	1,135
26	Multi-site genetic modulation of monolignol biosynthesis suggests new routes for formation of syringyl lignin and wall-bound ferulic acid in alfalfa (Medicago sativaL.). Plant Journal, 2006, 48, 113-124.	5.7	171
27	Targeted down-regulation of cytochrome P450 enzymes for forage quality improvement in alfalfa (Medicago sativa L.). Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16573-16578.	7.1	306
28	Structural and compositional modifications in lignin of transgenic alfalfa down-regulated in caffeic acid 3-O-methyltransferase and caffeoyl coenzyme A 3-O-methyltransferase. Phytochemistry, 2003, 62, 53-65.	2.9	120
29	Downregulation of Caffeic Acid 3-O-Methyltransferase and Caffeoyl CoA 3-O-Methyltransferase in Transgenic Alfalfa: Impacts on Lignin Structure and Implications for the Biosynthesis of G and S Lignin. Plant Cell, 2001, 13, 73-88.	6.6	437
30	Substrate preferences of O-methyltransferases in alfalfa suggest new pathways for 3-O-methylation of monolignols. Plant Journal, 2001, 25, 193-202.	5.7	150