

# Oswaldo Ferrarese-Filho

## List of Publications by Year in descending order

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91  
papers

3,083  
citations

159585

30  
h-index

175258

52  
g-index

91  
all docs

91  
docs citations

91  
times ranked

3748  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferulic acid: a key component in grass lignocellulose recalcitrance to hydrolysis. <i>Plant Biotechnology Journal</i> , 2015, 13, 1224-1232.	8.3	210
2	The Acetyl Bromide Method Is Faster, Simpler and Presents Best Recovery of Lignin in Different Herbaceous Tissues than Klason and Thioglycolic Acid Methods. <i>PLoS ONE</i> , 2014, 9, e110000.	2.5	205
3	Biosynthesis and metabolic actions of simple phenolic acids in plants. <i>Phytochemistry Reviews</i> , 2020, 19, 865-906.	6.5	182
4	The role of L-DOPA in plants. <i>Plant Signaling and Behavior</i> , 2014, 9, e28275.	2.4	115
5	Cadmium-induced lignification restricts soybean root growth. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1959-1964.	6.0	112
6	Soybean ( <i>Glycine max</i> ) Root Lignification Induced by Ferulic Acid. The Possible Mode of Action. <i>Journal of Chemical Ecology</i> , 2008, 34, 1230-1241.	1.8	102
7	Exogenous caffeic acid inhibits the growth and enhances the lignification of the roots of soybean ( <i>Glycine max</i> ). <i>Journal of Plant Physiology</i> , 2011, 168, 1627-1633.	3.5	98
8	Cinnamic Acid Increases Lignin Production and Inhibits Soybean Root Growth. <i>PLoS ONE</i> , 2013, 8, e69105.	2.5	98
9	Root Growth Inhibition and Lignification Induced by Salt Stress in Soybean. <i>Journal of Agronomy and Crop Science</i> , 2010, 196, 467-473.	3.5	97
10	Lignification and Related Enzymes in <i>Glycine max</i> Root Growth-Inhibition by Ferulic Acid. <i>Journal of Chemical Ecology</i> , 2004, 30, 1203-1212.	1.8	96
11	Suppression of a single <i>BAHD</i> gene in <i>Setaria viridis</i> causes large, stable decreases in cell wall feruloylation and increases biomass digestibility. <i>New Phytologist</i> , 2018, 218, 81-93.	7.3	91
12	Feruloyl esterases: Biocatalysts to overcome biomass recalcitrance and for the production of bioactive compounds. <i>Bioresource Technology</i> , 2019, 278, 408-423.	9.6	90
13	Soybean root growth inhibition and lignification induced by p-coumaric acid. <i>Environmental and Experimental Botany</i> , 2009, 66, 25-30.	4.2	83
14	Heat stress causes alterations in the cell-wall polymers and anatomy of coffee leaves ( <i>Coffea arabica</i> )	16.2	81
15	Cell wall remodeling under salt stress: Insights into changes in polysaccharides, feruloylation, lignification, and phenolic metabolism in maize. <i>Plant, Cell and Environment</i> , 2020, 43, 2172-2191.	5.7	79
16	Methylxanthines and phenolic compounds in mate ( <i>Ilex paraguariensis</i> St. Hil.) progenies grown in Brazil. <i>Journal of Food Composition and Analysis</i> , 2007, 20, 553-558.	3.9	66
17	Lignification and related parameters in copper-exposed <i>Matricaria chamomilla</i> roots: Role of H <sub>2</sub> O <sub>2</sub> and NO in this process. <i>Plant Science</i> , 2010, 179, 383-389.	3.6	59
18	Plant cell wall composition and enzymatic deconstruction. <i>AIMS Bioengineering</i> , 2018, 5, 63-77.	1.1	56

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19	Hydrogen peroxide-acetic acid pretreatment increases the saccharification and enzyme adsorption on lignocellulose. <i>Industrial Crops and Products</i> , 2019, 140, 111657.	5.2	47
20	Salt stress alters the cell wall polysaccharides and anatomy of coffee ( <i>Coffea arabica</i> L.) leaf cells. <i>Carbohydrate Polymers</i> , 2014, 112, 686-694.	10.2	46
21	Proximate composition and fatty acid profile of <i>Bombyx mori</i> L. chrysalis toast. <i>Journal of Food Composition and Analysis</i> , 2003, 16, 451-457.	3.9	41
22	Enhanced Lignin Monomer Production Caused by Cinnamic Acid and Its Hydroxylated Derivatives Inhibits Soybean Root Growth. <i>PLoS ONE</i> , 2013, 8, e80542.	2.5	41
23	Peroxidase and lipid peroxidation of soybean roots in response to p-coumaric and p-hydroxybenzoic acids. <i>Brazilian Archives of Biology and Technology</i> , 2003, 46, 193-198.	0.5	38
24	Lignin plays a key role in determining biomass recalcitrance in forage grasses. <i>Renewable Energy</i> , 2020, 147, 2206-2217.	8.9	38
25	Glyphosate affects lignin content and amino acid production in glyphosate-resistant soybean. <i>Acta Physiologiae Plantarum</i> , 2010, 32, 831-837.	2.1	36
26	Peroxidase and phenylalanine ammonia-lyase activities, phenolic acid contents, and allelochemicals-inhibited root growth of soybean. <i>Biological Research</i> , 2002, 35, 59-66.	3.4	36
27	Phenylalanine Ammonia-Lyase Activity in Soybean Roots Extract Measured by Reverse-Phase High Performance Liquid Chromatography. <i>Plant Biology</i> , 2000, 2, 152-153.	3.8	35
28	Nitric oxide affecting root growth, lignification and related enzymes in soybean seedlings. <i>Acta Physiologiae Plantarum</i> , 2010, 32, 1039-1046.	2.1	33
29	The Allelochemical L-DOPA Increases Melanin Production and Reduces Reactive Oxygen Species in Soybean Roots. <i>Journal of Chemical Ecology</i> , 2011, 37, 891-898.	1.8	32
30	The effects of dopamine on root growth and enzyme activity in soybean seedlings. <i>Plant Signaling and Behavior</i> , 2013, 8, e25477.	2.4	32
31	The effects of dopamine on antioxidant enzymes activities and reactive oxygen species levels in soybean roots. <i>Plant Signaling and Behavior</i> , 2014, 9, e977704.	2.4	31
32	Lipid Accumulation during Canola Seed Germination in Response to Cinnamic Acid Derivatives. <i>Biologia Plantarum</i> , 2000, 43, 313-316.	1.9	30
33	Inhibition of <i>Zea mays</i> coniferyl aldehyde dehydrogenase by daidzin: A potential approach for the investigation of lignocellulose recalcitrance. <i>Process Biochemistry</i> , 2020, 90, 131-138.	3.7	30
34	Peroxidase activity and lignification in soybean root growth-inhibition by juglone. <i>Biologia Plantarum</i> , 2006, 50, 315-317.	1.9	28
35	A new procedure for quantification of lignin in soybean ( <i>Glycine max</i> (L.) Merrill) seed coat and their relationship with the resistance to mechanical damage. <i>Seed Science and Technology</i> , 2005, 33, 511-515.	1.4	27
36	Naringenin inhibits the growth and stimulates the lignification of soybean root. <i>Brazilian Archives of Biology and Technology</i> , 2010, 53, 533-542.	0.5	27

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37	Suppression of a BAHD acyltransferase decreases <i>p</i> -coumaroyl on arabinoxylan and improves biomass digestibility in the model grass <i>Setaria viridis</i> . <i>Plant Journal</i> , 2021, 105, 136-150.	5.7	27
38	High performance liquid chromatography method for the determination of cinnamyl alcohol dehydrogenase activity in soybean roots. <i>Plant Physiology and Biochemistry</i> , 2006, 44, 511-515.	5.8	26
39	Glyphosate-induced metabolic changes in susceptible and glyphosate-resistant soybean ( <i>Glycine max</i> L.) roots. <i>Pesticide Biochemistry and Physiology</i> , 2009, 93, 28-33.	3.6	26
40	The photodynamic and direct actions of methylene blue on mitochondrial energy metabolism: A balance of the useful and harmful effects of this photosensitizer. <i>Free Radical Biology and Medicine</i> , 2020, 153, 34-53.	2.9	25
41	The effects of L-DOPA on root growth, lignification and enzyme activity in soybean seedlings. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 1811-1817.	2.1	23
42	Canola ( <i>Brassica napus</i> L.) seed germination influenced by cinnamic and benzoic acids and derivatives: effects on peroxidase. <i>Seed Science and Technology</i> , 2003, 31, 39-46.	1.4	22
43	Selective Liquid CO <sub>2</sub> Extraction of Purine Alkaloids in Different <i>Ilex paraguariensis</i> Progenies Grown under Environmental Influences. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 6835-6841.	5.2	22
44	Lignin content and peroxidase activity in soybean seed coat susceptible and resistant to mechanical damage. <i>Acta Physiologiae Plantarum</i> , 2005, 27, 103-108.	2.1	21
45	Role of Calcium on Phenolic Compounds and Enzymes Related to Lignification in Soybean ( <i>Glycine max</i> ) Tj ETQq1 1,0784314, 10 <sup>3</sup> BT / C 3.4 20gBT / C	1.0784314	20
46	Ferulic acid uptake by soybean root in nutrient culture. <i>Acta Physiologiae Plantarum</i> , 2000, 22, 121-124.	2.1	18
47	Î±-Tocopherol levels in natural and artificial aging of soybean seeds. <i>Acta Scientiarum - Agronomy</i> , 2012, 34, .	0.6	18
48	L-DOPA Increases Lignification Associated with <i>Glycine max</i> Root Growth-Inhibition. <i>Journal of Chemical Ecology</i> , 2007, 33, 265-275.	1.8	17
49	Root Growth and Enzymes Related to the Lignification of Maize Seedlings Exposed to the Allelochemical L-DOPA. <i>Scientific World Journal</i> , The, 2013, 2013, 1-6.	2.1	17
50	Exogenous application of rosmarinic acid improves saccharification without affecting growth and lignification of maize. <i>Plant Physiology and Biochemistry</i> , 2019, 142, 275-282.	5.8	16
51	Quantitative genetic analysis of methylxanthines and phenolic compounds in mate progenies. <i>Pesquisa Agropecuaria Brasileira</i> , 2010, 45, 171-177.	0.9	15
52	Designing xylan for improved sustainable biofuel production. <i>Plant Biotechnology Journal</i> , 2019, 17, 2225-2227.	8.3	15
53	Titanium Dioxide Nanoparticles Induce Root Growth Inhibition in Soybean Due to Physical Damages. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	14
54	Aluminum oxide nanoparticles affect the cell wall structure and lignin composition slightly altering the soybean growth. <i>Plant Physiology and Biochemistry</i> , 2021, 159, 335-346.	5.8	14

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55	Photosynthetic response of soybean to L-DOPA and aqueous extracts of velvet bean. <i>Plant Growth Regulation</i> , 2016, 80, 171-182.	3.4	12
56	Carbohydrate and lipid status in soybean roots influenced by ferulic acid uptake. <i>Acta Physiologiae Plantarum</i> , 2001, 23, 421-427.	2.1	11
57	Trans-aconitic acid inhibits the growth and photosynthesis of <i>Glycine max</i> . <i>Plant Physiology and Biochemistry</i> , 2018, 132, 490-496.	5.8	11
58	Modulation of cellulase activity by lignin-related compounds. <i>Bioresource Technology Reports</i> , 2020, 10, 100390.	2.7	11
59	Transport and metabolism of palmitate in the rat liver. Net flux and unidirectional fluxes across the cell membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992, 1103, 239-249.	2.6	10
60	A simple chromatographic assay to discriminate between glyphosate-resistant and susceptible soybean ( <i>Glycine max</i> ) cultivars. <i>European Journal of Agronomy</i> , 2009, 31, 173-176.	4.1	10
61	Feruloyl esterase from <i>Aspergillus clavatus</i> improves xylan hydrolysis of sugarcane bagasse. <i>AIMS Bioengineering</i> , 2016, 4, 1-11.	1.1	9
62	Lignin-induced growth inhibition in soybean exposed to iron oxide nanoparticles. <i>Chemosphere</i> , 2018, 211, 226-234.	8.2	8
63	The known unknowns in lignin biosynthesis and its engineering to improve lignocellulosic saccharification efficiency. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 2497-2515.	4.6	8
64	Cadmium uncouples mitochondrial oxidative phosphorylation and induces oxidative cellular stress in soybean roots. <i>Environmental Science and Pollution Research</i> , 2021, 28, 67711-67723.	5.3	8
65	Effects of fatty acids on carbohydrates and lipids of canola seeds during germination. <i>Brazilian Archives of Biology and Technology</i> , 1998, 41, 315-319.	0.5	7
66	L-DOPA and Dopamine in Plant Metabolism. <i>Signaling and Communication in Plants</i> , 2020, , 141-167.	0.7	7
67	Transport, metabolism and distribution space of octanoate in the perfused rat liver. , 1997, 15, 69-80.		6
68	Feruloyl esterase activity and its role in regulating the feruloylation of maize cell walls. <i>Plant Physiology and Biochemistry</i> , 2020, 156, 49-54.	5.8	6
69	Benzoxazolin-2(3H)-one inhibits soybean growth and alters the monomeric composition of lignin. <i>Plant Signaling and Behavior</i> , 2015, 10, e989059.	2.4	5
70	Acyl-homoserine Lactone from <i>Saccharum Æ— officinarum</i> with Stereochemistry-Dependent Growth Regulatory Activity. <i>Journal of Natural Products</i> , 2016, 79, 1316-1321.	3.0	5
71	Comparative effects of L-DOPA and velvet bean seed extract on soybean lignification. <i>Plant Signaling and Behavior</i> , 2018, 13, e1451705.	2.4	5
72	Entacapone improves saccharification without affecting lignin and maize growth: An in silico, in vitro, and in vivo approach. <i>Plant Physiology and Biochemistry</i> , 2020, 151, 421-428.	5.8	5

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73	Inhibition of Maize Caffeate 3-O-Methyltransferase by Nitecapone as a Possible Approach to Reduce Lignocellulosic Biomass Recalcitrance. <i>Plant Molecular Biology Reporter</i> , 2021, 39, 179-191.	1.8	5
74	The photosensitizer azure A disrupts mitochondrial bioenergetics through intrinsic and photodynamic effects. <i>Toxicology</i> , 2021, 455, 152766.	4.2	5
75	Consumption of ferulic and p-hydroxybenzoic acids by soybean root tips. <i>Brazilian Archives of Biology and Technology</i> , 2000, 43, 281-284.	0.5	4
76	Benzoxazolin-2-(3H)-one reduces photosynthetic activity and chlorophyll fluorescence in soybean. <i>Photosynthetica</i> , 2017, 55, 386-390.	1.7	4
77	Naringin inhibits the <i>Zea mays</i> coniferyl aldehyde dehydrogenase: an in silico and in vitro approach. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2020, 29, 484-493.	1.7	4
78	Growth and root lignification of susceptible and glyphosate-resistant soybean. <i>Acta Scientiarum - Agronomy</i> , 2011, 33, .	0.6	2
79	Phenolic Compounds in Plants: Implications for Bioenergy. , 2017, , 39-52.		2
80	<i>Calophyllum brasiliense</i> Cambess: An alternative and promising source of shikimic acid. <i>Sustainable Chemistry and Pharmacy</i> , 2019, 14, 100188.	3.3	2
81	Inhibiting tricin biosynthesis improves maize lignocellulose saccharification. <i>Plant Physiology and Biochemistry</i> , 2022, 178, 12-19.	5.8	2
82	<i>p</i> -Methoxycinnamic acid disturbs cellular respiration and increases the lignification of <i>Euphorbia heterophylla</i> roots. <i>Plant Biosystems</i> , 2023, 157, 12-23.	1.6	2
83	EFFECTS OF CALCIUM ON LIGNIFICATION RELATED PARAMETERS IN SODIUM CHLORIDE-STRESSED SOYBEAN ROOTS. <i>Journal of Plant Nutrition</i> , 2012, 35, 1657-1670.	1.9	1
84	The photodynamic and intrinsic effects of Azure B on mitochondrial bioenergetics and the consequences of its intrinsic effects on hepatic energy metabolism. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 35, 102446.	2.6	1
85	Sustainable production of succinic acid and 3-hydroxypropionic acid from renewable feedstocks. , 2022, , 367-386.		1
86	Ferulic acid depletion by cultured soybean seedlings under action of glucose and methionine. <i>Brazilian Archives of Biology and Technology</i> , 2000, 43, 515-518.	0.5	0
87	Root growth and lignification of glyphosate susceptible and resistant soybean at low temperatures. <i>Semina: Ciências Agrárias</i> , 2013, 34, 509-516.	0.3	0
88	Bromoacetic acid inhibits pyruvate orthophosphate dikinase and reduces photosynthetic activity in maize. <i>Acta Physiologiae Plantarum</i> , 2021, 43, 1.	2.1	0
89	Treating maize plants with benzohydrazide increases saccharification of lignocellulose: A non-transgenic approach to improve cellulosic ethanol production. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	0
90	Bioassays on Plants. , 2009, , 399-428.		0

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91	Chromatographic determination of shikimate for identification of conventional soybean and glyphosate resistant soybean. Bioscience Journal, 2020, 36, .	0.4	0