JoaquÃ-n J Salas

List of Publications by Year
in descending order

133 papers	4,113 citations	136950 32 h-index	149698 56 g-index
134 all docs	134 docs citations	134 times ranked	4323 citing authors

#	Article	IF	Citations
1	High-oleic sunflower seed oil. , 2022, , 109-124.		1
2	Metabolism and accumulation of hydroxylated fatty acids by castor (Ricinus comunis) seed microsomes. Plant Physiology and Biochemistry, 2022, 170, 266-274.	5.8	1
3	Vitamin E prevents lipid peroxidation and iron accumulation in PLA2G6-Associated Neurodegeneration. Neurobiology of Disease, 2022, 165, 105649.	4.4	23
4	The Sunflower WRINKLED1 Transcription Factor Regulates Fatty Acid Biosynthesis Genes through an AW Box Binding Sequence with a Particular Base Bias. Plants, 2022, 11, 972.	3.5	5
5	Characterization and impact of sunflower plastidial octanoyltransferases (Helianthus annuus L.) on oil composition. Journal of Plant Physiology, 2022, 274, 153730.	3.5	0
6	Genome-Wide Mapping of Histone H3 Lysine 4 Trimethylation (H3K4me3) and Its Involvement in Fatty Acid Biosynthesis in Sunflower Developing Seeds. Plants, 2021, 10, 706.	3.5	10
7	The Mitochondrial PHB Complex Determines Lipid Composition and Interacts With the Endoplasmic Reticulum to Regulate Ageing. Frontiers in Physiology, 2021, 12, 696275.	2.8	5
8	Sunflower (Helianthus annuus) fatty acid synthase complex: Î²-Ketoacyl-[acyl carrier protein] reductase genes. Plant Physiology and Biochemistry, 2021, 166, 689-699.	5.8	10
9	Lipid profiling and oil properties of Camelina sativa seeds engineered to enhance the production of saturated and omega-7 fatty acids. Industrial Crops and Products, 2021, 170, 113765.	5.2	8
10	High stearic sunflower oil: Latest advances and applications. OCL - Oilseeds and Fats, Crops and Lipids, 2021, 28, 35.	1.4	9
11	Characterization of Helianthus annuus Lipoic Acid Biosynthesis: The Mitochondrial Octanoyltransferase and Lipoyl Synthase Enzyme System. Frontiers in Plant Science, 2021, 12, 781917.	3.6	4
12	Characterization and function of a sunflower (Helianthus annuus L.) Class II acyl-CoA-binding protein. Plant Science, 2020, 300, 110630.	3.6	6
13	Characterization of the acyl-ACP thioesterases from Koelreuteria paniculata reveals a new type of FatB thioesterase. Heliyon, 2020, 6, e05237.	3.2	4
14	Functional Characterization of Lysophosphatidylcholine: Acyl-CoA Acyltransferase Genes From Sunflower (Helianthus annuus L.). Frontiers in Plant Science, 2020, 11, 403.	3.6	9
15	Impact of sunflower (Helianthus annuus L.) plastidial lipoyl synthases genes expression in glycerolipids composition of transgenic Arabidopsis plants. Scientific Reports, 2020, 10, 3749.	3.3	7
16	Agrobacterium-Mediated Transient Gene Expression in Developing Ricinus communis Seeds: A First Step in Making the Castor Oil Plant a Chemical Biofactory. Frontiers in Plant Science, 2019, 10, 1410.	3.6	6
17	Lipidomic Analysis of Plastidial Octanoyltransferase Mutants of Arabidopsis thaliana. Metabolites, 2019, 9, 209.	2.9	7
18	Shifting sowing of camelina from spring to autumn enhances the oil quality for bio-based applications in response to temperature and seed carbon stock. Industrial Crops and Products, 2019, 137, 66-73.	5.2	48

#	Article	IF	Citations
19	Functional characterization and structural modelling of Helianthus annuus (sunflower) ketoacyl-CoA synthases and their role in seed oil composition. Planta, 2019, 249, 1823-1836.	3.2	14
20	Pantothenate Rescues Iron Accumulation in Pantothenate Kinase-Associated Neurodegeneration Depending on the Type of Mutation. Molecular Neurobiology, 2019, 56, 3638-3656.	4.0	36
21	Characterization of different ozonized sunflower oils I. Chemical changes during ozonization. Grasas Y Aceites, 2019, 70, 329.	0.9	7
22	Characterization of different ozonized sunflower oils II. Triacylglycerol condensation and physical properties. Grasas Y Aceites, 2019, 70, 330.	0.9	1
23	Molecular and biochemical characterization of the sunflower (Helianthus annuus L.) cytosolic and plastidial enolases in relation to seed development. Plant Science, 2018, 272, 117-130.	3.6	12
24	Autophagic flux is required for the synthesis of triacylglycerols and ribosomal protein turnover in Chlamydomonas. Journal of Experimental Botany, 2018, 69, 1355-1367.	4.8	82
25	Intracellular cholesterol accumulation and coenzyme Q10 deficiency in Familial Hypercholesterolemia. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3697-3713.	3.8	20
26	New Insights Into Sunflower (Helianthus annuus L.) FatA and FatB Thioesterases, Their Regulation, Structure and Distribution. Frontiers in Plant Science, 2018, 9, 1496.	3.6	18
27	Characterization of Sunflower Stearinâ€Based Confectionary Fats in Bulk and in Compound Coatings. JAOCS, Journal of the American Oil Chemists' Society, 2018, 95, 1139-1150.	1.9	9
28	New insights in the composition of wax and sterol esters in common and mutant sunflower oils revealed by ESI-MS/MS. Food Chemistry, 2018, 269, 70-79.	8.2	19
29	Tailoring the composition of novel wax esters in the seeds of transgenic <i>Camelina sativa</i> through systematic metabolic engineering. Plant Biotechnology Journal, 2017, 15, 837-849.	8.3	28
30	Characterization of Xanthoceras sorbifolium Bunge seeds: Lipids, proteins and saponins content. Industrial Crops and Products, 2017, 109, 192-198.	5.2	46
31	Temperature effect on triacylglycerol species in seed oil from high stearic sunflower lines with different genetic backgrounds. Journal of the Science of Food and Agriculture, 2016, 96, 4367-4376.	3.5	11
32	Molecular and biochemical characterization of the OLE-1 high-oleic castor seed (Ricinus communis L.) mutant. Planta, 2016, 244, 245-258.	3.2	17
33	Acyl carrier proteins from sunflower (Helianthus annuus L.) seeds and their influence on FatA and FatB acyl-ACP thioesterase activities. Planta, 2016, 244, 479-490.	3.2	21
34	Changes in chloroplast lipid contents and chloroplast ultrastructure in Sulla carnosa and Sulla coronaria leaves under salt stress. Journal of Plant Physiology, 2016, 198, 32-38.	3.5	61
35	Molecular cloning and characterization of the genes encoding a microsomal oleate Î”12 desaturase (CsFAD2) and linoleate Î”15 desaturase (CsFAD3) from Camelina sativa. Industrial Crops and Products, 2016, 89, 405-415.	5.2	27
36	Sunflower HaGPAT9-1 is the predominant GPAT during seed development. Plant Science, 2016, 252, 42-52.	3.6	30

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37	Sunflower (Helianthus annuus) fatty acid synthase complex: Î²-hydroxyacyl-[acyl carrier protein] dehydratase genes. Planta, 2016, 243, 397-410.	3.2	18
38	Characterization of a small acyl-CoA-binding protein (ACBP) from Helianthus annuus L. and its binding affinities. Plant Physiology and Biochemistry, 2016, 102, 141-150.	5.8	24
39	Effect of the distribution of saturated fatty acids in the melting and crystallization profiles of high-oleic high-stearic oils. Grasas Y Aceites, 2016, 67, e149.	0.9	4
40	Food Uses of Sunflower Oils. , 2015, , 441-464.		16
41	Cloning, heterologous expression and biochemical characterization of plastidial sn-glycerol-3-phosphate acyltransferase from Helianthus annuus. Phytochemistry, 2015, 111, 27-36.	2.9	16
42	Sunflower (Helianthus annuus) fatty acid synthase complex: enoyl-[acyl carrier protein]-reductase genes. Planta, 2015, 241, 43-56.	3.2	17
43	Characterization of soluble acyl-ACP desaturases from Camelina sativa, Macadamia tetraphylla and Dolichandra unguis-cati. Journal of Plant Physiology, 2015, 178, 35-42.	3.5	19
44	Content of carotenoids, tocopherols, sterols, triterpenic and aliphatic alcohols, and volatile compounds in six walnuts (Juglans regia L.) varieties. Food Chemistry, 2015, 173, 972-978.	8.2	144
45	Effect of solvents on the fractionation of high oleicâ€“high stearic sunflower oil. Food Chemistry, 2015, 172, 710-717.	8.2	14
46	Sunflower (<i>Helianthus annuus</i>) longâ€chain acylâ€coenzyme A synthetases expressed at high levels in developing seeds. Physiologia Plantarum, 2014, 150, 363-373.	5.2	28
47	Effect of a mutagenized acyl-ACP thioesterase FATA allele from sunflower with improved activity in tobacco leaves and Arabidopsis seeds. Planta, 2014, 239, 667-677.	3.2	16
48	Acyl-ACP thioesterases from Camelina sativa: Cloning, enzymatic characterization and implication in seed oil fatty acid composition. Phytochemistry, 2014, 107, 7-15.	2.9	20
49	Minor components of olive oil facilitate the triglyceride clearance from postprandial lipoproteins in a polarity-dependent manner in healthy men. Nutrition Research, 2014, 34, 40-47.	2.9	13
50	Biochemistry of high stearic sunflower, a new source of saturated fats. Progress in Lipid Research, 2014, 55, 30-42.	11.6	31
51	Comparing Sunflower Stearins with Cocoa Butter. , 2013, , 149-161.		0
52	Characterization of the morphological changes and fatty acid profile of developing Camelina sativa seeds. Industrial Crops and Products, 2013, 50, 673-679.	5.2	73
53	Effect of growth temperature on the high stearic and high stearic-high oleic sunflower traits. Crop and Pasture Science, 2013, 64, 18.	1.5	14
54	Changes in acyl-coenzyme A pools in sunflower seeds with modified fatty acid composition. Phytochemistry, 2013, 87, 39-50.	2.9	9

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55	Studies of isothermal crystallisation kinetics of sunflower hard stearin-based confectionery fats. Food Chemistry, 2013, 139, 184-195.	8.2	32
56	Lipid Metabolism in Olive: Biosynthesis of Triacylglycerols and Aroma Components. , 2013, , 97-127.		8
57	A large decrease of cytosolic triosephosphate isomerase in transgenic potato roots affects the distribution of carbon in primary metabolism. Planta, 2012, 236, 1177-1190.	3.2	32
58	Alternatives to tropical fats based on highâ€stearic sunflower oils. Lipid Technology, 2012, 24, 63-65.	0.3	8
59	Evaluation of high oleic-high stearic sunflower hard stearins for cocoa butter equivalent formulation. Food Chemistry, 2012, 134, 1409-1417.	8.2	75
60	Molecular cloning and biochemical characterization of three phosphoglycerate kinase isoforms from developing sunflower (Helianthus annuus L.) seeds. Phytochemistry, 2012, 79, 27-38.	2.9	16
61	Reduced expression of FatA thioesterases in Arabidopsis affects the oil content and fatty acid composition of the seeds. Planta, 2012, 235, 629-639.	3.2	55
62	Characterization of Sphingolipids from Sunflower Seeds with Altered Fatty Acid Composition. Journal of Agricultural and Food Chemistry, 2011, 59, 12486-12492.	5.2	13
63	Proteome Analysis of Cold Acclimation in Sunflower. Journal of Proteome Research, 2011, 10, 2330-2346.	3.7	55
64	Cloning, biochemical characterization and expression of a sunflower (Helianthus annuus L.) hexokinase associated with seed storage compounds accumulation. Journal of Plant Physiology, 2011, 168, 299-308.	3.5	27
65	Sphingolipid base modifying enzymes in sunflower (Helianthus annuus): Cloning and characterization of a C4-hydroxylase gene and a new paralogous Î”8-desaturase gene. Journal of Plant Physiology, 2011, 168, 831-839.	3.5	9
66	Acyl-ACP thioesterases from macadamia (Macadamia tetraphylla) nuts: Cloning, characterization and their impact on oil composition. Plant Physiology and Biochemistry, 2011, 49, 82-87.	5.8	42
67	Dry Fractionation and Crystallization Kinetics of Highâ€Oleic Highâ€Stearic Sunflower Oil. JAOCS, Journal of the American Oil Chemists' Society, 2011, 88, 1511.	1.9	33
68	Production of stearate-rich butters by solvent fractionation of high stearicâ€"high oleic sunflower oil. Food Chemistry, 2011, 124, 450-458.	8.2	50
69	Vegetable oil basestocks for lubricants. Grasas Y Aceites, 2011, 62, 21-28.	0.9	61
70	Prologe: Biodegradable lubricants from vegetable oils. Grasas Y Aceites, 2011, 62, 7.	0.9	0
71	Acyl-ACP thioesterases from castor (Ricinus communis L.): An enzymatic system appropriate for high rates of oil synthesis and accumulation. Phytochemistry, 2010, 71, 860-869.	2.9	53
72	Glycolytic enzymatic activities in developing seeds involved in the differences between standard and low oil content sunflowers (Helianthus annuus L.). Plant Physiology and Biochemistry, 2010, 48, 961-965.	5.8	23

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73	The role of Î²-ketoacyl-acyl carrier protein synthase III in the condensation steps of fatty acid biosynthesis in sunflower. Planta, 2010, 231, 1277-1289.	3.2	27
74	Cloning, biochemical characterisation, tissue localisation and possible post-translational regulatory mechanism of the cytosolic phosphoglucose isomerase from developing sunflower seeds. Planta, 2010, 232, 845-859.	3.2	8
75	The sunflower plastidial Ï‰3-fatty acid desaturase (HaFAD7) contains the signalling determinants required for targeting to, and retention in, the endoplasmic reticulum membrane in yeast but requires co-expressed ferredoxin for activity. Phytochemistry, 2010, 71, 1050-1058.	2.9	9
76	Characterization and partial purification of acyl-CoA:glycerol 3-phosphate acyltransferase from sunflower (Helianthus annuus L.) developing seeds. Plant Physiology and Biochemistry, 2010, 48, 73-80.	5.8	13
77	Phospholipase DÎ± from sunflower (Helianthus annuus): cloning and functional characterization. Journal of Plant Physiology, 2010, 167, 503-511.	3.5	15
78	Current advances in sunflower oil and its applications. Lipid Technology, 2009, 21, 79-82.	0.3	28
79	cDNA cloning, expression levels and gene mapping of photosynthetic and non-photosynthetic ferredoxin genes in sunflower (Helianthus annuus L.). Theoretical and Applied Genetics, 2009, 118, 891-901.	3.6	3
80	Use of metabolic control analysis to give quantitative information on control of lipid biosynthesis in the important oil crop, <i>Elaeis guineensis</i> (oilpalm). New Phytologist, 2009, 184, 330-339.	7.3	38
81	Characterization of glycolytic initial metabolites and enzyme activities in developing sunflower (Helianthus annuus L.) seeds. Phytochemistry, 2009, 70, 1117-1122.	2.9	20
82	Effect of the ferredoxin electron donor on sunflower (Helianthus annuus) desaturases. Plant Physiology and Biochemistry, 2009, 47, 657-662.	5.8	6
83	Influence of Specific Fatty Acids on the Asymmetric Distribution of Saturated Fatty Acids in Sunflower (Helianthus annuus L.) Triacylglycerols. Journal of Agricultural and Food Chemistry, 2009, 57, 1595-1599.	5.2	12
84	Tropical vegetable fats and butters: properties and new alternatives. Oleagineux Corps Gras Lipides, 2009, 16, 254-258.	0.2	19
85	Lipid characterization of a wrinkled sunflower mutant. Phytochemistry, 2008, 69, 684-691.	2.9	5
86	The biochemical characterization of a high-stearic acid sunflower mutant reveals the coordinated regulation of stearoyl-acyl carrier protein desaturases. Plant Physiology and Biochemistry, 2008, 46, 109-116.	5.8	15
87	Dayâ€“Night Variation in Fatty Acids and Lipids Biosynthesis in Sunflower Seeds. Crop Science, 2008, 48, 1952-1957.	1.8	11
88	Characterization of the glycerolipid composition of a high-palmitoleic acid sunflower mutant. European Journal of Lipid Science and Technology, 2007, 109, 591-599.	1.5	13
89	Lipid Characterization of a High-Stearic Sunflower Mutant Displaying a Seed Stearic Acid Gradient. Journal of Agricultural and Food Chemistry, 2006, 54, 3612-3616.	5.2	5
90	Increase of the Stearic Acid Content in High-Oleic Sunflower (Helianthus annuus) Seeds. Journal of Agricultural and Food Chemistry, 2006, 54, 9383-9388.	5.2	22

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91	Volatile Compound Biosynthesis by Green Leaves from anArabidopsis thalianaHydroperoxide Lyase Knockout Mutant. Journal of Agricultural and Food Chemistry, 2006, 54, 8199-8205.	5.2	23
92	Inhibitors of fatty acid biosynthesis in sunflower seeds. Journal of Plant Physiology, 2006, 163, 885-894.	3.5	7
93	Functional characterization ofÂaÂplastidial omega-3 desaturase from sunflower (HelianthusÂannuus) inÂcyanobacteria. Plant Physiology and Biochemistry, 2006, 44, 517-525.	5.8	18
94	Phospholipid molecular profiles in the seed kernel from different sunflower (Helianthus annuus) mutants. Lipids, 2006, 41, 805-811.	1.7	12
95	Accumulation of phospholipids and glycolipids in seed kernels of different sunflower mutants (Helianthus annuus). JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 539-545.	1.9	19
96	Metabolic control analysis reveals an important role for diacylglycerol acyltransferase in olive but not in oil palm lipid accumulation. FEBS Journal, 2005, 272, 5764-5770.	4.7	45
97	Cloning, characterization and structural model of a FatA-type thioesterase from sunflower seeds (Helianthus annuus L.). Planta, 2005, 221, 868-880.	3.2	61
98	Lipid characterization of seed oils from high-palmitic, low-palmitoleic, and very high-stearic acid sunflower lines. Lipids, 2005, 40, 369-374.	1.7	26
99	Very Long Chain Fatty Acid Synthesis in Sunflower Kernels. Journal of Agricultural and Food Chemistry, 2005, 53, 2710-2716.	5.2	29
100	Impact of the Suppression of Lipoxygenase and Hydroperoxide Lyase on the Quality of the Green Odor in Green Leaves. Journal of Agricultural and Food Chemistry, 2005, 53, 1648-1655.	5.2	56
101	Oils from Improved High Stearic Acid Sunflower Seeds. Journal of Agricultural and Food Chemistry, 2005, 53, 5326-5330.	5.2	61
102	The sources of carbon and reducing power for fatty acid synthesis in the heterotrophic plastids of developing sunflower (Helianthus annuus L.) embryos. Journal of Experimental Botany, 2005, 56, 1297-1303.	4.8	46
103	Biochemical characterization of a high-palmitoleic acid Helianthus annuus mutant. Plant Physiology and Biochemistry, 2004, 42, 373-381.	5.8	31
104	Genetic analysis of apomictic wine yeasts. Current Genetics, 2004, 45, 187-196.	1.7	9
105	The determination of the asymmetrical stereochemical distribution of fatty acids in triacylglycerols. Analytical Biochemistry, 2004, 334, 175-182.	2.4	34
106	Characterization of Alcohol Acyltransferase from Olive Fruit. Journal of Agricultural and Food Chemistry, 2004, 52, 3155-3158.	5.2	56
107	Temperature-related non-homogeneous fatty acid desaturation in sunflower (Helianthus annuus L.) seeds. Planta, 2003, 216, 834-840.	3.2	14
108	Sequential one-step extraction and analysis of triacylglycerols and fatty acids in plant tissues. Analytical Biochemistry, 2003, 317, 247-254.	2.4	32

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109	Cloning and expression of fatty acids biosynthesis key enzymes from sunflower (Helianthus annuus L.) in Escherichia coli. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 786, 221-228.	2.3	23
110	Disruption of the FATB Gene in Arabidopsis Demonstrates an Essential Role of Saturated Fatty Acids in Plant Growth. Plant Cell, 2003, 15, 1020-1033.	6.6	276
111	Arabidopsis Genes Involved in Acyl Lipid Metabolism. A 2003 Census of the Candidates, a Study of the Distribution of Expressed Sequence Tags in Organs, and a Web-Based Database. Plant Physiology, 2003, 132, 681-697.	4.8	350
112	Characterization of substrate specificity of plant FatA and FatB acyl-ACP thioesterases. Archives of Biochemistry and Biophysics, 2002, 403, 25-34.	3.0	228
113	Dynamic channelling during de novo fatty acid biosynthesis in Helianthus annuus seeds. Plant Physiology and Biochemistry, 2002, 40, 383-391.	5.8	10
114	Temperature effect on a high stearic acid sunflower mutant. Phytochemistry, 2002, 59, 33-37.	2.9	51
115	Lipoxygenase pathway in olive callus cultures (Olea europaea). Phytochemistry, 2000, 53, 13-19.	2.9	43
116	Enzymatic studies of high stearic acid sunflower seed mutants. Plant Physiology and Biochemistry, 2000, 38, 377-382.	5.8	32
117	Acyl-acyl carrier protein thioesterase activity from sunflower (Helianthus annuus L.) seeds. Planta, 2000, 211, 673-678.	3.2	27
118	Metabolism of Triacylglycerol Species during Seed Germination in Fatty Acid Sunflower (Helianthusannuus) Mutants. Journal of Agricultural and Food Chemistry, 2000, 48, 770-774.	5.2	16
119	Identification of Triacylglycerol Species from High-Saturated Sunflower (Helianthus annuus) Mutants. Journal of Agricultural and Food Chemistry, 2000, 48, 764-769.	5.2	56
120	Systematic mutagenesis of the fission yeast Srp54 protein. Current Genetics, 1999, 35, 88-102.	1.7	3
121	Enzymatic characterisation of high-palmitic acid sunflower (Helianthus annuus L.) mutants. Planta, 1999, 207, 533-538.	3.2	30
122	Lipoxygenase activity in olive (Olea europaea) fruit. JAOCS, Journal of the American Oil Chemists' Society, 1999, 76, 1163-1168.	1.9	82
123	Lipid Characterization in Vegetative Tissues of High Saturated Fatty Acid Sunflower Mutants. Journal of Agricultural and Food Chemistry, 1999, 47, 78-82.	5.2	19
124	The Decrease of Virgin Olive Oil Flavor Produced by High Malaxation Temperature Is Due to Inactivation of Hydroperoxide Lyase. Journal of Agricultural and Food Chemistry, 1999, 47, 809-812.	5.2	82
125	Alcohol dehydrogenases from olive (Olea europaea) fruit. Phytochemistry, 1998, 48, 35-40.	2.9	55
126	Fatty Acid Composition in Developing High Saturated Sunflower (Helianthus annuus) Seeds:Â Maturation Changes and Temperature Effect. Journal of Agricultural and Food Chemistry, 1998, 46, 3577-3582.	5.2	45

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127	Characterization of polar and nonpolar seed lipid classes from highly saturated fatty acid sunflower mutants. Lipids, 1997, 32, 833-837.	1.7	59
128	Effects of varying media, temperature, and growth rates on the intracellular concentrations of yeast amino acids. Biotechnology Progress, 1995, 11, 386-392.	2.6	29
129	TheSAM2 gene product catalyzes the formation of S-adenosyl-ethionine from ethionine inSaccharomyces cerevisiae. Current Microbiology, 1994, 28, 339-343.	2.2	2
130	Amino Acid Overproduction and Catabolic Pathway Regulation in Saccharomyces cerevisiae. Biotechnology Progress, 1994, 10, 372-376.	2.6	6
131	Regulation of aspartate-derived amino acid biosynthesis in the yeastSaccharomyces cerevisiae. Current Microbiology, 1993, 26, 313-322.	2.2	10
132	Selection of amino-acid overproducer yeast mutants. Current Genetics, 1992, 21, 191-196.	1.7	25
133	Separation of o-phthalaldehyde derivatives of amino acids of the internal pool of yeast by reverse-phase liquid chromatography. Biotechnology Letters, 1991, 5, 209-214.	0.5	15