

Peter E Brodelius

List of Publications by Year in descending order

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103
papers

5,203
citations

61857

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88477

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104
all docs

104
docs citations

104
times ranked

3145
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, properties and applications of self-repairing carbohydrates as smart materials via thermally reversible DA bonds. <i>Polymers for Advanced Technologies</i> , 2021, 32, 1026-1037.	1.6	3
2	Editorial: Artemisinin—From Traditional Chinese Medicine to Artemisinin Combination Therapies; Four Decades of Research on the Biochemistry, Physiology, and Breeding of <i>Artemisia annua</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 594565.	1.7	12
3	Transient expression and purification of β -caryophyllene synthase in <i>Nicotiana benthamiana</i> to produce β -caryophyllene in vitro. <i>PeerJ</i> , 2020, 8, e8904.	0.9	9
4	The Genome of <i>Artemisia annua</i> Provides Insight into the Evolution of Asteraceae Family and Artemisinin Biosynthesis. <i>Molecular Plant</i> , 2018, 11, 776-788.	3.9	205
5	A facile synthesis of molecularly imprinted polymers and their properties as electrochemical sensors for ethyl carbamate analysis. <i>RSC Advances</i> , 2018, 8, 39721-39730.	1.7	11
6	AaMYB1 and its orthologue AtMYB61 affect terpene metabolism and trichome development in <i>Artemisia annua</i> and <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2017, 90, 520-534.	2.8	163
7	Comparison of the interaction between lactoferrin and isomeric drugs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 173, 593-607.	2.0	16
8	β -Mangostin Extraction from the Native Mangosteen (<i>Garcinia mangostana</i> L.) and the Binding Mechanisms of β -Mangostin to HSA or TRF. <i>PLoS ONE</i> , 2016, 11, e0161566.	1.1	28
9	Transient production of artemisinin in <i>Nicotiana benthamiana</i> is boosted by a specific lipid transfer protein from <i>A. annua</i> . <i>Metabolic Engineering</i> , 2016, 38, 159-169.	3.6	84
10	Characterization of a trichome-specific promoter of the aldehyde dehydrogenase 1 (ALDH1) gene in <i>Artemisia annua</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2016, 126, 469-480.	1.2	15
11	Promoting Artemisinin Biosynthesis in <i>Artemisia annua</i> Plants by Substrate Channeling. <i>Molecular Plant</i> , 2016, 9, 946-948.	3.9	24
12	The activity of the artemisinic aldehyde β 11(13) reductase promoter is important for artemisinin yield in different chemotypes of <i>Artemisia annua</i> L.. <i>Plant Molecular Biology</i> , 2015, 88, 325-340.	2.0	45
13	Studies on the expression of linalool synthase using a promoter- β -glucuronidase fusion in transgenic <i>Artemisia annua</i> . <i>Journal of Plant Physiology</i> , 2014, 171, 85-96.	1.6	10
14	Effects of overexpression of AaWRKY1 on artemisinin biosynthesis in transgenic <i>Artemisia annua</i> plants. <i>Phytochemistry</i> , 2014, 102, 89-96.	1.4	83
15	Trichome-specific expression of the amorpho-4,11-diene 12-hydroxylase (<i>cyp71av1</i>) gene, encoding a key enzyme of artemisinin biosynthesis in <i>Artemisia annua</i> , as reported by a promoter-GUS fusion. <i>Plant Molecular Biology</i> , 2013, 81, 119-138.	2.0	72
16	Studies on the Expression of Sesquiterpene Synthases Using Promoter- β -Glucuronidase Fusions in Transgenic <i>Artemisia annua</i> L. <i>PLoS ONE</i> , 2013, 8, e80643.	1.1	19
17	Inducibility of chemical defenses in Norway spruce bark is correlated with unsuccessful mass attacks by the spruce bark beetle. <i>Oecologia</i> , 2012, 170, 183-198.	0.9	120
18	Trichome isolation with and without fixation using laser microdissection and pressure catapulting followed by RNA amplification: Expression of genes of terpene metabolism in apical and sub-apical trichome cells of <i>Artemisia annua</i> L.. <i>Plant Science</i> , 2012, 183, 9-13.	1.7	72

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19	Transient Expression of Hemagglutinin Antigen from Low Pathogenic Avian Influenza A (H7N7) in <i>Nicotiana benthamiana</i> . <i>PLoS ONE</i> , 2012, 7, e33010.	1.1	41
20	Functional expression and characterization of sesquiterpene synthases from <i>Artemisia annua</i> L. using transient expression system in <i>Nicotiana benthamiana</i> . <i>Plant Cell Reports</i> , 2012, 31, 1309-1319.	2.8	21
21	Sesquiterpene coumarins. <i>Phytochemistry Reviews</i> , 2012, 11, 77-96.	3.1	54
22	Relative expression of genes of terpene metabolism in different tissues of <i>Artemisia annua</i> L. <i>BMC Plant Biology</i> , 2011, 11, 45.	1.6	127
23	Trichome-Specific Expression of Amorpho-4,11-Diene Synthase, a Key Enzyme of Artemisinin Biosynthesis in <i>Artemisia annua</i> L., as Reported by a Promoter-GUS Fusion. <i>American Journal of Plant Sciences</i> , 2011, 02, 619-628.	0.3	40
24	Localization of enzymes of artemisinin biosynthesis to the apical cells of glandular secretory trichomes of <i>Artemisia annua</i> L. <i>Phytochemistry</i> , 2009, 70, 1123-1128.	1.4	218
25	Improved conditions for production of recombinant plant sesquiterpene synthases in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2007, 51, 71-79.	0.6	29
26	A launch vector for the production of vaccine antigens in plants. <i>Influenza and Other Respiratory Viruses</i> , 2007, 1, 19-25.	1.5	126
27	Amorpha-4,11-diene synthase: Mechanism and stereochemistry of the enzymatic cyclization of farnesyl diphosphate. <i>Archives of Biochemistry and Biophysics</i> , 2006, 448, 150-155.	1.4	64
28	Cloning, expression, purification and characterization of recombinant (+)-germacrene D synthase from <i>Zingiber officinale</i> . <i>Archives of Biochemistry and Biophysics</i> , 2006, 452, 17-28.	1.4	54
29	Production of the Artemisinin Precursor Amorpho-4,11-diene by Engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 2006, 28, 571-580.	1.1	73
30	Immunolocalization of the saposin-like insert of plant aspartic proteinases exhibiting saposin C activity. Expression in young flower tissues and in barley seeds. <i>Physiologia Plantarum</i> , 2005, 125, 051020045109003-???	2.6	2
31	Expression, purification and characterization of recombinant (E)- β -farnesene synthase from <i>Artemisia annua</i> . <i>Phytochemistry</i> , 2005, 66, 961-967.	1.4	109
32	Expression, purification, and characterization of recombinant amorpha-4,11-diene synthase from <i>Artemisia annua</i> L.. <i>Archives of Biochemistry and Biophysics</i> , 2005, 436, 215-226.	1.4	98
33	Growth behavior in plant cell cultures based on emissions detected by a multisensor array. <i>Biotechnology Progress</i> , 2004, 20, 1245-1250.	1.3	13
34	Fusion of farnesyl diphosphate synthase and δ -aristolochene synthase, a sesquiterpene cyclase involved in capsidiol biosynthesis in <i>Nicotiana tabacum</i> . <i>FEBS Journal</i> , 2002, 269, 3570-3577.	0.2	58
35	Purification, cloning and autoproteolytic processing of an aspartic proteinase from <i>Centaurea calcitrapa</i> . <i>FEBS Journal</i> , 2000, 267, 6824-6831.	0.2	49
36	Effects of sodium orthovanadate on benzophenanthridine alkaloid formation and distribution in cell suspension cultures of <i>Eschscholtzia californica</i> . <i>Plant Physiology and Biochemistry</i> , 2000, 38, 233-241.	2.8	19

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37	Molecular Cloning, Expression, and Characterization of Amorpho-4,11-diene Synthase, a Key Enzyme of Artemisinin Biosynthesis in <i>Artemisia annua</i> L.. <i>Archives of Biochemistry and Biophysics</i> , 2000, 381, 173-180.	1.4	257
38	Processing, Activity, and Inhibition of Recombinant Cyprosin, an Aspartic Proteinase from Cardoon (<i>Cynara cardunculus</i>). <i>Journal of Biological Chemistry</i> , 1999, 274, 16685-16693.	1.6	56
39	Title is missing!. <i>Biotechnology Letters</i> , 1999, 21, 49-55.	1.1	17
40	Cloning, Expression, and Characterization of epi-Cedrol Synthase, a Sesquiterpene Cyclase from <i>Artemisia annua</i> L. <i>Archives of Biochemistry and Biophysics</i> , 1999, 369, 213-222.	1.4	117
41	Kinetin-induced caffeic acid O-methyltransferases in cell suspension cultures of <i>Vanilla planifolia</i> Andr. and isolation of caffeic acid O-methyltransferase cDNAs. <i>Plant Physiology and Biochemistry</i> , 1998, 36, 779-788.	2.8	14
42	Degradation of Caseins from Milk of Different Species by Extracts of <i>Centaurea calcitrapa</i> . <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 3760-3765.	2.4	30
43	A phosphorus-31 nuclear magnetic resonance study of elicitor-mediated metabolic changes in <i>Catharanthus roseus</i> suspension cultures. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 1997, 33, 301-305.	0.9	2
44	Elicitation of Cultivated Plant Cells as a Tool in Biotechnology and Basic Biochemistry. <i>Advances in Molecular and Cell Biology</i> , 1996, 15, 319-340.	0.1	8
45	Plant Aspartic Proteinases from <i>Cynara Cardunculus</i> Spp. <i>Flavescens</i> Cv. Cardoon; Nucleotide Sequence of a cDNA Encoding Cyprosin and its Organ-Specific Expression. <i>Advances in Experimental Medicine and Biology</i> , 1995, 362, 367-372.	0.8	3
46	Isolation and characterization of a cDNA from flowers of <i>Cynara cardunculus</i> encoding cyprosin (an) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 <i>Biology</i> , 1994, 24, 733-741.	2.0	81
47	Phenylpropanoid metabolism in <i>Vanilla planifolia</i> Andr. (V) high performance liquid chromatographic analysis of phenolic glycosides and aglycones in developing fruits. <i>Phytochemical Analysis</i> , 1994, 5, 27-31.	1.2	21
48	Tissue-specific expression of multiple forms of cyprosin (aspartic proteinase) in flowers of <i>Cynara cardunculus</i> . <i>Physiologia Plantarum</i> , 1994, 92, 645-653.	2.6	43
49	Tissue-specific expression of multiple forms of cyprosin (aspartic proteinase) in flowers of <i>Cynara cardunculus</i> . <i>Physiologia Plantarum</i> , 1994, 92, 645-653.	2.6	7
50	Proteases from cell suspension cultures of <i>Cynara cardunculus</i> . <i>Phytochemistry</i> , 1993, 33, 1323-1326.	1.4	11
51	Increasing secondary metabolite production in plant-cell culture by redirecting transport. <i>Trends in Biotechnology</i> , 1993, 11, 30-36.	4.9	62
52	Pathogenesis-related protein b1" in plants and in cell suspension cultures of <i>Nicotiana glutinosa</i> <i>Nicotiana debneyi</i> and an amphidiploid cross (<i>N. glutinosa</i> x <i>N. debneyi</i>). <i>Physiologia Plantarum</i> , 1992, 85, 1-8.	2.6	1
53	Phenylpropanoid Metabolism in Suspension Cultures of <i>Vanilla planifolia</i> Andr. : IV. Induction of Vanillic Acid Formation. <i>Plant Physiology</i> , 1992, 99, 256-262.	2.3	56
54	Pathogenesis-related protein b1" in plants and in cell suspension cultures of <i>Nicotiana glutinosa</i> , <i>Nicotiana debneyi</i> and an amphidiploid cross (<i>N. glutinosa</i> x <i>N. debneyi</i>). <i>Physiologia Plantarum</i> , 1992, 85, 1-8.	2.6	0

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55	Enzyme assays. <i>Current Opinion in Biotechnology</i> , 1991, 2, 23-29.	3.3	2
56	Calcium and phosphate effects on growth and alkaloid production in <i>Coffea arabica</i> : Experimental results and mathematical model. <i>Biotechnology and Bioengineering</i> , 1991, 37, 859-868.	1.7	55
57	Elicitor-induced hydroxycinnamoyl-CoA:tyramine hydroxycinnamoyltransferase in plant cell suspension cultures. <i>Physiologia Plantarum</i> , 1990, 78, 414-420.	2.6	56
58	Plant cell culture using a novel bioreactor: the magnetically stabilized fluidized bed. <i>Biotechnology Progress</i> , 1990, 6, 452-457.	1.3	24
59	Phenylpropanoid Metabolism in Suspension Cultures of <i>Vanilla planifolia</i> Andr.. <i>Plant Physiology</i> , 1990, 94, 102-108.	2.3	67
60	Phenylpropanoid Metabolism in Suspension Cultures of <i>Vanilla planifolia</i> Andr.. <i>Plant Physiology</i> , 1990, 94, 95-101.	2.3	87
61	Structural studies of digitoxin and related cardenolides by two-dimensional NMR. <i>Canadian Journal of Chemistry</i> , 1990, 68, 272-277.	0.6	21
62	Transport and Accumulation of Secondary Metabolites. <i>Current Plant Science and Biotechnology in Agriculture</i> , 1990, , 567-576.	0.0	4
63	Elicitor-induced hydroxycinnamoyl-CoA:tyramine hydroxycinnamoyltransferase in plant cell suspension cultures. <i>Physiologia Plantarum</i> , 1990, 78, 414-420.	2.6	10
64	Dynamics of benzophenanthridine alkaloid production in suspension cultures of <i>Eschscholtzia californica</i> after treatment with a yeast elicitor. <i>Phytochemistry</i> , 1989, 28, 1101-1104.	1.4	53
65	Elicitor-induced tyrosine decarboxylase in berberine-synthesizing suspension cultures of <i>Thalictrum rugosum</i> . <i>FEBS Journal</i> , 1988, 170, 661-666.	0.2	38
66	Continuous production of somatomedin C with immobilized transformed yeast cells. <i>Applied Microbiology and Biotechnology</i> , 1988, 28, 215.	1.7	10
67	Permeabilization of cultivated plant cells by electroporation for release of intracellularly stored secondary products. <i>Plant Cell Reports</i> , 1988, 7, 186-188.	2.8	63
68	Permeabilization of plant cells for release of intracellularly stored products: viability studies. <i>Applied Microbiology and Biotechnology</i> , 1988, 27, 561-566.	1.7	78
69	Elicitor-Induced L-Tyrosine Decarboxylase from Plant Cell Suspension Cultures. <i>Plant Physiology</i> , 1988, 88, 46-51.	2.3	45
70	Elicitor-Induced L-Tyrosine Decarboxylase from Plant Cell Suspension Cultures. <i>Plant Physiology</i> , 1988, 88, 52-55.	2.3	33
71	Stress-Induced Secondary Metabolism in Plant Cell Cultures. , 1988, , 195-209.		7
72	[19] Entrapment of microbial and plant cells in beaded polymers. <i>Methods in Enzymology</i> , 1987, 135, 222-230.	0.4	15

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73	[46] Nuclear magnetic resonance studies of immobilized cells. <i>Methods in Enzymology</i> , 1987, 135, 512-528.	0.4	22
74	Immobilization of plant protoplasts: Viability studies. <i>Plant Cell Reports</i> , 1985, 4, 23-27.	2.8	20
75	The potential role of immobilization in plant cell biotechnology. <i>Trends in Biotechnology</i> , 1985, 3, 280-285.	4.9	73
76	Immobilised plant cells: Respiration and oxygen transfer. <i>Journal of Chemical Technology and Biotechnology</i> , 1985, 35, 198-204.	0.2	34
77	A phosphorus-31 nuclear magnetic resonance study of phosphate uptake and storage in cultured <i>Catharanthus roseus</i> and <i>Daucus carota</i> plant cells. <i>Journal of Biological Chemistry</i> , 1985, 260, 3556-60.	1.6	51
78	Immobilized Viable Plant Cells. <i>Annals of the New York Academy of Sciences</i> , 1984, 434, 382-393.	1.8	26
79	Noninvasive 31P NMR Studies of the Metabolism of Suspended and Immobilized Plant Cells. <i>Annals of the New York Academy of Sciences</i> , 1984, 434, 496-500.	1.8	14
80	An in vivo 31P NMR comparison of freely suspended and immobilized <i>Catharanthus roseus</i> plant cells. <i>Journal of Biotechnology</i> , 1984, 1, 159-170.	1.9	39
81	High-performance Liquid Chromatographic Analysis of Analogous Amino and Oxo Acids for the Determination of Amino Acid Oxidase and Transaminase Activities.. <i>Acta Chemica Scandinavica</i> , 1984, 38b, 219-223.	0.7	2
82	A general method for the immobilization of cells with preserved viability. <i>European Journal of Applied Microbiology and Biotechnology</i> , 1983, 17, 319-326.	1.3	147
83	Permeabilization of immobilized plant cells, resulting in release of intracellularly stored products with preserved cell viability. <i>European Journal of Applied Microbiology and Biotechnology</i> , 1983, 17, 275-280.	1.3	127
84	Production of Biochemicals with Immobilized Plant Cells: Possibilities and Problems. <i>Annals of the New York Academy of Sciences</i> , 1983, 413, 383-393.	1.8	29
85	Production of Î±-keto acids with alginate-entrapped whole cells of the yeast <i>Trigonopsis variabilis</i> . <i>Applied Biochemistry and Biotechnology</i> , 1982, 7, 47-49.	1.4	8
86	Production of Î±-keto acids: 2. Immobilized whole cells of <i>Providencia</i> sp. PCM 1298 containing l-amino acid oxidase. <i>Enzyme and Microbial Technology</i> , 1982, 4, 409-413.	1.6	44
87	Immobilised plant cells: General aspects. <i>Journal of Chemical Technology and Biotechnology</i> , 1982, 32, 330-337.	0.2	21
88	Enzyme activities of the primary and secondary metabolism of simultaneously permeabilized and immobilized plant cells. <i>Analytical Biochemistry</i> , 1981, 116, 462-470.	1.1	75
89	Production of Î±-keto acids Part I. Immobilized cells of <i>Trigonopsis variabilis</i> containing D-amino acid oxidase. <i>Applied Biochemistry and Biotechnology</i> , 1981, 6, 293-307.	1.4	79
90	Entrapment of plant cells in different matrices. <i>FEBS Letters</i> , 1980, 122, 312-316.	1.3	151

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91	Studies of bovine liver glutamate dehydrogenase by analytical affinity chromatography on immobilized AMP analogs. Archives of Biochemistry and Biophysics, 1979, 194, 449-456.	1.4	9
92	Immobilized plant cells for the production and transportation of natural products. FEBS Letters, 1979, 103, 93-97.	1.3	263
93	The synthesis of 8-(6-aminoethyl)-amino-GMP and its applications as a general ligand in affinity chromatography. Archives of Biochemistry and Biophysics, 1978, 188, 228-231.	1.4	9
94	Guanosine Nucleotide Analogues as General Ligands in Affinity Chromatography. , 1978, , 445-447.		1
95	General ligand affinity chromatography: N ⁶ -(6-aminoethyl) 3 ^{â€²} ,5 ^{â€²} -ADP sepharose as an affinity adsorbent for the CoA-dependent enzyme, succinate thiokinase. FEBS Letters, 1976, 70, 261-266.	1.3	12
96	Affinity Chromatography and Binding Studies on Immobilized Adenosine 5'-Monophosphate and Adenosine 2',5'-Bisphosphate of Nicotinamide Nucleotide Transhydrogenase from Pseudomonas aeruginosa. FEBS Journal, 1976, 66, 467-475.	0.2	25
97	Determination of dissociation constants for binary dehydrogenase-coenzyme complexes by (Bio)affinity chromatography on an immobilized AMP-analogue. Analytical Biochemistry, 1976, 72, 629-636.	1.1	30
98	The Synthesis of Three AMP-Analogues: N ⁶ -(6-Aminoethyl)-adenosine 5'-Monophosphate, N ⁶ -(6-Aminoethyl)-adenosine 2',5'-Bisphosphate, and N ⁶ -(6-Aminoethyl)-adenosine 3',5'-Bisphosphate and Their Application as General Ligands in Biospecific Affinity Chromatography. FEBS Journal, 1974, 47, 81-89.	0.2	100
99	The Determination of Dissociation Constants by Affinity Chromatography on an Immobilized Adenosine Monophosphate Analogue. Biochemical Society Transactions, 1974, 2, 1308-1310.	1.6	9
100	Separation of the isoenzymes of lactate dehydrogenase by affinity chromatography using an immobilized AMP-analogue. FEBS Letters, 1973, 35, 223-226.	1.3	60
101	The Utilization of Immobilised Substrate/Product in Affinity Chromatography. A Model Study Using alpha-Chymotrypsin.. Acta Chemica Scandinavica, 1973, 27, 2634-2638.	0.7	10
102	Affinity chromatography of enzymes on an AMP-analogue: Specific elution of dehydrogenases from a general ligand. FEBS Letters, 1972, 25, 234-238.	1.3	67
103	Utilization of plant cell cultures for production of biochemicals. Hereditas, 0, 103, 73-81.	0.5	6