Peer M. Schenk

List of Publications by Citations

200 papers	15,002 citations	58 h-index	120 g-index
206 ext. papers	17,688 ext. citations	5.6 avg, IF	6.81 L-index

#	Paper	IF	Citations
200	Second Generation Biofuels: High-Efficiency Microalgae for Biodiesel Production. *Bioenergy Research*, **2008**, 1, 20-43	3.1	1644
199	Coordinated plant defense responses in Arabidopsis revealed by microarray analysis. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 11655-60	11.5	1159
198	Antagonistic interaction between abscisic acid and jasmonate-ethylene signaling pathways modulates defense gene expression and disease resistance in Arabidopsis. *Plant Cell*, **2004**, 16, 3460-79	11.6	849
197	MYC2 differentially modulates diverse jasmonate-dependent functions in Arabidopsis. *Plant Cell*, **2007**, 19, 2225-45	11.6	722
196	High Lipid Induction in Microalgae for Biodiesel Production. *Energies*, **2012**, 5, 1532-1553	3.1	601
195	Repressor- and activator-type ethylene response factors functioning in jasmonate signaling and disease resistance identified via a genome-wide screen of Arabidopsis transcription factor gene expression. *Plant Physiology*, **2005**, 139, 949-59	6.6	448
194	Microalgal biofactories: a promising approach towards sustainable omega-3 fatty acid production. *Microbial Cell Factories*, **2012**, 11, 96	6.4	339
193	Global Plant Stress Signaling: Reactive Oxygen Species at the Cross-Road. *Frontiers in Plant Science*, **2016**, 7, 187	6.2	330
192	Inner Plant Values: Diversity, Colonization and Benefits from Endophytic Bacteria. *Frontiers in Microbiology*, **2017**, 8, 2552	5.7	283
191	Improved photobiological H2 production in engineered green algal cells. *Journal of Biological Chemistry*, **2005**, 280, 34170-7	5.4	274
190	Engineering photosynthetic light capture: impacts on improved solar energy to biomass conversion. *Plant Biotechnology Journal*, **2007**, 5, 802-14	11.6	265
189	Emerging microbial biocontrol strategies for plant pathogens. *Plant Science*, **2018**, 267, 102-111	5.3	258
188	The mediator complex subunit PFT1 is a key regulator of jasmonate-dependent defense in Arabidopsis. *Plant Cell*, **2009**, 21, 2237-52	11.6	246
187	Plants can use protein as a nitrogen source without assistance from other organisms. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 4524-9	11.5	244
186	The Fusarium mycotoxin deoxynivalenol elicits hydrogen peroxide production, programmed cell death and defence responses in wheat. *Molecular Plant Pathology*, **2008**, 9, 435-45	5.7	209
185	Heterotrimeric G proteins facilitate Arabidopsis resistance to necrotrophic pathogens and are involved in jasmonate signaling. *Plant Physiology*, **2006**, 140, 210-20	6.6	182
184	Pathogen-responsive expression of a putative ATP-binding cassette transporter gene conferring resistance to the diterpenoid sclareol is regulated by multiple defense signaling pathways in Arabidopsis. *Plant Physiology*, **2003**, 133, 1272-84	6.6	177

183	MEDIATOR25 acts as an integrative hub for the regulation of jasmonate-responsive gene expression in Arabidopsis. *Plant Physiology*, **2012**, 160, 541-55	6.6	171
182	Towards sustainable sources for omega-3 fatty acids production. *Current Opinion in Biotechnology*, **2014**, 26, 14-8	11.4	153
181	Unraveling plant-microbe interactions: can multi-species transcriptomics help?. *Trends in Biotechnology*, **2012**, 30, 177-84	15.1	152
180	Linking Jasmonic Acid Signaling, Root Exudates, and Rhizosphere Microbiomes. *Molecular Plant-Microbe Interactions*, **2015**, 28, 1049-58	3.6	151
179	A comparative study: the impact of different lipid extraction methods on current microalgal lipid research. *Microbial Cell Factories*, **2014**, 13, 14	6.4	149
178	Systemic gene expression in Arabidopsis during an incompatible interaction with Alternaria brassicicola. *Plant Physiology*, **2003**, 132, 999-1010	6.6	149
177	Microbiome-Mediated Stress Resistance in Plants. *Trends in Plant Science*, **2020**, 25, 733-743	13.1	129
176	Comparison of Microalgae Cultivation in Photobioreactor, Open Raceway Pond, and a Two-Stage Hybrid System. *Frontiers in Energy Research*, **2016**, 4,	3.8	129
175	Isolation and evaluation of oil-producing microalgae from subtropical coastal and brackish waters. *PLoS ONE*, **2012**, 7, e40751	3.7	124
174	Activation of the jasmonic acid plant defence pathway alters the composition of rhizosphere bacterial communities. *PLoS ONE*, **2013**, 8, e56457	3.7	122
173	Heterotrimeric G proteins-mediated resistance to necrotrophic pathogens includes mechanisms independent of salicylic acid-, jasmonic acid/ethylene- and abscisic acid-mediated defense signaling. *Plant Journal*, **2009**, 58, 69-81	6.9	118
172	Transcriptome for photobiological hydrogen production induced by sulfur deprivation in the green alga Chlamydomonas reinhardtii. *Eukaryotic Cell*, **2008**, 7, 1965-79		114
171	Profiling of carotenoids and antioxidant capacity of microalgae from subtropical coastal and brackish waters. *Food Chemistry*, **2014**, 165, 300-6	8.5	110
170	The metabolome of Chlamydomonas reinhardtii following induction of anaerobic H2 production by sulfur depletion. *Journal of Biological Chemistry*, **2009**, 284, 23415-25	5.4	110
169	Progress on lipid extraction from wet algal biomass for biodiesel production. *Microbial Biotechnology*, **2016**, 9, 718-726	6.3	110
168	Microalgae Isolation and Selection for Prospective Biodiesel Production. *Energies*, **2012**, 5, 1835-1849	3.1	108
167	Application of metatranscriptomics to soil environments. *Journal of Microbiological Methods*, **2012**, 91, 246-51	2.8	107
166	Auxin signaling and transport promote susceptibility to the root-infecting fungal pathogen Fusarium oxysporum in Arabidopsis. *Molecular Plant-Microbe Interactions*, **2011**, 24, 733-48	3.6	106

165	Towards the implementation of sustainable biofuel production systems. *Renewable and Sustainable Energy Reviews*, **2019**, 107, 250-263	16.2	105
164	Ethylene response factor 6 is a regulator of reactive oxygen species signaling in Arabidopsis. *PLoS ONE*, **2013**, 8, e70289	3.7	102
163	Critical analysis of current Microalgae dewatering techniques. *Biofuels*, **2013**, 4, 397-407	2	101
162	Using biplots to interpret gene expression patterns in plants. *Bioinformatics*, **2002**, 18, 202-4	7.2	93
161	Plant Microbiome Engineering: Expected Benefits for Improved Crop Growth and Resilience. *Trends in Biotechnology*, **2020**, 38, 1385-1396	15.1	84
160	A biorefinery for Nannochloropsis: Induction, harvesting, and extraction of EPA-rich oil and high-value protein. *Bioresource Technology*, **2017**, 244, 1416-1424	11	83
159	Isolation and analysis of mRNA from environmental microbial communities. *Journal of Microbiological Methods*, **2008**, 75, 172-6	2.8	82
158	Methyl jasmonate induced gene expression in wheat delays symptom development by the crown rot pathogen Fusarium pseudograminearum. *Physiological and Molecular Plant Pathology*, **2005**, 67, 171-179	2.6	79
157	Diverse roles of the Mediator complex in plants. *Seminars in Cell and Developmental Biology*, **2011**, 22, 741-8	7.5	74
156	The SEN1 gene of Arabidopsis is regulated by signals that link plant defence responses and senescence. *Plant Physiology and Biochemistry*, **2005**, 43, 997-1005	5.4	73
155	Biodiversity impacts of bioenergy production: Microalgae vs. first generation biofuels. *Renewable and Sustainable Energy Reviews*, **2017**, 74, 1131-1146	16.2	72
154	A MYB gene from wheat (Triticum aestivum L.) is up-regulated during salt and drought stresses and differentially regulated between salt-tolerant and sensitive genotypes. *Plant Cell Reports*, **2010**, 29, 835-44	5.1	72
153	Salicylic acid mediates resistance to the vascular wilt pathogen Fusarium oxysporum in the model host Arabidopsis thaliana. *Australasian Plant Pathology*, **2006**, 35, 581	1.4	71
152	Selection and adaptation of microalgae to growth in 100% unfiltered coal-fired flue gas. *Bioresource Technology*, **2017**, 233, 271-283	11	69
151	Culture-Independent Molecular Tools for Soil and Rhizosphere Microbiology. *Diversity*, **2013**, 5, 581-612	2.5	69
150	Promoters of orthologous Glycine max and Lotus japonicus nodulation autoregulation genes interchangeably drive phloem-specific expression in transgenic plants. *Molecular Plant-Microbe Interactions*, **2007**, 20, 769-80	3.6	69
149	Tiny Microbes, Big Yields: enhancing food crop production with biological solutions. *Microbial Biotechnology*, **2017**, 10, 999-1003	6.3	68
148	Effects of jasmonic acid signalling on the wheat microbiome differ between body sites. *Scientific Reports*, **2017**, 7, 41766	4.9	66

147	High protein- and high lipid-producing microalgae from northern australia as potential feedstock for animal feed and biodiesel. *Frontiers in Bioengineering and Biotechnology*, **2015**, 3, 53	5.8	65
146	Root defense analysis against Fusarium oxysporum reveals new regulators to confer resistance. *Scientific Reports*, **2014**, 4, 5584	4.9	64
145	Comparative proteomic analysis of Rhodosporidium toruloides during lipid accumulation. *Yeast*, **2009**, 26, 553-66	3.4	62
144	Gene expression analysis of the wheat response to infection by Fusarium pseudograminearum. *Physiological and Molecular Plant Pathology*, **2008**, 73, 40-47	2.6	62
143	Flotation of marine microalgae: effect of algal hydrophobicity. *Bioresource Technology*, **2012**, 121, 471-4	11	58
142	Integrated biodiesel and biogas production from microalgae: Towards a sustainable closed loop through nutrient recycling. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 1137-1148	16.2	57
141	Promoters for pregenomic RNA of banana streak badnavirus are active for transgene expression in monocot and dicot plants. *Plant Molecular Biology*, **2001**, 47, 399-412	4.6	57
140	Phylogenetic and molecular analysis of hydrogen-producing green algae. *Journal of Experimental Botany*, **2009**, 60, 1691-702	7	53
139	UV-C-mediated lipid induction and settling, a step change towards economical microalgal biodiesel production. *Green Chemistry*, **2014**, 16, 3539-3548	10	52
138	Effect of drying, storage temperature and air exposure on astaxanthin stability from Haematococcus pluvialis. *Food Research International*, **2015**, 74, 231-236	7	51
137	DNA is taken up by root hairs and pollen, and stimulates root and pollen tube growth. *Plant Physiology*, **2010**, 153, 799-805	6.6	51
136	Perspectives on metabolic engineering for increased lipid contents in microalgae. *Biofuels*, **2012**, 3, 71-86		50
135	Gene expression profiling of astaxanthin and fatty acid pathways in Haematococcus pluvialis in response to different LED lighting conditions. *Bioresource Technology*, **2018**, 250, 591-602	11	50
134	UV-induced DNA damage promotes resistance to the biotrophic pathogen Hyaloperonospora parasitica in Arabidopsis. *Plant Physiology*, **2008**, 148, 1021-31	6.6	49
133	Plant Defense by VOC-Induced Microbial Priming. *Trends in Plant Science*, **2019**, 24, 187-189	13.1	48
132	A promoter from sugarcane bacilliform badnavirus drives transgene expression in banana and other monocot and dicot plants. *Plant Molecular Biology*, **1999**, 39, 1221-30	4.6	48
131	Effects of long chain fatty acid synthesis and associated gene expression in microalga Tetraselmis sp. *Marine Drugs*, **2014**, 12, 3381-98	6	46
130	Pavlova lutheri is a high-level producer of phytosterols. *Algal Research*, **2015**, 10, 210-217	5	46

129	The metabolome of Chlamydomonas reinhardtii following induction of anaerobic H2 production by sulfur depletion.. *Journal of Biological Chemistry*, **2009**, 284, 35996	5.4	46
128	Mixed microalgae consortia growth under higher concentration of CO from unfiltered coal fired flue gas: Fatty acid profiling and biodiesel production. *Journal of Photochemistry and Photobiology B: Biology*, **2018**, 179, 126-133	6.7	45
127	LED power efficiency of biomass, fatty acid, and carotenoid production in Nannochloropsis microalgae. *Bioresource Technology*, **2018**, 252, 118-126	11	45
126	Nitrogen affects cluster root formation and expression of putative peptide transporters. *Journal of Experimental Botany*, **2009**, 60, 2665-76	7	45
125	Evidence for the plant recruitment of beneficial microbes to suppress soil-borne pathogens. *New Phytologist*, **2021**, 229, 2873-2885	9.8	45
124	Effective harvesting of low surface-hydrophobicity microalgae by froth flotation. *Bioresource Technology*, **2014**, 159, 437-41	11	41
123	The proteome analysis of oleaginous yeast Lipomyces starkeyi. *FEMS Yeast Research*, **2011**, 11, 42-51	3.1	40
122	Jasmonic acid signalling and the plant holobiont. *Current Opinion in Microbiology*, **2017**, 37, 42-47	7.9	39
121	An Ecological Loop: Host Microbiomes across Multitrophic Interactions. *Trends in Ecology and Evolution*, **2019**, 34, 1118-1130	10.9	39
120	New feed sources key to ambitious climate targets. *Carbon Balance and Management*, **2015**, 10, 26	3.6	39
119	Comparison of astaxanthin accumulation and biosynthesis gene expression of three Haematococcus pluvialis strains upon salinity stress. *Journal of Applied Phycology*, **2015**, 27, 1853-1860	3.2	37
118	Growth and lipid accumulation of microalgae from fluctuating brackish and sea water locations in South East Queensland-Australia. *Frontiers in Plant Science*, **2015**, 6, 359	6.2	37
117	Identification of Soil Bacterial Isolates Suppressing Different spp. and Promoting Plant Growth. *Frontiers in Plant Science*, **2018**, 9, 1502	6.2	36
116	Strategic tillage in conservation agricultural systems of north-eastern Australia: why, where, when and how?. *Environmental Science and Pollution Research*, **2018**, 25, 1000-1015	5.1	35
115	Plant growth in Arabidopsis is assisted by compost soil-derived microbial communities. *Frontiers in Plant Science*, **2013**, 4, 235	6.2	35
114	Development of an environmental functional gene microarray for soil microbial communities. *Applied and Environmental Microbiology*, **2010**, 76, 7161-70	4.8	34
113	pGFPGUSPlus, a new binary vector for gene expression studies and optimising transformation systems in plants. *Biotechnology Letters*, **2007**, 29, 1793-6	3	33
112	A Protocol for the Fluorometric Quantification of mGFP5-ER and sGFP(S65T) in Transgenic Plants. *Plant Molecular Biology Reporter*, **1999**, 17, 385-395	1.7	33

111	Soil bacterial diffusible and volatile organic compounds inhibit Phytophthora capsici and promote plant growth. *Science of the Total Environment*, **2019**, 692, 267-280	10.2	32
110	Changes in the soil quality attributes of continuous no-till farming systems following a strategic tillage. *Soil Research*, **2015**, 53, 263	1.8	32
109	Peroxisomal polyhydroxyalkanoate biosynthesis is a promising strategy for bioplastic production in high biomass crops. *Plant Biotechnology Journal*, **2011**, 9, 958-69	11.6	32
108	Phylogenetic and transcriptional analysis of a strictosidine synthase-like gene family in Arabidopsis thaliana reveals involvement in plant defence responses. *Plant Biology*, **2009**, 11, 105-17	3.7	32
107	DNA microarrays: new tools in the analysis of plant defence responses. *Molecular Plant Pathology*, **2001**, 2, 177-85	5.7	32
106	Induced carotenoid accumulation in Dunaliella salina and Tetraselmis suecica by plant hormones and UV-C radiation. *Applied Microbiology and Biotechnology*, **2015**, 99, 9407-16	5.7	30
105	The ability of plants to produce strigolactones affects rhizosphere community composition of fungi but not bacteria. *Rhizosphere*, **2019**, 9, 18-26	3.5	30
104	Proteomic analysis of protein methylation in the yeast Saccharomyces cerevisiae. *Journal of Proteomics*, **2015**, 114, 226-33	3.9	27
103	Strategic tillage on a Grey Vertosol after fifteen years of no-till management had no short-term impact on soil properties and agronomic productivity. *Geoderma*, **2016**, 267, 146-155	6.7	27
102	Assessment of Transient Gene Expression in Plant Tissues Using the Green Fluorescent Protein as a Reference. *Plant Molecular Biology Reporter*, **1998**, 16, 313-322	1.7	27
101	Massively parallel sequencing and analysis of expressed sequence tags in a successful invasive plant. *Annals of Botany*, **2010**, 106, 1009-17	4.1	26
100	Dissolved air flotation and centrifugation as methods for oil recovery from ruptured microalgal cells. *Bioresource Technology*, **2016**, 218, 428-35	11	26
99	One-time strategic tillage does not cause major impacts on soil microbial properties in a no-till Calcisol. *Soil and Tillage Research*, **2016**, 158, 91-99	6.5	25
98	Evaluation of microalgae and cyanobacteria as potential sources of antimicrobial compounds. *Saudi Pharmaceutical Journal*, **2020**, 28, 1834-1841	4.4	25
97	UV-C radiation increases sterol production in the microalga Pavlova lutheri. *Phytochemistry*, **2017**, 139, 25-32	4	24
96	Biogas production coupled to repeat microalgae cultivation using a closed nutrient loop. *Bioresource Technology*, **2018**, 263, 625-630	11	24
95	Phaeodactylum tricornutum microalgae as a rich source of omega-3 oil: Progress in lipid induction techniques towards industry adoption. *Food Chemistry*, **2019**, 297, 124937	8.5	23
94	Plant defence inducers rapidly influence the diversity of bacterial communities in a potting mix. *Applied Soil Ecology*, **2014**, 84, 1-5	5	23

93	Flotation separation of marine microalgae from aqueous medium. *Separation and Purification Technology*, **2015**, 156, 636-641	8.3	23
92	Cloning and sequence analysis of RNA-2 of a mechanically transmitted UK isolate of barley mild mosaic bymovirus (BaMMV). *Virus Research*, **1995**, 37, 99-111	6.4	23
91	RNA-Seq and metabolic flux analysis of Tetraselmis sp. M8 during nitrogen starvation reveals a two-stage lipid accumulation mechanism. *Bioresource Technology*, **2017**, 244, 1281-1293	11	22
90	Rapid induction of omega-3 fatty acids (EPA) in Nannochloropsis sp. by UV-C radiation. *Biotechnology and Bioengineering*, **2015**, 112, 1243-9	4.9	22
89	Blue light enhances astaxanthin biosynthesis metabolism and extraction efficiency in Haematococcus pluvialis by inducing haematocyst germination. *Algal Research*, **2018**, 35, 215-222	5	22
88	Global mapping of cost-effective microalgal biofuel production areas with minimal environmental impact. *GCB Bioenergy*, **2019**, 11, 914-929	5.6	21
87	Development of marker genes for jasmonic acid signaling in shoots and roots of wheat. *Plant Signaling and Behavior*, **2016**, 11, e1176654	2.5	21
86	The Role of Transcription Factors in Wheat Under Different Abiotic Stresses **2013**,		19
85	MEDIATOR18 and MEDIATOR20 confer susceptibility to Fusarium oxysporum in Arabidopsis thaliana. *PLoS ONE*, **2017**, 12, e0176022	3.7	19
84	Heavy metal bioremediation of coal-fired flue gas using microalgae under different CO concentrations. *Journal of Environmental Management*, **2019**, 241, 243-250	7.9	18
83	Isolation of High-Lipid Tetraselmis suecica Strains Following Repeated UV-C Mutagenesis, FACS, and High-Throughput Growth Selection. *Bioenergy Research*, **2015**, 8, 750-759	3.1	18
82	An Optimized Transient Dual Luciferase Assay for Quantifying MicroRNA Directed Repression of Targeted Sequences. *Frontiers in Plant Science*, **2017**, 8, 1631	6.2	18
81	Molecular defense responses in roots and the rhizosphere against Fusarium oxysporum. *Plant Signaling and Behavior*, **2014**, 9, e977710	2.5	18
80	Suppression of Phytophthora capsici infection and promotion of tomato growth by soil bacteria. *Rhizosphere*, **2019**, 9, 72-75	3.5	18
79	The Gene Expression Is Mediated by Diverse Signals that Link Biotic and Abiotic Stress Factors with ROS and Can Be a Useful Molecular Marker for Oxidative Stress. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	16
78	UV-C mediated rapidcarotenoid induction and settling performance of Dunaliellasalina and Haematococcus pluvialis. *Biotechnology and Bioengineering*, **2015**, 112, 2106-14	4.9	16
77	Impact of osmotic shock pre-treatment on microalgae lipid extraction and subsequent methane production. *Bioresource Technology Reports*, **2019**, 7, 100214	4.1	15
76	Occasional tillage has no effect on soil microbial biomass, activity and composition in Vertisols under long-term no-till. *Biology and Fertility of Soils*, **2016**, 52, 191-202	6.1	15

75	Comparative Effects of Biomass Pre-Treatments for Direct and Indirect Transesterification to Enhance Microalgal Lipid Recovery. *Frontiers in Energy Research*, **2014**, 2,	3.8	15
74	The Arabidopsis mutant iop1 exhibits induced over-expression of the plant defensin gene PDF1.2 and enhanced pathogen resistance. *Molecular Plant Pathology*, **2003**, 4, 479-86	5.7	15
73	Reproductive biology of Corymbia citriodora subsp. variegata and effective pollination across its native range in Queensland, Australia. *Southern Forests*, **2009**, 71, 125-132	0.6	14
72	Microalgae selection and improvement as oil crops: GM vs non-GM strain engineering. *AIMS Bioengineering*, **2017**, 4, 151-161	3.4	14
71	Short-term impact of an occasional tillage on microbial communities in a Vertosol after 43 years of no-tillage or conventional tillage. *European Journal of Soil Biology*, **2016**, 74, 32-38	2.9	14
70	Transcriptome-wide analysis of Chlorella reveals auxin-induced carotenogenesis pathway in green microalgae. *Algal Research*, **2019**, 37, 320-335	5	14
69	Rapid Lipid Induction in Chlorella sp. by UV-C Radiation. *Bioenergy Research*, **2015**, 8, 1824-1830	3.1	13
68	Lipid extraction from wet Chaetoceros muelleri culture and evaluation of remaining defatted biomass. *Algal Research*, **2016**, 20, 205-212	5	13
67	High flux water purification using aluminium hydroxide hydrate gels. *Scientific Reports*, **2017**, 7, 17437	4.9	13
66	Soil amendments with ethylene precursor alleviate negative impacts of salinity on soil microbial properties and productivity. *Scientific Reports*, **2019**, 9, 6892	4.9	12
65	Current research and perspectives of microalgal biofuels in Australia. *Biofuels*, **2012**, 3, 427-439	2	12
64	Efficient Harvesting of Microalgae via Optimized Chitosan-Mediated Flocculation. *Global Challenges* , **2019**, 3, 1800038	4.3	12
63	Mixotrophic cultivation of Scenedesmus dimorphus in sugarcane bagasse hydrolysate. *Environmental Progress and Sustainable Energy*, **2020**, 39, e13334	2.5	12
62	Strategic tillage increased the relative abundance of Acidobacteria but did not impact on overall soil microbial properties of a 19-year no-till Solonetz. *Biology and Fertility of Soils*, **2016**, 52, 1021-1035	6.1	11
61	Efficient targeting of polyhydroxybutyrate biosynthetic enzymes to plant peroxisomes requires more than three amino acids in the carboxyl-terminal signal. *Journal of Plant Physiology*, **2010**, 167, 329-32	3.6	11
60	Phylogenetic and molecular analysis of the ribulose-1,5-bisphosphate carboxylase small subunit gene family in banana. *Journal of Experimental Botany*, **2007**, 58, 2685-97	7	11
59	Movement of barley mild mosaic and barley yellow mosaic viruses in leaves and roots of barley. *Annals of Applied Biology*, **1995**, 126, 291-305	2.6	11
58	Cold and dark treatments induce omega-3 fatty acid and carotenoid production in Nannochloropsis oceanica. *Algal Research*, **2020**, 51, 102059	5	11

57	Growth-promoting bacteria double eicosapentaenoic acid yield in microalgae. *Bioresource Technology*, **2020**, 316, 123916	11	11
56	Microalgal biofuel production at national scales: Reducing conflicts with agricultural lands and biodiversity within countries. *Energy*, **2021**, 215, 119033	7.9	11
55	Phytomicrobiome for promoting sustainable agriculture and food security: Opportunities, challenges, and solutions. *Microbiological Research*, **2021**, 248, 126763	5.3	11
54	Plant mediator: mediating the jasmonate response. *Plant Signaling and Behavior*, **2010**, 5, 718-20	2.5	10
53	Identification of plant defence genes in canola using Arabidopsis cDNA microarrays. *Plant Biology*, **2008**, 10, 539-47	3.7	10
52	Arbuscular mycorrhizae and rhizobacteria improve growth, nutritional status and essential oil production in Ocimum basilicum and Satureja hortensis. *Industrial Crops and Products*, **2021**, 160, 113163	5.9	10
51	Assessing the fertilizing potential of microalgal digestates using the marine diatom Chaetoceros muelleri. *Algal Research*, **2019**, 41, 101534	5	9
50	Reduced peroxisomal citrate synthase activity increases substrate availability for polyhydroxyalkanoate biosynthesis in plant peroxisomes. *Plant Biotechnology Journal*, **2014**, 12, 1044-52	11.6	9
49	Rhizosphere Metatranscriptomics: Challenges and Opportunities **2013**, 1137-1144		9
48	Functional promoter analysis using an approach based on an in vitro evolution strategy. *BioTechniques*, **2005**, 38, 209-10, 212, 214-6	2.5	9
47	Transcription profiling of the isoflavone phenylpropanoid pathway in soybean in response to Bradyrhizobium japonicum inoculation. *Functional Plant Biology*, **2010**, 38, 13-24	2.7	8
46	Chromosome-Scale Genome Assembly of Two Australian Nannochloropsis oceanica Isolates Exhibiting Superior Lipid Characteristics. *Microbiology Resource Announcements*, **2019**, 8,	1.3	8
45	Enhanced triacylglyceride extraction from microalgae using free nitrous acid pre-treatment. *Applied Energy*, **2015**, 154, 183-189	10.7	7
44	Algal Biorefinery: Sustainable Production of Biofuels and Aquaculture Feed?. *Cellular Origin and Life in Extreme Habitats*, **2012**, 21-41		7
43	Sample processing and cDNA preparation for microbial metatranscriptomics in complex soil communities. *Methods in Enzymology*, **2013**, 531, 251-67	1.7	7
42	Functional metabolomics as a tool to analyze Mediator function and structure in plants. *PLoS ONE*, **2017**, 12, e0179640	3.7	7
41	Freeing land from biofuel production through microalgal cultivation in the Neotropical region. *Environmental Research Letters*, **2020**, 15, 094094	6.2	7
40	Effective Harvesting of Microalgae Using Mushroom Chitosan: A Pilot-Scale Study. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 771	5.8	7

39	Osmotic shock pre-treatment of Chaetoceros muelleri wet biomass enhanced solvent-free lipid extraction and biogas production. *Algal Research*, **2021**, 54, 102177	5	7
38	Development of High-Level Omega-3 Eicosapentaenoic Acid (EPA) Production from Phaeodactylum tricornutum. *Journal of Phycology*, **2021**, 57, 258-268	3	7
37	Sugarcane bagasse as a novel low/no cost organic carbon source for growth of Chlorella sp. BR2. *Biofuels*, **2019**, 1-7	2	6
36	Investigating Cellular Responses During Photohydrogen Production by the Marine Microalga Tetraselmis subcordiformis by Quantitative Proteome Analysis. *Applied Biochemistry and Biotechnology*, **2015**, 177, 649-61	3.2	6
35	Activation of the salicylic acid signalling pathway in wheat had no significant short-term impact on the diversity of root-associated microbiomes. *Pedobiologia*, **2018**, 70, 6-11	1.7	6
34	The race for highly productive microalgae strains. *Biofuels*, **2010**, 1, 835-837	2	6
33	Introducing the hydrate gel membrane technology for filtration of mine tailings. *Minerals Engineering*, **2019**, 135, 1-8	4.9	6
32	Genomics in Induced Resistance31-64		6
31	Nutraceuticals from Microalgae **2015**, 673-684		5
30	Analysis of the first complete genome sequence of an Australian tomato spotted wilt virus isolate. *Australasian Plant Pathology*, **2016**, 45, 509-512	1.4	4
29	New host record of a Candidatus Phytoplasma asteris-related strain infecting peach in India. *Australasian Plant Disease Notes*, **2014**, 9, 1	0.8	4
28	Association of two barley yellow mosaic virus (RNA 2) encoded proteins with cytoplasmic inclusion bodies revealed by immunogold localisation. *Protoplasma*, **1993**, 173, 113-122	3.4	4
27	Development of a Phaeodactylum tricornutum biorefinery to sustainably produce omega-3 fatty acids and protein. *Journal of Cleaner Production*, **2021**, 300, 126839	10.3	4
26	Complete Nucleotide Sequence of an Australian Isolate of Turnip mosaic virus before and after Seven Years of Serial Passaging. *Genome Announcements*, **2016**, 4,		4
25	Microalgae as a Sustainable Source of Nutraceuticals **2017**, 1-19		3
24	Suppression of Mediator Subunit-Encoding Confers Broad Resistance Against DNA and RNA Viruses While Is Required for Virus Defense. *Frontiers in Plant Science*, **2020**, 11, 162	6.2	3
23	Thinking outside of the box: potential of zooplankton for microalgae harvesting. *Biofuels*, **2013**, 4, 263-266		3
22	Identification of functional sequences in the pregenomic RNA promoter of the Banana streak virus Cavendish strain (BSV-Cav). *Virus Research*, **2005**, 108, 177-86	6.4	3

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