Inna Khozin-Goldberg

List of Publications by Year
in descending order

99	5,779	61857	76769
papers	citations	43 h-index	74 g-index

101	101	101	5134
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effects of microalgae-based fertilization of wheat on yield, soil microbiome and nitrogen oxides emissions. Science of the Total Environment, 2022, 806, 151320.	3.9	10
2	Chromochloris zofingiensis (Chlorophyceae) Divides by Consecutive Multiple Fission Cell-Cycle under Batch and Continuous Cultivation. Biology, 2021, 10, 157.	1.3	5
3	Translating the diatom-grazer defense mechanism to antiparasitic treatment for monogenean infection in guppies. Algal Research, 2021, 58, 102426.	2.4	1
4	Multiplexed Genome Editing via an RNA Polymerase II Promoter-Driven sgRNA Array in the Diatom Phaeodactylum tricornutum: Insights Into the Role of StLDP. Frontiers in Plant Science, 2021, 12, 784780.	1.7	7
5	Resilience to Freezing in the Vegetative Cells of the Microalga Lobosphaera incisa (Trebouxiophyceae,) Tj ETQq1 1 0.784314 rgBT /Ov	1.0	3
6	DGLA from the Microalga Lobosphaera Incsa P127 Modulates Inflammatory Response, Inhibits iNOS Expression and Alleviates NO Secretion in RAW264.7 Murine Macrophages. Nutrients, 2020, 12, 2892.	1.7	11
7	Lipidome Remodeling and Autophagic Respose in the Arachidonic-Acid-Rich Microalga Lobosphaera incisa Under Nitrogen and Phosphorous Deprivation. Frontiers in Plant Science, 2020, 11, 614846.	1.7	22
8	High Resolution Proteome of Lipid Droplets Isolated from the Pennate Diatom Phaeodactylum tricornutum (Bacillariophyceae) Strain pt4 provides mechanistic insights into complex intracellular coordination during nitrogen deprivation. Journal of Phycology, 2020, 56, 1642-1663.	1.0	15
9	Dietary Supplementation with Omega-6 LC-PUFA-Rich Microalgae Regulates Mucosal Immune Response and Promotes Microbial Diversity in the Zebrafish Gut. Biology, 2020, 9, 119.	1.3	22
10	Nitrogen Deprivation-Induced Production of Volatile Organic Compounds in the Arachidonic-Acid-Accumulating Microalga Lobosphaera incisa Underpins Their Role as ROS Scavengers and Chemical Messengers. Frontiers in Marine Science, 2020, 7, .	1.2	11
11	A Review of Diatom Lipid Droplets. Biology, 2020, 9, 38.	1.3	24
12	Stress-induced changes in the ultrastructure of the photosynthetic apparatus of green microalgae. Protoplasma, 2019, 256, 261-277.	1.0	19
13	Phosphorus starvation and luxury uptake in green microalgae revisited. Algal Research, 2019, 43, 101651.	2.4	71
14	Long-Chain Polyunsaturated Fatty Acids in the Green Microalga Lobosphaera incisa Contribute to Tolerance to Abiotic Stresses. Plant and Cell Physiology, 2019, 60, 1205-1223.	1.5	15
15	Dihomo-Î³-linolenic acid inhibits several key cellular processes associated with atherosclerosis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2538-2550.	1.8	41
16	A novel endogenous selection marker for the diatom Phaeodactylum tricornutum based on a unique mutation in phytoene desaturase 1. Scientific Reports, 2019, 9, 8217.	1.6	13
17	Manipulation of trophic capacities in Haematococcus pluvialis enables low-light mediated growth on glucose and astaxanthin formation in the dark. Algal Research, 2019, 40, 101497.	2.4	18
18	Metabolomic foundation for differential responses of lipid metabolism to nitrogen and phosphorus deprivation in an arachidonic acid-producing green microalga. Plant Science, 2019, 283, 95-115.	1.7	35

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19	The gut mucosal barrier of zebrafish (Danio rerio) responds to the time-restricted delivery of Lobosphaera incisa-enriched diets. Fish and Shellfish Immunology, 2019, 89, 368-377.	1.6	9
20	Metabolic Engineering and Synthetic Biology Approaches to Enhancing Production of Long-Chain Polyunsaturated Fatty Acids in Microalgae. Grand Challenges in Biology and Biotechnology, 2019, , 249-289.	2.4	2
21	DGAT1 from the arachidonic-acid-producing microalga Lobosphaera incisa shows late gene expression under nitrogen starvation and substrate promiscuity in a heterologous system. Journal of Applied Phycology, 2018, 30, 2773-2791.	1.5	5
22	Novel promoters for constitutive and inducible expression of transgenes in the diatom Phaeodactylum tricornutum under varied nitrate availability. Journal of Applied Phycology, 2018, 30, 2763-2772.	1.5	19
23	Dietary Supplementation With Ï‰6 LC-PUFA-Rich Algae Modulates Zebrafish Immune Function and Improves Resistance to Streptococcal Infection. Frontiers in Immunology, 2018, 9, 1960.	2.2	44
24	Arachidonic acid is important for efficient use of light by the microalga Lobosphaera incisa under chilling stress. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 853-868.	1.2	23
25	Improved productivity and oxidative stress tolerance under nitrogen starvation is associated with the ablated Î”5 desaturation in the green microalga Lobosphaera incisa. Algal Research, 2017, 26, 25-38.	2.4	17
26	Dietary arachidonic acid affects immune function and fatty acid composition in cultured rabbitfish Siganus rivulatus. Fish and Shellfish Immunology, 2017, 68, 46-53.	1.6	37
27	Analysis of the lipid body proteome of the oleaginous alga Lobosphaera incisa. BMC Plant Biology, 2017, 17, 98.	1.6	44
28	Salt Induces Features of a Dormancy-Like State in Seeds of Eutrema (Thellungiella) salsugineum, a Halophytic Relative of Arabidopsis. Frontiers in Plant Science, 2016, 7, 1071.	1.7	16
29	Microalgae as a Source for VLC-PUFA Production. Sub-Cellular Biochemistry, 2016, 86, 471-510.	1.0	46
30	Inducible expression of Haematococcus oil globule protein in the diatom Phaeodactylum tricornutum : Association with lipid droplets and enhancement of TAG accumulation under nitrogen starvation. Algal Research, 2016, 18, 321-331.	2.4	30
31	Lipid Metabolism in Microalgae. , 2016, , 413-484.		26
32	Cloning and characterization of a GPAT-like gene from the microalga Lobosphaera incisa (Trebouxiophyceae): overexpression in Chlamydomonas reinhardtii enhances TAG production. Journal of Applied Phycology, 2016, 28, 907-919.	1.5	59
33	Metabolome Analysis Reveals Betaine Lipids as Major Source for Triglyceride Formation, and the Accumulation of Sedoheptulose during Nitrogen-Starvation of Phaeodactylum tricornutum. PLoS ONE, 2016, 11, e0164673.	1.1	70
34	A novel source of dihomoâ€Î³â€linolenic acid: Possibilities and limitations of DGLA production in the highâ€density cultures of the Î”5 desaturaseâ€mutant microalga Lobosphaera incisa. European Journal of Lipid Science and Technology, 2015, 117, 760-766.	1.0	21
35	Sulfite Oxidase Activity Is Essential for Normal Sulfur, Nitrogen and Carbon Metabolism in Tomato Leaves. Plants, 2015, 4, 573-605.	1.6	22
36	The complete mitochondrial genome sequence of the green microalga Lobosphaera (Parietochloris) incisa reveals a new type of palindromic repetitive repeat. BMC Genomics, 2015, 16, 580.	1.2	9

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37	Metabolic engineering toward enhanced LC-PUFA biosynthesis in Nannochloropsis oceanica : Overexpression of endogenous Î”12 desaturase driven by stress-inducible promoter leads to enhanced deposition of polyunsaturated fatty acids in TAG. Algal Research, 2015, 11, 387-398.	2.4	124
38	The role of pyruvate hub enzymes in supplying carbon precursors for fatty acid synthesis in photosynthetic microalgae. Photosynthesis Research, 2015, 125, 407-422.	1.6	52
39	Effects of salinity on flowering, morphology, biomass accumulation and leaf metabolites in an edible halophyte. AoB PLANTS, 2014, 6, plu053-plu053.	1.2	59
40	Impairment in Sulfite Reductase Leads to Early Leaf Senescence in Tomato Plants Â Â. Plant Physiology, 2014, 165, 1505-1520.	2.3	51
41	Downregulation of a putative plastid PDC E1Î± subunit impairs photosynthetic activity and triacylglycerol accumulation in nitrogen-starved photoautotrophic Chlamydomonas reinhardtii. Journal of Experimental Botany, 2014, 65, 6563-6576.	2.4	44
42	Interactive effects of salinity, high light, and nitrogen starvation on fatty acid and carotenoid profiles in Nannochloropsis oceanica CCALA 804. European Journal of Lipid Science and Technology, 2014, 116, 635-644.	1.0	48
43	Origin of Î²-Carotene-Rich Plastoglobuli in Dunaliella bardawil Â Â Â Â. Plant Physiology, 2014, 164, 2139-2156.	2.3	60
44	Development of a Nuclear Transformation System for Oleaginous Green Alga Lobosphaera (Parietochloris) incisa and Genetic Complementation of a Mutant Strain, Deficient in Arachidonic Acid Biosynthesis. PLoS ONE, 2014, 9, e105223.	1.1	29
45	Growth, lipid production and metabolic adjustments in the euryhaline eustigmatophyte Nannochloropsis oceanica CCALA 804 in response to osmotic downshift. Applied Microbiology and Biotechnology, 2013, 97, 8291-8306.	1.7	65
46	Ambient temperature and nutritional stress influence fatty acid composition of structural and fuel lipids in Japanese quail (Coturnix japonica) tissues. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 166, 244-250.	0.8	22
47	Probing the effects of high-light stress on pigment and lipid metabolism in nitrogen-starving microalgae by measuring chlorophyll fluorescence transients: Studies with a Î”5 desaturase mutant of Parietochloris incisa (Chlorophyta, Trebouxiophyceae). Algal Research, 2013, 2, 175-182.	2.4	57
48	High-CO2 tolerance in microalgae: possible mechanisms and implications for biotechnology and bioremediation. Biotechnology Letters, 2013, 35, 1745-1752.	1.1	123
49	The Investment in Scent: Time-Resolved Metabolic Processes in Developing Volatile-Producing Nigella sativa L. Seeds. PLoS ONE, 2013, 8, e73061.	1.1	5
50	Ecotypic Variability in the Metabolic Response of Seeds to Diurnal Hydrationâ€“Dehydration Cycles and its Relationship to Seed Vigor. Plant and Cell Physiology, 2012, 53, 38-52.	1.5	32
51	Cloning, mutagenesis, and characterization of the microalga Parietochloris incisa acetohydroxyacid synthase, and its possible use as an endogenous selection marker. Biotechnology and Bioengineering, 2012, 109, 2340-2348.	1.7	7
52	Dietary supplementation with the microalgae Parietochloris incisa increases survival and stress resistance in guppy (Poecilia reticulata) fry. Aquaculture Nutrition, 2012, 18, 167-180.	1.1	32
53	Unraveling algal lipid metabolism: Recent advances in gene identification. Biochimie, 2011, 93, 91-100.	1.3	136
54	Effect of seawater concentration on the productivity and nutritional value of annual Salicornia and perennial Sarcocornia halophytes as leafy vegetable crops. Scientia Horticulturae, 2011, 128, 189-196.	1.7	169

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55	Cloning and molecular characterization of a novel acylâ€CoA:diacylglycerol acyltransferaseâ€ƒ1â€like gene (PtDGAT1) from the diatom Phaeodactylumâ€ƒtricornutum. FEBS Journal, 2011, 278, 3651-3666.	2.2	92
56	Concerns over the reporting of inconsistent data on fatty acid composition for microalgae of the genus Nannochloropsis (Eustigmatophyceae). Journal of Applied Phycology, 2011, 23, 933-934.	1.5	22
57	Stress-Induced Changes in Optical Properties, Pigment and Fatty Acid Content of Nannochloropsis sp.: Implications for Non-destructive Assay of Total Fatty Acids. Marine Biotechnology, 2011, 13, 527-535.	1.1	81
58	Selection of a DGLA-producing mutant of the microalga Parietochloris incisa: I. Identification of mutation site and expression of VLC-PUFA biosynthesis genes. Applied Microbiology and Biotechnology, 2011, 90, 249-256.	1.7	30
59	The effect of light, salinity, and nitrogen availability on lipid production by Nannochloropsis sp.. Applied Microbiology and Biotechnology, 2011, 90, 1429-1441.	1.7	460
60	LC-PUFA from photosynthetic microalgae: occurrence, biosynthesis, and prospects in biotechnology. Applied Microbiology and Biotechnology, 2011, 91, 905-915.	1.7	169
61	Isolation of a Novel Oil Globule Protein from the Green Alga Haematococcus pluvialis (Chlorophyceae). Lipids, 2011, 46, 851-861.	0.7	99
62	Identification and Characterization of Î”12, Î”6, and Î”5 Desaturases from the Green Microalga Parietochloris incisa. Lipids, 2010, 45, 519-530.	0.7	47
63	COORDINATED CAROTENOID AND LIPID SYNTHESES INDUCED IN PARIETOCHLORIS INCISA (CHLOROPHYTA,) Tj ETQq1 1 0.784314 rgB Journal of Phycology, 2010, 46, 763-772.	1.0	69
64	Short-term dietary supplementation with the microalgaParietochloris incisaenhances stress resistance in guppiesPoecilia reticulata. Aquaculture Research, 2010, 41, 267-277.	0.9	21
65	Searching for Polyunsaturated Fatty Acid-Rich Photosynthetic Microalgae. , 2010, , 201-224.		12
66	Effect of dietary fatty acid composition on fatty acid profiles of polar and neutral lipid tissue fractions in zebra finches, Taeniopygia guttata. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 154, 165-172.	0.8	36
67	Carotenoid-to-chlorophyll ratio as a proxy for assay of total fatty acids and arachidonic acid content in the green microalga Parietochloris incisa. Journal of Applied Phycology, 2009, 21, 361-366.	1.5	62
68	Cloning and Characterization of the âˆ†6 Polyunsaturated Fatty Acid Elongase from the Green Microalga Parietochloris incisa. Lipids, 2009, 44, 545-554.	0.7	28
69	Effects of light intensity and nitrogen starvation on growth, total fatty acids and arachidonic acid in the green microalga Parietochloris incisa. Journal of Applied Phycology, 2008, 20, 245-251.	1.5	293
70	Effects of light and nitrogen starvation on the content and composition of carotenoids of the green microalga Parietochloris incisa. Russian Journal of Plant Physiology, 2008, 55, 455-462.	0.5	68
71	Mode of Action of Fenarimol Against Leishmania Spp.. Journal of Parasitology, 2008, 94, 280-286.	0.3	15
72	Effect of hydrogen peroxide production and the Fenton reaction on membrane composition of Streptococcus pneumoniae. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 590-597.	1.4	48

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73	EFFECT OF NITROGEN STARVATION ON OPTICAL PROPERTIES, PIGMENTS, AND ARACHIDONIC ACID CONTENT OF THE UNICELLULAR GREEN ALGA PARIETOCHLORIS INCISA (TREBOUXIOPHYCEAE,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf		
74	Feeding with arachidonic acid-rich triacylglycerols from the microalga Parietochloris incisa improved recovery of guppies from infection with Tetrahymena sp.. Aquaculture, 2006, 255, 142-150.	1.7	45
75	The effect of phosphate starvation on the lipid and fatty acid composition of the fresh water eustigmatophyte Monodus subterraneus. Phytochemistry, 2006, 67, 696-701.	1.4	384
76	Searching for PUFA-Rich Microalgae. , 2005, , .		8
77	INHIBITION OF ASTAXANTHIN SYNTHESIS UNDER HIGH IRRADIANCE DOES NOT ABOLISH TRIACYLGLYCEROL ACCUMULATION IN THE GREEN ALGA HAEMATOCOCCUS PLUVIALIS (CHLOROPHYCEAE)1. Journal of Phycology, 2005, 41, 819-826.	1.0	92
78	Mobilization of arachidonyl moieties from triacylglycerols into chloroplastic lipids following recovery from nitrogen starvation of the microalga Parietochloris incisa. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1738, 63-71.	1.2	109
79	Differences in Membrane Fluidity and Fatty Acid Composition between Phenotypic Variants of Streptococcus pneumoniae. Journal of Bacteriology, 2004, 186, 4638-4644.	1.0	84
80	Lipophylic Compounds from Euphorbia peplis L. - a Halophytic Plant from the Bulgarian Black Sea Coast. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2003, 58, 783-788.	0.6	6
81	Reutilization of Arachidonyl Moieties of Triacylglycerols in the Microalga Parietochloris Incisa Following Recovery from Nitrogen Starvation. , 2003, , 159-162.		0
82	Biosynthesis of arachidonic acid in the oleaginous microalga Parietochloris incisa (Chlorophyceae): Radiolabeling studies. Lipids, 2002, 37, 209-216.	0.7	58
83	ACCUMULATION OF OLEIC ACID IN HAEMATOCOCCUS PLUVIALIS (CHLOROPHYCEAE) UNDER NITROGEN STARVATION OR HIGH LIGHT IS CORRELATED WITH THAT OF ASTAXANTHIN ESTERS 1. Journal of Phycology, 2002, 38, 325-331.	1.0	237
84	NITROGEN STARVATION INDUCES THE ACCUMULATION OF ARACHIDONIC ACID IN THE FRESHWATER GREEN ALGA PARIETOCHLORIS INCISA (TREBUXIOPHYCEAE)1. Journal of Phycology, 2002, 38, 991-994.	1.0	112
85	BIOSYNTHESIS OF EICOSAPENTAENOIC ACID (EPA) IN THE FRESHWATER EUSTIGMATOPHYTEMONODUS SUBTERRANEUS(EUSTIGMATOPHYCEAE)1. Journal of Phycology, 2002, 38, 745-756.	1.0	60
86	Accumulation of arachidonic acid-rich triacylglycerols in the microalga Parietochloris incisa (Trebuxiophyceae, Chlorophyta). Phytochemistry, 2002, 60, 135-143.	1.4	96
87	Lipid and fatty acid composition of the green oleaginous alga Parietochloris incisa, the richest plant source of arachidonic acid. Phytochemistry, 2002, 60, 497-503.	1.4	342
88	Title is missing!. Journal of Applied Phycology, 2002, 14, 453-460.	1.5	29
89	Isolation and characterization of a novel leaf-inhabiting osmo-, salt-, and alkali-tolerant Yarrowia lipolytica yeast strain. Journal of Basic Microbiology, 2001, 41, 289.	1.8	37
90	The role of triacylglycerol as a reservoir of polyunsaturated fatty acids for the rapid production of chloroplastic lipids in certain microalgae. Biochemical Society Transactions, 2000, 28, 740-743.	1.6	64

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91	Triacylglycerols of the red microalga Porphyridium cruentum can contribute to the biosynthesis of eukaryotic galactolipids. Lipids, 2000, 35, 881-889.	0.7	57
92	Salicylhydroxamic acid inhibits Î”6 desaturation in the microalga Porphyridium cruentum11Part III in the series â€˜Elucidation of the biosynthesis of eicosapentaenoic acid (EPA)â€™.. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1439, 384-394.	1.2	13
93	Elucidation of the Biosynthesis of Eicosapentaenoic Acid in the Microalga Porphyridium cruentum (II.) Tj ETQq1 1 0.784314 rgBT /Ove	2.3	100
94	Fatty acid unsaturation in the red alga Porphyridium cruentum. Is the methylene interrupted nature of polyunsaturated fatty acids an intrinsic property of the desaturases?. Lipids and Lipid Metabolism, 1997, 1344, 59-64.	2.6	31
95	Elucidation of the Biosynthesis of Eicosapentaenoic Acid (EPA) in the Microalga Porphyridium Cruentum. , 1997, , 93-95.		7
96	Effect on Environmental Conditions on the Molecular Species Composition of Galactolipids in the Alga Porphyridium Cruentum. , 1997, , 218-220.		2
97	Biosynthesis of eicosapentaenoic acid in the microalgaPorphyridium cruentum. I: The use of externally supplied fatty acids. Lipids, 1996, 31, 1277-1282.	0.7	46
98	Spectrophotometric Analysis of Carotenoids in Plant Extracts Based on Elimination of Chlorophyll Absorption. Phytochemical Analysis, 1996, 7, 294-299.	1.2	8
99	Differential response of microalgae to the substituted pyridazinone, sandoz 9785, reveal different pathways in the biosynthesis of eicosapentaenoic acid. Phytochemistry, 1996, 42, 1025-1029.	1.4	22