

Supplementary materials

List S1. References collected from the platforms Scopus, SpringerLink, ScienceDirect, Web of Science, and Redalyc: Scientific articles, abstracts, chapter books, and reviews.

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Table S1. Global database

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
Scopus	Frontiers in Microbiology	Martin R.M., Moniruzzaman M., Stark G.F., Gann E.R., Derminio D.S., Wei B., Hellweger F.L., Pinto A., Boyer G.L., Wilhelm S.W.	2020	Episodic Decrease in Temperature Increases mcy Gene Transcription and Cellular Microcystin in Continuous Cultures of <i>Microcystis aeruginosa</i> PCC 7806	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097791928&doi=10.3389%2ffmicb.2020.601864&part-nerID=40&md5=224a4a06a267b734c07fb1c55b351968	10.3389/fmicb.2020.601864	Freshwater	Estados Unidos	Cfa	Yes
Scopus	Ecotoxicology and Environmental Safety	Almeida A.C., Gomes T., Lomba J.A.B., Lillicrap A.	2021	Specific toxicity of azithromycin to the freshwater microalga <i>Raphidocelis subcapitata</i>	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85111260854&doi=10.1016%2fj.ecoenv.2021.112553&part-nerID=40&md5=6da6798f27f23b7b2bf35862e29e9a0b	10.1016/j.ecoenv.2021.112553	Freshwater	Noruega	Dfb	Not
Scopus	Environmental Pollution	Alho L.D.O.G., Souza J.P., Rocha G.S., Mansano A.D.S., Lombardi A.T., Sarmento H., Melão M.G.G.	2020	Photosynthetic, morphological and biochemical biomarkers as tools to investigate copper oxide nanoparticle toxicity to a freshwater chlorophyceae	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086479453&doi=10.1016%2fj.envpol.2020.114856&part-nerID=40&md5=24cef4095d9cbb84d9009fee3a87a946	10.1016/j.envpol.2020.114856	Freshwater	Brasil	Cfa	Not
Scopus	International Journal of Radiation Biology	Hosseini Tafreshi S.A., Aghaie P., Toghyani M.A., Ramazani-Moghaddam-Arani A.	2020	Improvement of ionizing gamma irradiation tolerance of <i>Chlorella vulgaris</i> by pretreatment with polyethylene glycol	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082456095&doi=10.1080%2f09553002.2020.1741717&part-nerID=40&md5=8ccc3d9c6ca714e79b6d78da9a8823ad	10.1080/09553002.2020.1741717	Freshwater	Irán	Cfa	Not
Scopus	Energy, Ecology and Environment	Sarker N.K., Salam P.A.	2020	Design of batch algal cultivation systems and ranking of the design parameters	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079744012&doi=10.1007%2fs40974-020-00149-3&part-nerID=40&md5=96002b0b5a3bd012d3115e92ab782573	10.1007/s40974-020-00149-3	Freshwater	Tailandia	Aw	Not
Scopus	Ecotoxicology and Environmental Safety	Husseini Z.N., Hosseini Tafreshi S.A., Aghaie P., Toghyani M.A.	2020	CaCl ₂ pretreatment improves gamma toxicity tolerance in microalga <i>Chlorella vulgaris</i>	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078659609&doi=10.1016%2fj.ecoenv.2020.110261&part-nerID=40&md5=5d42a07ecfcca9bdbd4d3c30930014cd	10.1016/j.ecoenv.2020.110261	Freshwater	Irán	Cfa	Not
Scopus	International Aquatic Research	Kasan N.A., Hashim F.S., Haris N., Zakaria M.F., Mohamed N.N., Rasdi N.W., Wahid M.E.A., Katakayama T., Takahashi K., Jusoh M.	2020	Isolation of freshwater and marine indigenous microalgae species from terengganu water bodies for potential uses as live feeds in aquaculture industry	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084348438&doi=10.22034%2fIAR%282	10.22034/IAR(20).2020.671730	Marine and Freshwater	Malasia	Af	Not

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
					0%29.2020.671730&part-nerID=40&md5=2060f06c21a7d29e7b7ed84e368ffc82					
Scopus	Science of the Total Environment	Almeida A.C., Gomes T., Habuda-Stanić M., Lomba J.A.B., Romić, Turkalj J.V., Lillicrap A.	2019	Characterization of multiple biomarker responses using flow cytometry to improve environmental hazard assessment with the green microalgae <i>Raphidocelis subcapitata</i>	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067284508&doi=10.1016%2fj.scitotenv.2019.06.124&part-nerID=40&md5=f4dc82f0847a83567cb20dbfa8b0232c	10.1016/j.scitotenv.2019.06.124	Freshwater	Noruega	Dfb	Not
Scopus	Aquatic Ecology	Beecraft L., Watson S.B., Smith R.E.H.	2019	Innate resistance of PSII efficiency to sunlight stress is not an advantage for cyanobacteria compared to eukaryotic phytoplankton	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065397988&doi=10.1007%2fs10452-019-09694-4&part-nerID=40&md5=47cc4e5a26cd953613be540af605818d	10.1007/s10452-019-09694-4	Freshwater	Canadá	Dfb	Yes
Scopus	Ecotoxicology and Environmental Safety	Alho L.D.O.G., Gebara R.C., Paina K.D.A., Sarmiento H., Melão M.D.G.G.	2019	Responses of <i>Raphidocelis subcapitata</i> exposed to Cd and Pb: Mechanisms of toxicity assessed by multiple endpoints	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057813234&doi=10.1016%2fj.ecoenv.2018.11.087&part-nerID=40&md5=04fa37b6d7bbc1527844d405b3cb77f3	10.1016/j.ecoenv.2018.11.087	Freshwater	Brasil	Cfa	Not
Scopus	European Journal of Phycology	Kozik C., Young E.B., Sandgren C.D., Berges J.A.	2019	Cell death in individual freshwater phytoplankton species: relationships with population dynamics and environmental factors	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063578936&doi=10.1080%2f09670262.2018.1563216&part-nerID=40&md5=dff445df7965525c32c94a17e9a3e99a	10.1080/09670262.2018.1563216	Freshwater	Estados Unidos	Dfa	Not
Scopus	Nature Communications	Tamminen M., Betz A., Pereira A.L., Thali M., Matthews B., Suter M.J.-F., Narwani A.	2018	Proteome evolution under non-substitutable resource limitation	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056115041&doi=10.1038%2fs41467-018-07106-z&part-nerID=40&md5=752616ef201cf5e570d1d97a4426d992	10.1038/s41467-018-07106-z	Freshwater	Suiza	Dfb	Not
Scopus	Antonie van Leeuwenhoek, International Journal of General and Molecular	Bell T.A.S., Sen-Kilic E., Felföldi T., Vasas G., Fields M.W., Peyton B.M.	2018	Microbial community changes during a toxic cyanobacterial bloom in an alkaline Hungarian lake	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051279294&doi=10.1007%2fs10482-018-1132-7&part-nerID=40&md5=934e9d3b312d2051529db70230b6444e	10.1007/s10482-018-1132-7	Freshwater	Hungría	Cfa	Not

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
	Microbiology									
Scopus	Journal of Phycology	Hsieh C.-J., Zhan S.H., Liao C.-P., Tang S.-L., Wang L.-C., Watanabe T., Geraldino P.J.L., Liu S.-L.	2018	The effects of contemporary selection and dispersal limitation on the community assembly of acidophilic microalgae	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053401820&doi=10.1111%2fjpy.12771&part-nerID=40&md5=faa728af7ab4bc58033da50bb3e9eefc	10.1111/jpy.12771	Freshwater	Provincia de Taiwán	Cfa	Not
Scopus	Environmental Science and Technology	Xin X., Huang G., An C., Huang C., Weger H., Zhao S., Zhou Y., Rosendahl S.	2018	Insights into the Toxicity of Triclosan to Green Microalga <i>Chlorococcum</i> sp. Using Synchrotron-Based Fourier Transform Infrared Spectromicroscopy: Biophysiological Analyses and Roles of Environmental Factors	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042302618&doi=10.1021%2facs.est.7b05533&part-nerID=40&md5=8105c9b9f8f28e72bbf457ed64fd42b3	10.1021/acs.est.7b05533	Marine and Freshwater	Canadá	Dfb	Not
Scopus	Journal of Plankton Research	Bemal S., Anil A.C.	2018	Effects of salinity on cellular growth and exopolysaccharide production of freshwater <i>Synechococcus</i> strain CCAP1405	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041180325&doi=10.1093%2fplankt%2f-fbx064&part-nerID=40&md5=748ea61a402c52081ef4880fb26abc09	10.1093/plankt/fbx064	Marine and Freshwater	India	Am	Not
Scopus	Journal of Great Lakes Research	Somogyi B., Felföldi T., V.-Balogh K., Boros E., Pálffy K., Vörös L.	2016	The role and composition of winter picoeukaryotic assemblages in shallow Central European great lakes	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006789440&doi=10.1016%2fj.jglr.2016.10.003&part-nerID=40&md5=cb6f63027dc3dd02c59962eb6c7e3551	10.1016/j.jglr.2016.10.003	Freshwater	Hungria	Cfb	Not
Scopus	European Journal of Phycology	Cozza D., Torelli A., Veltri A., Ferrari M., Marieschi M., Cozza R.	2016	Ultrastructural features, chromium content and in situ immunodetection of 5-methylcytosine following Cr (VI) treatment in two strains of <i>Scenedesmus acutus</i> M. (Chlorophyceae) with different chromium sensitivity	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84967138151&doi=10.1080%2f09670262.2016.1157902&part-nerID=40&md5=40e470d1315e59daf960c5bb3983a7cb	10.1080/09670262.2016.1157902	Freshwater	Italia	Cfa	Not
Scopus	Environmental Science and Pollution Research	Piotrowska-Niczyporuk A., Bajguz A., Talarek M., Bralska M., Zambrycka E.	2015	The effect of lead on the growth, content of primary metabolites, and antioxidant response of green alga <i>Acutodesmus obliquus</i> (Chlorophyceae)	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949104146&doi=10.1007%2fs11356-015-5118-y&part-nerID=40&md5=5db8f4015be2feab14df1fa102feb0b1	10.1007/s11356-015-5118-y	Freshwater	Polonia	Dfb	Not

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
Scopus	Journal of Limnology	Han W., Jing Y., Li T.	2015	Compensatory growth in <i>Microcystis aeruginosa</i> after moderate high-temperature exposure	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945548777&doi=10.4081%2fjlimnol.2015.1164&part-nerID=40&md5=0d9de90ccc051466a61a92f99cbd2e09	10.4081/jlimnol.2015.1164	Marine and Freshwater	República Popular China	Cfa	Yes
Scopus	Ecotoxicology and Environmental Safety	Ha M.-H., Contardo-Jara V., Pflugmacher S.	2014	Uptake of the cyanobacterial neurotoxin, anatoxin-a, and alterations in oxidative stress in the submerged aquatic plant Ceratophyllum demersum	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84893181719&doi=10.1016%2fj.ecoenv.2013.12.023&part-nerID=40&md5=a71f059b81b56fdd59d95cf09d45fa28	10.1016/j.ecoenv.2013.12.023	Freshwater	Alemania	Cfb	Not
Scopus	Algal Research	Moll K.M., Gardner R.D., Eustance E.O., Gerlach R., Peyton B.M.	2014	Combining multiple nutrient stresses and bicarbonate addition to promote lipid accumulation in the diatom RGd-1	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84900373140&doi=10.1016%2fj.algal.2014.04.002&part-nerID=40&md5=242cfc7f1042f56116095118b261443b	10.1016/j.algal.2014.04.002	Marine and Freshwater	Estados Unidos	Bsk	Not
Scopus	Chemosphere	Ni L., Acharya K., Hao X., Li S.	2012	Isolation and identification of an anti-algal compound from Artemisia annua and mechanisms of inhibitory effect on algae	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84862176273&doi=10.1016%2fj.chemosphere.2012.05.009&part-nerID=40&md5=1423f78c56a93a68ffda10aa8bcf5a3	10.1016/j.chemosphere.2012.05.009	Freshwater	República Popular China	Cfa	Yes
Scopus	Journal of Phycology	Obertegger U., Camin F., Guella G., Flaim G.	2011	Adaptation of a psychrophilic freshwater dinoflagellate to ultraviolet radiation	https://www.scopus.com/inward/record.uri?eid=2-s2.0-79960714353&doi=10.1111%2fj.1529-8817.2011.01025.x&part-nerID=40&md5=8046fc77fa0c471a4309424a4a5ef04c	10.1111 / j.1529-8817.2011.01025.x	Freshwater	Italia	Dfb	Yes
Scopus	Environmental Microbiology	Vardi A., Eisenstadt D., Murik O., Berman-Frank I., Zohary T., Levine A., Kaplan A.	2007	Synchronization of cell death in a dinoflagellate population is mediated by an excreted thiol protease	https://www.scopus.com/inward/record.uri?eid=2-s2.0-33846040290&doi=10.1111%2fj.1462-2920.2006.01146.x&part-nerID=40&md5=cc9d57de72e7bd76194a012be90a73ea	10.1111/j.1462-2920.2006.01146.x	Freshwater	Israel	Bsh	Not
springer-link	Aquaculture International	Dilek Yalcin	2020	Growth, lipid content, and fatty acid profile of freshwater cyanobacteria Dolichospermum affine (Lemmermann) Wacklin, Hoffmann, & Komárček by using modified nutrient media	http://link.springer.com/article/10.1007/s10499-020-00531-2	https://doi.org/10.1007/s10499-020-00531-2	Freshwater	Turquía	Csa	Not

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
springer-link	BMC Genomics	Changqing LiuXiaoli ShiFan WuMingdong RenGuang GaoQin-glong Wu	2020	Genome analyses provide insights into the evolution and adaptation of the eukaryotic Picophytoplankton Mychonastes homosphaera	http://link.springer.com/article/10.1186/s12864-020-06891-6	https://doi.org/10.1186/s12864-020-06891-6	Freshwater	República Popular China	Cfa	Yes
springer-link	Journal of Applied Phycology	Giseli Swerts RochaChristopher Charles ParrishAna Teresa LombardiMaria da Graça Gama Melão	2018	Biochemical and physiological responses of Selenastrum gracile (Chlorophyceae) acclimated to different phosphorus concentrations	http://link.springer.com/article/10.1007/s10811-018-1418-1	https://doi.org/10.1007/s10811-018-1418-1	Freshwater	Brasil	Cfa	Not
springer-link	Biogeochemistry	Patricia M. GlibertCynthia A. HeilChristopher J. MaddenStephen P. Kelly	2021	Dissolved organic nutrients at the interface of fresh and marine waters: flow regime changes, biogeochemical cascades and picocyanobacterial blooms—the example of Florida Bay, USA	http://link.springer.com/article/10.1007/s10533-021-00760-4	https://doi.org/10.1007/s10533-021-00760-4	Marine and Freshwater	Estados Unidos	Dfa	Not
springer-link	Aquatic Ecology	Fumie KasaiMichael T. Arts	1997	The interactive effects of UV-B radiation and a herbicide on uptake and allocation of carbon in two strains of the green alga Scenedesmus	http://link.springer.com/article/10.1007/BF02493513	https://doi.org/10.1007/BF02493513	Freshwater	Canadá	Dfb	Not
springer-link	Microbial Ecology	Peter SylvanderNorbert HäubnerPauline Snoeijs	2013	The Thiamine Content of Phytoplankton Cells Is Affected by Abiotic Stress and Growth Rate	http://link.springer.com/article/10.1007/s00248-012-0156-1	https://doi.org/10.1007/s00248-012-0156-1	Marine and Freshwater	Estados Unidos	Dfb	Yes
springer-link	Hydrobiology	Simone J. CardosoJoão Carlos NaboutVinicius F. FarjallaPaloma M. LopesReinaldo L. BozelliVera L. M. HuszarFábio Roland	2017	Environmental factors driving phytoplankton taxonomic and functional diversity in Amazonian floodplain lakes	http://link.springer.com/article/10.1007/s10750-017-3244-x	https://doi.org/10.1007/s10750-017-3244-x	Freshwater	Brasil	Af	Not
springer-link	Hydrobiology	Mathias Ahii ChiaMaria do Carm Bittencourt-Oliveira	2021	Allelopathic interactions between phytoplankton species alter toxin production, oxidative response, and nitrogen fixation	http://link.springer.com/article/10.1007/s10750-021-04665-z	https://doi.org/10.1007/s10750-021-04665-z	Freshwater	Estados Unidos	Dfb	Not
springer-link	Journal of Applied Phycology	Yan XiaoShuqing ZhangZhe Li-Xinghua WuShu WangJinsong Guo	2018	Turbulent mixing mediates the photosynthetic activities and biochemical composition of Anabaena: implications for bioengineering	http://link.springer.com/article/10.1007/s10811-018-1465-7	https://doi.org/10.1007/s10811-018-1465-7	Freshwater	República Popular China	Cfa	Not
springer-link	Journal of Applied Phycology	Yan HeQiao-Hong ZhouBi-Yun LiuLong ChengYun TianYong-Yuan ZhangZhen-Bin Wu	2016	Programmed cell death in the cyanobacterium Microcystis aeruginosa induced by allelopathic effect of submerged macrophyte Myriophyllum spicatum in co-culture system	http://link.springer.com/article/10.1007/s10811-016-0814-7	https://doi.org/10.1007/s10811-016-0814-7	Freshwater	República Popular China	Cfa	Yes
springer-link	Environmental Science and Pollution Research	Ye LiangYuqi SuKai OuyangXinglan ChenJiaxin Yang	2017	Effects of microcystin-producing and microcystin-free Microcystis aeruginosa on enzyme activity and nutrient content in the rotifer Brachionus calyciflorus	http://link.springer.com/article/10.1007/s11356-017-8704-3	https://doi.org/10.1007/s11356-017-8704-3	Freshwater	República Popular China	Cfa	Yes

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
springer-link	Chinese Journal of Oceanology and Limnology	Caixia Kang 康晓霞Takahiro KubaAimin Hao 郝敏Yasushi IseriChunjie Li 李春杰Zhenjia Zhang 张震家	2015	Oxidative stress responses of submerged macrophyte <i>Vallisneria asiatica</i> to different concentrations of cyanobacteria	http://link.springer.com/article/10.1007/s00343-015-4084-z	https://doi.org/10.1186/2008-6970-5-7	Freshwater	Japón	Cfa	Not
springer-link	Journal of Applied Phycology	Wenjing WangHong ShenPengling ShiJun ChenLeyi NiPing Xie	2016	Experimental evidence for the role of heterotrophic bacteria in the formation of Microcystis colonies	http://link.springer.com/article/10.1007/s10811-015-0659-5	https://doi.org/10.1007/s10811-015-0659-5	Freshwater	República Popular China	Cfa	Yes
springer-link	Journal of Applied Phycology	Mathias Ahii ChiaPromise Kalu ChimdirimWisdom Sohunago Japhet	2015	Lead induced antioxidant response and phenotypic plasticity of <i>Scenedesmus quadricauda</i> (Turp.) de Brébisson under different nitrogen concentrations	http://link.springer.com/article/10.1007/s10811-014-0312-8	https://doi.org/10.1007/s10811-014-0312-8	Freshwater	Brasil	Aw	Yes
springer-link	Proceedings of the National Academy of Sciences, India Section B: Biological Sciences	M. P. V. V. B. SinghSheo Mohan PrasadVijay Pratap SinghMeenakshi Singh	2015	Antioxidant System Against Active Oxygen Species in Cyanobacterium <i>Aphanothece stagnina</i> : Response to Excess Light Under Cadmium Stress	http://link.springer.com/article/10.1007/s40011-014-0367-y	https://doi.org/10.1007/s40011-014-0367-y	Freshwater	India	Csa	Not
springer-link	Photosynthesis Research	Greg CookAmber TeufelIsha KalraWei LiXin WangJohn Priscu-Rachael Morgan-Kiss	2019	The Antarctic psychrophiles <i>Chlamydomonas</i> spp. UWO241 and ICE-MDV exhibit differential restructuring of photosystem I in response to iron	http://link.springer.com/article/10.1007/s11120-019-00621-0	doi:10.1007/s11120-019-00621-0.	Freshwater	Estados Unidos	Cfa	Not
springer-link	Ecotoxicology	Raquel PradoCarmen RiobooConcepción HerreroPaula Suárez-BreguaÁngeles Cid	2012	Flow cytometric analysis to evaluate physiological alterations in herbicide-exposed <i>Chlamydomonas moewusii</i> cells	http://link.springer.com/article/10.1007/s10646-011-0801-3	https://doi.org/10.1007/s10646-011-0801-3	Freshwater	España	Cfb	Not
springer-link	Journal of Soils and Sediments	Chao ChenXinghua PangYiyao WangMing KongLulu LongMin XuYinlong XiaoJinsong HeGang YangShihuai Deng	2021	Antioxidant responses and microcystins accumulation in <i>Corbicula fluminea</i> following the control of algal blooms using chitosan-modified clays	http://link.springer.com/article/10.1007/s11368-021-03022-w	https://doi.org/10.1007/s11368-021-03022-w	Freshwater	República Popular China	Cfa	Not
springer-link	Journal of Soils and Sediments	Mahbobe GhanbarzadehVahid NiknamNeda SoltaniHasan EbrahimzadehMohammad Hassan Shahavi	2021	Removal of Phenanthrene by some microalga species and study of antioxidative compounds in Nostoc calcicola ISC 89	http://link.springer.com/article/10.1007/s11368-021-03065-z	https://doi.org/10.1007/s11368-021-03065-z	Freshwater	República Popular China	Bsk	Not
springer-link	Journal of Central South University	Yang Wu 吴阳Ying-jun Wang 王 YingYuan-wei Li 李元伟Zhen-ge Du 杜震Ge Zhang-hong Wang 王 洪Ge Shi-huai Deng 董 磊	2018	Effects of single-walled carbon nanotubes on growth and physiological characteristics of <i>Microcystis aeruginosa</i>	http://link.springer.com/article/10.1007/s11771-018-3855-z	https://doi.org/10.1007/s11771-018-3855-z	Freshwater	República Popular China	Cfa	Yes

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
springer-link	Ecotoxicology	Jun XuMei LiNai Ki MakFeng ChenYue Jiang	2011	Triphenyltin induced growth inhibition and antioxidative responses in the green micro-alga <i>Scenedesmus quadricauda</i>	http://link.springer.com/article/10.1007/s10646-010-0557-1	https://doi.org/10.1007/s10646-010-0557-1	Freshwater	República Popular China	Cfa	Not
springer-link	Archives of Environmental Contamination and Toxicology	L. GeoffroyD. DewezG. VernetR. Popovic	2003	Oxyfluorfen Toxic Effect on <i>S. obliquus</i> Evaluated by Different Photosynthetic and Enzymatic Biomarkers	http://link.springer.com/article/10.1007/s00244-003-2217-4	https://doi.org/10.1007/s00244-003-2217-4	Freshwater	Francia	Cfb	Not
springer-link	Journal of Oceanology and Limnology	Dongdong MaYongfu LiHaifang Fu	2020	Effect of high temperature on the balance between photosynthetic light absorption and energy utilization in <i>Chlorella pyrenoidosa</i> (Chlorophyceae)	http://link.springer.com/article/10.1007/s00343-019-8369-5	https://doi.org/10.1007/s00343-019-8369-5	Freshwater	República Popular China	Dfa	Not
springer-link	Future Journal of Pharmaceutical Sciences	Biswajita PradhanSrimanta PatraSoumya Ranjan DashRabindra NayakChhandashree BeheraMrutyunjay Jena	2021	Evaluation of the anti-bacterial activity of methanolic extract of <i>Chlorella vulgaris</i> Beyrerinck [Beijerinck] with special reference to antioxidant modulation	http://link.springer.com/article/10.1186/s43094-020-00172-5	https://doi.org/10.1186/s43094-020-00172-5	Freshwater	India	Aw	Not
springer-link	Environmental Science and Pollution Research	Linfeng ChenYi WangLulu Shi-Jingchan ZhaoWenhui Wang	2019	Identification of allelochemicals from pomegranate peel and their effects on <i>Microcystis aeruginosa</i> growth	http://link.springer.com/article/10.1007/s11356-019-05507-1	https://doi.org/10.1007/s11356-019-05507-1	Freshwater	República Popular China	Cfa	Yes
springer-link	Bulletin of Environmental Contamination and Toxicology	Qingqing LiuGuangsheng Zhang-Jiannan DingHua ZouHongxing ShiChaoqun Huang	2018	Evaluation of the Removal of Potassium Cyanide and its Toxicity in Green Algae (<i>Chlorella vulgaris</i>)	http://link.springer.com/article/10.1007/s00128-017-2208-1	https://doi.org/10.1007/s00128-017-2208-1	Freshwater	República Popular China	Cfa	Not
Science-Direct	Environmental Pollution,	Jingyu Yin, Wenhong Fan, Juan Du, Weiying Feng, Zhaomin Dong, Yingying Liu, Tingting Zhou,	2020	The toxicity of graphene oxide affected by algal physiological characteristics: A comparative study in cyanobacterial, green algae, diatom,	https://www.sciencedirect.com/science/article/pii/S0269749119357343	https://doi.org/10.1016/j.envpol.2019.113847	Freshwater	República Popular China	Cfa	Not
Science-Direct	Ecological Engineering,	Min-Kyu Ji, Akhil N. Kabra, Jaewon Choi, Jae-Hoon Hwang, Jung Rae Kim, Reda A.I. Abou-Shanab, You-Kwan Oh, Byong-Hun Jeon,	2014	Biodegradation of bisphenol A by the freshwater microalgae <i>Chlamydomonas mexicana</i> and <i>Chlorella vulgaris</i> ,	https://www.sciencedirect.com/science/article/pii/S0925857414004819	https://doi.org/10.1016/j.ecoleng.2014.09.070	Freshwater	Corea del Sur	Dfa	Yes
Science-Direct	Chemosphere,	Andrea Broccoli, Serena Anselmi, Andrea Cavallo, Vittoria Ferrari, Daniela Prevedelli, Paolo Pastorino, Monia Renzi,	2021	Ecotoxicological effects of new generation pollutants (nanoparticles, amoxicillin and white musk) on freshwater and marine phytoplankton species,	https://www.sciencedirect.com/science/article/pii/S0045653521010948	https://doi.org/10.1016/j.chemosphere.2021.130623	Marine and Freshwater	Italia	Csa	Not

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Science-Direct	Aquatic Toxicology,	Shurui Gu, Hao Zheng, Qingqing Xu, Cuizhu Sun, Mei Shi, Zhenyu Wang, Fengmin Li,	2017	Comparative toxicity of the plasticizer dibutyl phthalate to two freshwater algae,	https://www.sciencedirect.com/science/article/pii/S0166445X17302291	https://doi.org/10.1016/j.aquatox.2017.08.007	Freshwater	República Popular China	Cfa	Not
Science-Direct	Ecotoxicology and Environmental Safety,	Laura Míguez, Marta Esperanza, Marta Seoane, Ángeles Cid,	2021	Assessment of cytotoxicity biomarkers on the microalga <i>Chlamydomonas reinhardtii</i> exposed to emerging and priority pollutants,	https://www.sciencedirect.com/science/article/pii/S0147651320314834	https://doi.org/10.1016/j.ecoenv.2020.111646	Freshwater	España	Cfb	Not
Science-Direct	Marine Pollution Bulletin,	Layla J. Hazeem, Gamze Yesilay, Mohamed Bououdina, Simone Perna, Demet Cetin, Zekiye Suludere, Alexandre Barras, Rabah Boukherroub,	2020	Investigation of the toxic effects of different polystyrene micro-and nanoplastics on microalgae <i>Chlorella vulgaris</i> by analysis of cell viability, pigment content, oxidative stress and ultrastructural changes,	https://www.sciencedirect.com/science/article/pii/S0025326X20303969	https://doi.org/10.1016/j.marpolbul.2020.111278	Marine and Freshwater	Baréin	Bwh	Not
Science-Direct	Phytochemistry,	Joseph Msanne, Di Xu, Anji Reddy Konda, J. Armando Casas-Mollano, Tala Awada, Edgar B. Cahoon, Heriberto Cerutti,	2012	Metabolic and gene expression changes triggered by nitrogen deprivation in the photoautotrophically grown microalgae <i>Chlamydomonas reinhardtii</i> and <i>Coccomyxa</i> sp. C-169,	https://www.sciencedirect.com/science/article/pii/S0031942211005619	https://doi.org/10.1016/j.phytochem.2011.12.007	Freshwater	Estados Unidos	Dfa	Not
Science-Direct	Environmental Pollution,	Hao Li, Jun Yao, Robert Duran, Jianli Liu, Ning Min, Zhihui Chen, Xiaozhe Zhu, Chenchen Zhao, Bo Ma, Wancheng Pang, Miaomiao Li, Ying Cao, Bang Liu,	2021	Toxic response of the freshwater green algae <i>Chlorella pyrenoidosa</i> to combined effect of flotation reagent butyl xanthate and nickel,	https://www.sciencedirect.com/science/article/pii/S0269749121008678	https://doi.org/10.1016/j.envpol.2021.117285	Freshwater	República Popular China	Dfa	Not
Science-Direct	Ecological Engineering,	Yang Feng, Xuexiu Chang, Lixing Zhao, Xiuping Li, Wenjun Li, Yi Jiang,	2013	Nanaomycin A methyl ester, an actinomycete metabolite: Algicidal activity and the physiological response of <i>Microcystis aeruginosa</i> ,	https://www.sciencedirect.com/science/article/pii/S0925857412004211	https://doi.org/10.1016/j.ecoleng.2012.12.066	Freshwater	República Popular China	Csb	Yes
Science-Direct	Ecotoxicology and Environmental Safety,	Raquel Aparecida Moreira, Giseli Swerts Rocha, Laís Conceição Meneses da Silva, Bianca Veloso Goulart, Cassiana Carolina Montagner, Maria da Graça Gama Melão, Evaldo Luiz Gaeta Espindola,	2020	Exposure to environmental concentrations of fipronil and 2,4-D mixtures causes physiological, morphological and biochemical changes in <i>Raphidocelis subcapitata</i>	https://www.sciencedirect.com/science/article/pii/S0147651320310198	https://doi.org/10.1016/j.ecoenv.2020.111180	Freshwater	Brasil	Cwa	Not
Science-Direct	Journal of Environmental Sciences,	Xia Hu, Jiti Zhou, Guangfei Liu, Bing Gui,	2016	Selection of microalgae for high CO2 fixation efficiency and lipid accumulation from ten <i>Chlorella</i> strains using municipal wastewater,	https://www.sciencedirect.com/science/article/pii/S1001074216300456	https://doi.org/10.1016/j.jes.2015.08.030	Freshwater	República Popular China	Dwb	Not
Science-Direct	Aquatic Toxicology,	Muris Korkaric, Renata Behra, Beat B. Fischer, Marion Junghans, Rik I.L. Eggen,	2015	Multiple stressor effects in <i>Chlamydomonas reinhardtii</i> – Toward understanding mechanisms of interaction between effects of ultraviolet radiation and chemical pollutants,	https://www.sciencedirect.com/science/article/pii/S0166445X15000685	https://doi.org/10.1016/j.aquatox.2015.03.001	Marine and Freshwater	Suíza	Cfa	Not

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Science-Direct	Renewable Energy,	Zhen Xie, Haiyan Pei, Lijie Zhang, Zhigang Yang, Changliang Nie, Qingjie Hou, Ze Yu,	2020	Accelerating lipid production in freshwater alga <i>Chlorella sorokiniana</i> SDEC-18 by seawater and ultrasound during the stationary phase,	https://www.sciencedirect.com/science/article/pii/S0960148120311149	https://doi.org/10.1016/j.renene.2020.07.038	Marine and Freshwater	República Popular China	Dfa	Not
Science-Direct	Science of The Total Environment,	Didier L. Baho, Francesco Pomati, Eva Leu, Dag O. Hessen, S. Jannicke Moe, Jon Norberg, Luca Nizzetto,	2019	A single pulse of diffuse contaminants alters the size distribution of natural phytoplankton communities,	https://www.sciencedirect.com/science/article/pii/S0048969719322685	https://doi.org/10.1016/j.scitotenv.2019.05.229	Freshwater	Noruega	Dfb	Not
Science-Direct	Ecotoxicology and Environmental Safety,	Yingxiang Du, Jing Wang, Fengyi Zhu, Dina Mai, Zhongrun Xiang, Jianqiu Chen, Ruixin Guo,	2018	Comprehensive assessment of three typical antibiotics on cyanobacteria (<i>Microcystis aeruginosa</i>): The impact and recovery capability,	https://www.sciencedirect.com/science/article/pii/S0147651318304135	https://doi.org/10.1016/j.ecoenv.2018.05.035	Freshwater	República Popular China	Cfa	Not
Science-Direct	Journal of Water Process Engineering,	Chaofan Zhang, Shih-Hsin Ho, Anran Li, Liang Fu, Dandan Zhou,	2021	Co-culture of <i>Chlorella</i> and <i>Scenedesmus</i> could enhance total lipid production under bacteria quorum sensing molecule stress,	https://www.sciencedirect.com/science/article/pii/S2214714420306164	https://doi.org/10.1016/j.jwpe.2020.101739	Freshwater	República Popular China	Cfa	Not
Science-Direct	Science of The Total Environment,	Marta Esperanza, Marta Seoane, Carmen Rioboo, Concepción Herrero, Ángeles Cid,	2019	Differential toxicity of the UV-filters BP-3 and BP-4 in <i>Chlamydomonas reinhardtii</i> : A flow cytometric approach,	https://www.sciencedirect.com/science/article/pii/S0048969719310976	https://doi.org/10.1016/j.scitotenv.2019.03.116	Freshwater	España	Cfb	Not
Science-Direct	Ecotoxicology and Environmental Safety,	Raquel Prado, Carmen Rioboo, Concepción Herrero, Ángeles Cid,	2012	Screening acute cytotoxicity biomarkers using a microalga as test organism,	https://www.sciencedirect.com/science/article/pii/S0147651312003168	https://doi.org/10.1016/j.jhazmat.2021.126084	Freshwater	España	Csb	Not
Science-Direct	Biomass and Bioenergy,	Byung-Hyuk Kim, Rishiram Ramanan, Zion Kang, Dae-Hyun Cho, Hee-Mock Oh, Hee-Sik Kim,	2016	<i>Chlorella sorokiniana</i> HS1, a novel freshwater green algal strain, grows and hyperaccumulates lipid droplets in seawater salinity,	https://www.sciencedirect.com/science/article/pii/S0961953415301987	https://doi.org/10.1016/j.biombioe.2015.12.026	Marine and Freshwater	Corea del Sur	Dfa	Not
Science-Direct	Environmental and Experimental Botany,	Surbhi Kharwar, Arun Kumar Mishra,	2020	Unraveling the complexities underlying sulfur deficiency and starvation in the cyanobacterium <i>Anabaena</i> sp. PCC 7120,	https://www.sciencedirect.com/science/article/pii/S0098847219315643	https://doi.org/10.1016/j.envexpbot.2019.103966	Marine and Freshwater	India	Csa	Not
Science-Direct	Environmental Pollution,	Liu Yang, Fengkui Duan, Hua Tian, Kebin He, Yongliang Ma, Tao Ma, Hui Li, Shuo Yang, Lidan Zhu,	2019	Biotoxicity of water-soluble species in PM2.5 using <i>Chlorella</i> ,	https://www.sciencedirect.com/science/article/pii/S0269749119300508	https://doi.org/10.1016/j.envpol.2019.04.017	Freshwater	República Popular China	Dfa	Not
Redalyc	Orinoquia	Caroll E. Cortés - Castillo, Julián Sánchez-Villarraga, Jorge Padilla, Angélica M. Otero-Paternina Martha L. Ortiz- Moreno,	2012	Evaluación del crecimiento de la microalga <i>chlorella sorokiniana</i> en diferentes medios de cultivo en condiciones autotróficas y mixotróficas	https://www.redalyc.org/pdf/896/89625076002.pdf		Freshwater	Colombia	Am	Yes

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Redalyc	Revista Colombiana de Biotecnología	Nelson Valero Valero, Ever Morales Avendaño Liliana Cecilia Gómez Gómez,	2012	Bacterias halotolerantes/alcalofilas productoras de ácido indolacético (AIA) asociadas a <i>Arthrospira platensis</i> (Cyanophyceae)	https://www.redalyc.org/pdf/776/77625517009.pdf		Freshwater	Colombia	Bsh	Yes
Redalyc	Orinoquia	Juan A Ramírez-Merlano, Javier A Jiménez-Forero Cristian A Burgos-Rada,	2016	Uso de fertilizante comercial en la cinética celular de <i>Desmodesmus opoliensis</i> (Chlorophyceae) reporte preliminar	https://www.redalyc.org/pdf/896/89659214003.pdf		Freshwater	Colombia	Am	Not
Redalyc	Revista MVZ Córdoba	Litia De la Cruz, Mario Morales Martha Prieto,	2006	Cultivo experimental del cladocero <i>Moina sp</i> alimentado con <i>Ankistrodesmus sp</i> y <i>Saccharomyces cerevisiae</i>	https://www.redalyc.org/pdf/693/69311104.pdf		Freshwater	Colombia	Aw	Not
Redalyc	Acta Biológica Colombiana	Jae Diana PAREDES RODRÍGUEZ, Juan Carlos CASTRO GÓMEZ Marianela COBOS RUIZ,	2016	Inducción de la producción de lípidos totales en microalgas sometidas a estrés nutritivo	https://www.redalyc.org/pdf/3190/319043374002.pdf		Freshwater	Perú	Af	Not
Redalyc	Ecología Aplicada	Juan Carlos Castro Gómez, Luis Alexander Cerdeira Gutierrez Marianela Cobos Ruiz,	2014	Potencial biotecnológico para la producción sustentable de biodiesel de microalgas oleaginosas aisladas del río itaya loreto Perú	https://www.redalyc.org/pdf/341/34132815011.pdf		Freshwater	Perú	Af	Not
Redalyc	Revista de Biología Tropical	Margarito Tapia-García, Ma. Del Carmen González-Macias, Ma. Guadalupe Figueroa-Torres José L. Moreno-Ruiz,	2008	Fitoplancton del río Tehuantepec Oaxaca México y algunas relaciones biogeográficas	https://www.redalyc.org/pdf/449/44918831003.pdf		Freshwater	México	Cfa	Not
Redalyc	Biota Colombiana	Esnedy Hernández, Diana María Agudelo, Nestor Jaime Aguirre, Fabio de Jesús Vélez Ana María Zabala-Agudelo,	2019	Variación temporal de la morfología funcional del fitoplancton en una planicie inundable del Caribe Colombiano	https://www.redalyc.org/journal/491/49162371002/49162371002.pdf	doi.org/10.21068/c2019.v20n02a01	Freshwater	Colombia	Am	Not
WOS	BIORESOURCE TECHNOLOGY	Dean, AP; Sigee, DC; Estrada, B; Pittman, JK	2010	Using FTIR spectroscopy for rapid determination of lipid accumulation in response to nitrogen limitation in freshwater microalgae	http://dx.doi.org/10.1016/j.biortech.2010.01.065	10.1016/j.biortech.2010.01.065	Freshwater	Reino Unido	Cfb	Not
WOS	ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY	KENT, RA; CURRIE, D	1995	Predicting algal sensitivity to a pesticide stress	http://dx.doi.org/10.1002/etc.5620140609	10.1002/etc.5620140609	Freshwater	Canadá	Dfb	Not
WOS	BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES	Arnold, AA; Genard, B; Zito, F; Tremblay, R; Warschawski, DE; Marcotte, I	2015	Identification of lipid and saccharide constituents of whole microalgal cells by C-13 solid-state NMR	http://dx.doi.org/10.1016/j.bbamem.2014.07.017	10.1016/j.bbamem.2014.07.017	Marine and freshwater	Canadá	Dfb	Not

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
WOS	JOURNAL OF APPLIED PHYCOLOGY	Fan, PP; Xu, PP; Zhu, YX; Tu, XJ; Song, GF; Zuo, YX; Bi, YH	2022	Addition of humic acid accelerates the growth of <i>Euglena pisciformis</i> AEW501 and the accumulation of lipids	http://dx.doi.org/10.1007/s10811-021-02623-9	10.1007/s10811-021-02623-9	Freshwater	República Popular China	Cfa	Not
WOS	FRESHWATER BIOLOGY	Bec, A; Perga, ME; Desvillettes, C; Bourdier, G	2010	How well can the fatty acid content of lake seston be predicted from its taxonomic composition?	http://dx.doi.org/10.1111/j.1365-2427.2010.02429.x	10.1111/j.1365-2427.2010.02429.x	Freshwater	Francia	Cfb	Not
WOS	FRESHWATER BIOLOGY	Kilham, SS; Kreeger, DA; Goulden, CE; Lynn, SG	1997	Effects of nutrient limitation on biochemical constituents of <i>Ankistrodesmus falcatus</i>	http://dx.doi.org/10.1046/j.1365-2427.1997.00231.x	10.1046/j.1365-2427.1997.00231.x	Freshwater	Estados Unidos	Cfa	Not
WOS	PHYCOLOGIA	Sigee, DC; Bahram, F; Estrada, B; Webster, RE; Dean, AP	2007	The influence of phosphorus availability on carbon allocation and P quota in <i>Scenedesmus subspicatus</i> : A synchrotron-based FTIR analysis	http://dx.doi.org/10.2216/07-14.1	10.2216/07-14.1	Freshwater	Reino Unido	Cfb	Yes
Scopus	Science of the Total Environment	Liu X., Xie N., Bai M., Li J., Wang G.	2021	Composition change and decreased diversity of microbial eukaryotes in the coastal upwelling waters of South China Sea	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85109686096&doi=10.1016%2fj.scitotenv.2021.148892&partnerID=40&md5=54b5662de489b21dc66e81163190c122	10.1016/j.scitotenv.2021.148892	Marine			
Scopus	Journal of Phycology	Li Z., Li W., Zhang Y., Hu Y., Sheward R., Irwin A.J., Finkel Z.V.	2021	Dynamic Photophysiological Stress Response of a Model Diatom to Ten Environmental Stresses	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85100110073&doi=10.1111%2fjpy.13072&partnerID=40&md5=dc854941e6678748dfe952c2b7ffb5b8	10.1111/jpy.13072	Marine			
Scopus	Frontiers in Marine Science	Samuels T., Rynearson T.A., Collins S.	2021	Surviving Heatwaves: Thermal Experience Predicts Life and Death in a Southern Ocean Diatom	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85100745014&doi=10.3389%2ffmars.2021.600343&partnerID=40&md5=a867fac38d5adad145903023f0235bd0	10.3389/fmars.2021.600343	Marine			
Scopus	Frontiers in Microbiology	Thangaraj S., Palanisamy S.K., Zhang G., Sun J.	2021	Quantitative Proteomic Profiling of Marine Diatom <i>Skeletonema dohrnii</i> in Response to Temperature and Silicate Induced Environmental Stress	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102062663&doi=10.3389%2ffmicb.2020.554832&partnerID=40&md5=69eb68f243bdbb2ab02aa5221ba4007e	10.3389/fmicb.2020.554832	Marine			
Scopus	African Journal of Marine Science	Acheampong E., Mantey P., Weremfo A.	2021	Potential impact of marine heatwaves on selected phytoplankton adapted to the Gulf of Guinea during stable hydrographic periods	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85103362792&doi=10.2989%2f1814232X	10.2989/1814232X.2021.1879267	Marine			

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
					2021.1879267&part-nerID=40&md5=6a32c5715f352dc971a65cc72b9cabf4					
Scopus	Microbial Ecology	González-Olalla J.M., Medina-Sánchez J.M., Norici A., Carrillo P.	2021	Regulation of Phagotrophy by Prey, Low Nutrients, and Low Light in the Mixotrophic Haptophyte Isochrysis galbana	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102181795&doi=10.1007%2fs00248-021-01723-w&part-nerID=40&md5=863638f70900514bd6fdb3c858eae795	10.1007/s00248-021-01723-w	Marine			
Scopus	Journal of Phycology	Nakov T., Judy K.J., Downey K.M., Ruck E.C., Alverson A.J.	2020	Transcriptional Response of Osmolyte Synthetic Pathways and Membrane Transporters in a Euryhaline Diatom During Long-term Acclimation to a Salinity Gradient	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090825099&doi=10.1111%2fjpy.13061&part-nerID=40&md5=815ad45dfb0774aa23836a0e94f909b8	10.1111/jpy.13061	Marine			
Scopus	Elementa	Amiriaux R., Burot C., Bonin P., Massé G., Guasco S., Babin M., Vaultier F., Rontani J.-F.	2020	Stress factors resulting from the Arctic vernal sea-ice melt: Impact on the viability of bacterial communities associated with sympagic algae	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098474258&doi=10.1525%2felementa.076&part-nerID=40&md5=7354b0caaa41df9d993e1810a06a5a2e	10.1525/elementa.076	Marine			
Scopus	Evolutionary Applications	Jin P., González G., Agustí S.	2020	Long-term exposure to increasing temperature can offset predicted losses in marine food quality (fatty acids) caused by ocean warming	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088588762&doi=10.1111%2feva.13059&part-nerID=40&md5=1e2753b3c5da4aa99d8f944b861f80b0	10.1111/eva.13059	Marine			
Scopus	Journal of Experimental Marine Biology and Ecology	Hernando M., Varela D.E., Malanga G., Almandoz G.O., Schloss I.R.	2020	Effects of climate-induced changes in temperature and salinity on phytoplankton physiology and stress responses in coastal Antarctica	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085615022&doi=10.1016%2fj.jembe.2020.151400&part-nerID=40&md5=79f5fb82cac684c09d7c88fc6789d829	10.1016/j.jembe.2020.151400	Marine			
Scopus	Science of the Total Environment	Gomes T., Almeida A.C., Georantzopoulou A.	2020	Characterization of cell responses in Rhodomonas baltica exposed to PMMA nanoplastics	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083332156&doi=10.1016%2fj.scitotenv.2020.138547&part-nerID=40&md5=7ffa364dec45c354f62e73024a5b44ee	10.1016/j.scitotenv.2020.138547	Marine			

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Scopus	Journal of Applied Phycology	Ishika T., Laird D.W., Bahri P.A., Moheimani N.R.	2019	Co-cultivation and stepwise cultivation of Chaetoceros muelleri and Amphora sp. for fucoxanthin production under gradual salinity increase	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059685672&doi=10.1007%2fs10811-018-1718-5&part-nerID=40&md5=21384619d8997e9e5cb2b20d06d35508	10.1007/s10811-018-1718-5	Marine			
Scopus	Frontiers in Microbiology	Severin T., Erdner D.L.	2019	The phytoplankton taxon-dependent oil response and its microbiome: Correlation but not causation	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066489972&doi=10.3389%2ffmicb.2019.00385&part-nerID=40&md5=1be76e3a4d237f956fa719f5832cb821	10.3389/fmicb.2019.00385	Marine			
Scopus	Ecological Indicators	Feijão E., Gameiro C., Franzitta M., Duarte B., Caçador I., Cabrita M.T., Matos A.R.	2018	Heat wave impacts on the model diatom Phaeodactylum tricornutum: Searching for photochemical and fatty acid biomarkers of thermal stress	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027219876&doi=10.1016%2fj.ecolind.2017.07.058&part-nerID=40&md5=ea56cd2f1059682aa1b75c88b78e790e	10.1016/j.ecolind.2017.07.058	Marine			
Scopus	Journal of Eukaryotic Microbiology	Fujise L., Nitschke M.R., Frommlet J.C., Serôdio J., Woodcock S., Ralph P.J., Suggett D.J.	2018	Cell Cycle Dynamics of Cultured Coral Endosymbiotic Microalgae (Symbiodinium) Across Different Types (Species) Under Alternate Light and Temperature Conditions	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041226023&doi=10.1111%2fjeu.12497&part-nerID=40&md5=31225b4b6ffff7230cca8b127e33d9cd	10.1111/jeu.12497	Marine			
Scopus	Journal of Experimental Marine Biology and Ecology	Hernando M., Schloss I.R., Almanoz G.O., Malanga G., Varela D.E., De Troch M.	2018	Combined effects of temperature and salinity on fatty acid content and lipid damage in Antarctic phytoplankton	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044159425&doi=10.1016%2fj.jembe.2018.03.004&part-nerID=40&md5=65ff362994eae08739f2dc9d97da644d	10.1016/j.jembe.2018.03.004	Marine			
Scopus	Botanica Marina	Scholz B., Vyverman W., Küpper F.C., Ólafsson H.G., Karsten U.	2017	Effects of environmental parameters on chytrid infection prevalence of four marine diatoms: A laboratory case study	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012887671&doi=10.1515%2fbot-2016-0105&part-nerID=40&md5=7bf7dd80db5c9cae05ddcb7f9ff6ab3	10.1515/bot-2016-0105	Marine			
Scopus	Applied Chemistry for Engineering	Rizwan M., Mujtaba G., Lee K.	2017	Effects of multiple stress factors including iron supply on cell growth and lipid accumulation in marine microalga Dunaliella tertiolecta	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028309973&doi=10.14478%2face.2017	10.14478/ace.2017.1018	Marine			

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					1018&part-nerID=40&md5=8de54522c92b2dcdbbb50c14761c10df					
Scopus	Journal of Phycology	Pereira N., Shilova I.N., Zehr J.P.	2016	Molecular markers define progressing stages of phosphorus limitation in the nitrogen-fixing cyanobacterium, Crocosphaera	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960153279&doi=10.1111%2fjpy.12396&part-nerID=40&md5=c4450d26ee33bdb63e280d9f5ca0ac18	10.1111/jpy.12396	Marine			
Scopus	Journal of Environmental Science and Management	Limates V.G., Cuevas V.C., Tajolosa M.A.T., Benigno E.	2016	Phytoplankton abundance and distribution in selected sites of Boracay Island, Malay, Aklan, central Philippines	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043468226&part-nerID=40&md5=c28895c000b0b390e750da49c5e4a768	https://doi.org/10.47125/jesam/2016_sp2/01	Marine			
Scopus	Journal of Experimental Marine Biology and Ecology	Hernando M., Schloss I.R., Malanga G., Almandoz G.O., Ferreyra G.A., Aguiar M.B., Puntarulo S.	2015	Effects of salinity changes on coastal Antarctic phytoplankton physiology and assemblage composition	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924212688&doi=10.1016%2fj.jembe.2015.02.012&part-nerID=40&md5=c01aa395eb333ffdea597c7191825c03	10.1016/j.jembe.2015.02.012	Marine			
Scopus	Aquatic Ecology	Masmoudi S., Tastard E., Guermazi W., Caruso A., Morant-Manceau A., Ayadi H.	2015	Salinity gradient and nutrients as major structuring factors of the phytoplankton communities in salt marshes	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84912557399&doi=10.1007%2fs10452-014-9500-5&part-nerID=40&md5=502867a9683dfb204061604d08e87fb1	10.1007/s10452-014-9500-5	Marine			
Scopus	Journal of Experimental Marine Biology and Ecology	Cabrerizo M.J., Carrillo P., Villaña V.E., Walter Helbling E.	2014	Current and predicted global change impacts of UVR, temperature and nutrient inputs on photosynthesis and respiration of key marine phytoplankton groups	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84907682992&doi=10.1016%2fj.jembe.2014.08.022&part-nerID=40&md5=f25a35bc151db8e72335468fd9a0b0a5	10.1016/j.jembe.2014.08.022	Marine			
Scopus	Marine Biology	Mayzaud P., Boutoute M., Gasparini S., Mousseau L.	2014	Lipids and fatty acid composition of particulate matter in the North Atlantic: Importance of spatial heterogeneity, season and community structure	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84907594649&doi=10.1007%2fs00227-014-2476-9&part-nerID=40&md5=183822c608e315fe5c0bf81ba524e88d	10.1007/s00227-014-2476-9	Marine			

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
Scopus	ISME Journal	Pittera J., Humily F., Thorel M., Grulois D., Garczarek L., Six C.	2014	Connecting thermal physiology and latitudinal niche partitioning in marine <i>Synechococcus</i>	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84901285420&doi=10.1038%2fismej.2013.228&part-nerID=40&md5=885afeaff406a0ced4b6bc18438237a9	10.1038/ismej.2013.228	Marine			
Scopus	PLoS ONE	Hardison D.R., Sunda W.G., Shea D., Litaker R.W.	2013	Increased Toxicity of <i>Karenia brevis</i> during Phosphate Limited Growth: Ecological and Evolutionary Implications	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84874839168&doi=10.1371%2fjournal.pone.0058545&part-nerID=40&md5=9a47a28ad21e4c2c857bbc1154acf217	10.1371/journal.pone.0058545	Marine			
Scopus	PLoS ONE	Li G., Campbell D.A.	2013	Rising CO2 Interacts with Growth Light and Growth Rate to Alter Photosystem II Photoinactivation of the Coastal Diatom <i>Thalassiosira pseudonana</i>	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84873120731&doi=10.1371%2fjournal.pone.0055562&part-nerID=40&md5=0e645e3a551d8d52dc4ecb28b8358c7c	10.1371/journal.pone.0055562	Marine			
Scopus	Phycologia	Lelong A., Hégaret H., Soudant P., Bates S.S.	2012	<i>Pseudo-nitzschia</i> (Bacillariophyceae) species, domoic acid and amnesic shellfish poisoning: Revisiting previous paradigms	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859826686&doi=10.2216%2f11-37.1&part-nerID=40&md5=6e58e219a469b963a6ad27837ddcae1c	10.2216/11-37.1	Marine			
Scopus	Chinese Journal of Oceanology and Limnology	Liu S., Guo Z., Li T., Huang H., Lin S.	2011	Photosynthetic efficiency, cell volume, and elemental stoichiometric ratios in <i>Thalassiosira weissflogii</i> under phosphorus limitation	https://www.scopus.com/inward/record.uri?eid=2-s2.0-82055196646&doi=10.1007%2fs00343-011-0224-2&part-nerID=40&md5=d34dfb7d8410ef9a47ec87e982b7f767	10.1007/s00343-011-0224-2	Marine			
Scopus	Plant Physiology	Wu H., Cockshutt A.M., McCarthy A., Campbell D.A.	2011	Distinctive photosystem ii photoinactivation and protein dynamics in marine diatoms	https://www.scopus.com/inward/record.uri?eid=2-s2.0-79961197265&doi=10.1104%2fpp.111.178772&part-nerID=40&md5=d0d7ac396b0719bb867f1f235d7f7c3f	10.1104/pp.111.178772	Marine			
Scopus	Plant Physiology	Six C., Sherrard R., Lionard M., Roy S., Campbell D.A.	2009	Photosystem II and Pigment Dynamics among ecotypes of the green alga <i>Ostreococcus</i>	https://www.scopus.com/inward/record.uri?eid=2-s2.0-70349196793&doi=10.1104%2fpp.109.140566	10.1104/pp.109.140566	Marine			

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					0566&part-nerID=40&md5=7c034b6997fec779d86acfe0ee66133a					
Scopus	Archives of Environmental Contamination and Toxicology	Leitão M.A.D.S., Cardozo K.H.M., Pinto E., Colepicolo P.	2003	PCB-induced oxidative stress in the unicellular marine dinoflagellate Lingulodinium polyedrum	https://www.scopus.com/inward/record.uri?eid=2-s2.0-0038817870&doi=10.1007%2fs00244-002-0208-5&part-nerID=40&md5=53bf18ad4900cd55ef088927523e2d1e	10.1007/s00244-002-0208-5	Marine			
Scopus	Journal of Plankton Research	Rijstenbil J.W.	2002	Assessment of oxidative stress in the planktonic diatom Thalassiosira pseudonana in response to UVA and UVB radiation	https://www.scopus.com/inward/record.uri?eid=2-s2.0-0036915012&doi=10.1093%2fplankt%2f24.12.1277&part-nerID=40&md5=ed87233cb743de715e100b2ba4d5fffc	10.1093/plankt/24.12.1277	Marine			
Scopus	Hydrobiologia	Scanlan D.J., Wilson W.H.	1999	Application of molecular techniques to addressing the role of P as a key effector in marine ecosystems	https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033133583&doi=10.1023%2fA%3a1003742528262&part-nerID=40&md5=0c4ee0dd3cefb9d0385cfec6f9f42dc0	10.1023/A:1003742528262	Marine			
Scopus	Journal of Phycology	Vaulot D., Birrien J.-L., Marie D., Casotti R., Veldhuis M.J.W., Kraay G.W., Chrétiennot-Dinet M.-J.	1994	MORPHOLOGY, PLOIDY, PIGMENT COMPOSITION, AND GENOME SIZE OF CULTURED STRAINS OF PHAEOCYSTIS (PRYMNESIOPHYCEAE)	https://www.scopus.com/inward/record.uri?eid=2-s2.0-0028191663&doi=10.1111%2fj.0022-3646.1994.01022.x&part-nerID=40&md5=121a034809ab9c53a649876f7e98d0a6	10.1111/j.0022-3646.1994.01022.x	Marine			
Scopus	Global Biogeochemical Cycles	Schimmelmann A., Tegner M.J.	1991	Historical oceanographic events reflected in $^{13}\text{C}/^{12}\text{C}$ ratio of total organic carbon in laminated Santa Barbara Basin Sediment	https://www.scopus.com/inward/record.uri?eid=2-s2.0-0026279689&doi=10.1029%2f91GB00382&part-nerID=40&md5=10f58fad81a8ae648daffe9c6a789872	10.1029/91GB00382	Marine			
springer-link	Hydrobiologia	Iosu Madariaga	2002	Short-term variations in the physiological state of phytoplankton [2pt] in a shallow temperate estuary	http://link.springer.com/article/10.1023/A%3A1020391425989	https://doi.org/10.1023/A:1020391425989	Estuarine			
springer-link	Marine Biology	C. C. ParrishJ. S. WellsZ. YangP. Dabinett	1999	Growth and lipid composition of scallop juveniles, <i>Placopecten magellanicus</i> , fed the flagellate <i>Isochrysis galbana</i> with varying lipid composition and the diatom <i>Chaetoceros muelleri</i>	http://link.springer.com/article/10.1007/s002270050486	https://doi.org/10.1007/s002270050486	Marine			

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springer-link	Journal of Applied Phycology	Francisco J. L. GordilloMadeleine GoutxFelix L. FigueroaF. Xavier Niell	1998	Effects of light intensity, CO2 and nitrogen supply on lipid class composition of <i>Dunaliella viridis</i>	http://link.springer.com/article/10.1023/A%3A1008067022973	https://doi.org/10.1023/A:1008067022973	Saline lakes			
springer-link	Hydrobiologia	A. T. LombardiP. J. Wangersky	1995	Particulate lipid class composition of three marine phytoplankters <i>Chaetoceros gracilis</i> , <i>Isochrysis galbana</i> (Tahiti) and <i>Dunaliella tertiolecta</i> grown in batch culture	http://link.springer.com/article/10.1007/BF00007853	https://doi.org/10.1007/BF00007853	Marine			
springer-link	Journal of Applied Phycology	Eizadora T. YuFrank J. ZendejasPamela D. LaneSara GaucherBlake A. SimmonsTodd W. Lane	2009	Triacylglycerol accumulation and profiling in the model diatoms <i>Thalassiosira pseudonana</i> and <i>Phaeodactylum tricornutum</i> (Bacillariophyceae) during starvation	http://link.springer.com/article/10.1007/s10811-008-9400-y	https://doi.org/10.1007/s10811-008-9400-y	Marine			
springer-link	Environmental Monitoring and Assessment	Revati HardikarC. K. HarideviAnirudh RamRakhee Khandeparke-rUjwala AmberkarMeena Chauhan	2019	Inter-annual variability of phytoplankton assemblage and <i>Tetraspora gelatinosa</i> bloom from anthropogenically affected harbour, Veraval, India	http://link.springer.com/article/10.1007/s10661-019-7192-y	https://doi.org/10.1007/s10661-019-7192-y	Marine			
springer-link	Journal of Applied Phycology	Nagwa Gamal-EI Din Moham-madyYean-Chang ChenAbd-El-Ruhman Aly El-MahdyRania Farag Mohammad	2005	Temporal alterations of <i>Nannochloropsis salina</i> (Eustigmatophyceae) grown under aqueous diesel fuel stress	http://link.springer.com/article/10.1007/s10811-005-5510-y	https://doi.org/10.1007/s10811-005-5510-y	Marine			
springer-link	Ecotoxicology	Monia RenziLeonilde RoselliAndrea GiovaniSilvano E. FocardiAlberto Basset	2014	Early warning tools for ecotoxicity assessment based on <i>Phaeodactylum tricornutum</i>	http://link.springer.com/article/10.1007/s10646-014-1249-z	https://doi.org/10.1007/s10646-014-1249-z	Marine			
springer-link	Marine Biology	P. G. VerityT. J. Smayda	1989	Nutritional value of <i>Phaeocystis pouchetii</i> (Prymnesiophyceae) and other phytoplankton for <i>Acartia</i> spp. (Copepoda): ingestion, egg production, and growth of nauplii	http://link.springer.com/article/10.1007/BF00391955	https://doi.org/10.1007/BF00391955	Marine			
springer-link	Journal of Applied Phycology	Rong-Shi ChenLi ZhangFeng-Juan WeiLan-Ying YuanPu ZhaoHe-Yu WangYi-Fu Gong	2021	Effects of Mn2+ on neutral lipid content, C4 pathway, and related gene expression in <i>Phaeodactylum tricornutum</i>	http://link.springer.com/article/10.1007/s10811-021-02471-7	https://doi.org/10.1007/s10811-021-02471-7	Marine			
springer-link	Hydrobiologia	Mary N. KaggwaMartin GruberSteve Omondi OduorMichael Schagerl	2013	A detailed time series assessment of the diet of Lesser Flamingos: further explanation for their itinerant behaviour	http://link.springer.com/article/10.1007/s10750-012-1105-1	https://doi.org/10.1007/s10750-012-1105-1	Saline lakes			
springer-link	Hydrobiologia	Haley S. GarrisonKam W. Tang	2014	Effects of episodic turbulence on diatom mortality and physiology, with a protocol for the use of Evans Blue stain for live“dead determinations	http://link.springer.com/article/10.1007/s10750-014-1927-0	https://doi.org/10.1007/s10750-014-1927-0	Marine			
springer-link	Biotechnology and Bioprocess Engineering	Xiaoli HuPinghe YinLing ZhaoQiming Yu	2015	Characterization of cell viability in <i>Phaeocystis globosa</i> cultures exposed to marine algicidal bacteria	http://link.springer.com/article/10.1007/s12257-014-0437-2	https://doi.org/10.1007/s12257-014-0437-2	Marine			

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springer-link	Journal of Ocean University of China	Dayong LiangXiaodong WangYiping HuoYan WangShaoshan Li	2021	Differences Between Solitary Cells and Colonial Cells in the Heteromorphic Life Cycle of <i>Phaeocystis globosa</i> : Morphology, Physiology, and Transcriptome	http://link.springer.com/article/10.1007/s11802-021-4684-5	https://doi.org/10.1007/s11802-021-4684-5	Marine			
springer-link	Marine Biology	Yun LiuTiantian ChenShuqun SongCaiwen Li	2019	Variation in biochemical composition during encystment of the planktonic dinoflagellate <i>Akashiwo sanguinea</i> in N-limited cultures	http://link.springer.com/article/10.1007/s00227-019-3569-2	https://doi.org/10.1007/s00227-019-3569-2	Marine			
springer-link	Marine Biology	O. OkuA. Kamatani	1995	Resting spore formation and phosphorus composition of the marine diatom <i>Chaetoceros pseudocurvisetus</i> under various nutrient conditions	http://link.springer.com/article/10.1007/BF00353630	https://doi.org/10.1007/BF00353630	Marine			
springer-link	Polar Biology	Kyle DilliplaineMarc OggierR. Eric CollinsHajo EickenRolf Grading-erBodil A. Bluhm	2021	Crude oil exposure reduces ice algal growth in a sea-ice mesocosm experiment	http://link.springer.com/article/10.1007/s00300-021-02818-3	https://doi.org/10.1007/s00300-021-02818-3	Marine			
springer-link	Marine Biology	J. W. RijstenbilJ. W. M. DerksenL. J. A. GerringaT. C. W. PoortvlietA. SandeeM. van den BergJ. van DrieJ. A. Wijnholds	1994	Oxidative stress induced by copper: defense and damage in the marine planktonic diatom <i>Ditylum brightwellii</i> , grown in continuous cultures with high and low zinc levels	http://link.springer.com/article/10.1007/BF00354321	https://doi.org/10.1007/BF00354321	Marine			
springer-link	Marine Biology	Norma EstradaCarmen Rodríguez-JaramilloGerardo Contreras-Felipe Ascencio	2010	Effects of induced paralysis on hemocytes and tissues of the giant lions-paw scallop by paralyzing shellfish poison	http://link.springer.com/article/10.1007/s00227-010-1418-4	https://doi.org/10.1007/s00227-010-1418-4	Marine			
springer-link	Polar Biology	Pirjo HuovinenIvÄn GÃmez	2013	Photosynthetic characteristics and UV stress tolerance of Antarctic seaweeds along the depth gradient	http://link.springer.com/article/10.1007/s00300-013-1351-3	https://doi.org/10.1007/s00300-013-1351-3	Marine			
springer-link	Aquatic Biosystems	Matthew A FuszardPhillip C WrightCatherine A Biggs	2012	Comparative quantitative proteomics of prochlorococcus ecotypes to a decrease in environmental phosphate concentrations	http://link.springer.com/article/10.1186/2046-9063-8-7	https://doi.org/10.1186/2046-9063-8-7	Marine			
Science-Direct	Journal of Experimental Marine Biology and Ecology,	Marcelo Hernando, Diana E. Varela, Gabriela Malanga, Gastón O. Almandoz, Irene R. Schloss,	2020	Effects of climate-induced changes in temperature and salinity on phytoplankton physiology and stress responses in coastal Antarctica,	https://www.sciencedirect.com/science/article/pii/S0022098119303521	https://doi.org/10.1016/j.jembe.2020.151400	Marine			
Science-Direct	Aquatic Toxicology,	Peggy Sargian, Émilien Pelletier, Behzad Mostajir, Gustavo A. Ferreryra, Serge Demers,	2005	TBT toxicity on a natural planktonic assemblage exposed to enhanced ultraviolet-B radiation,	https://www.sciencedirect.com/science/article/pii/S0166445X05000949	https://doi.org/10.1016/j.aquatox.2005.03.019	Marine			
Science-Direct	Ecotoxicology and Environmental Safety,	Yuxin Liu, Yu Liu, Dian Jiao, Chao Lu, Yadi Lou, Na Li, Guoguang Wang, Haixia Wang,	2021	Synthesis and release of fatty acids under the interaction of <i>Ulva pertusa</i> and <i>Heterosigma akashiwo</i> by stable isotope analysis,	https://www.sciencedirect.com/science/article/pii/S0147651320316882	https://doi.org/10.1016/j.ecoenv.2020.111852	Marine			

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
Science-Direct	Journal of Experimental Marine Biology and Ecology,	D.G. Redalje, E.A. Laws,	1983	The effects of environmental factors on growth and the chemical and biochemical composition of marine diatoms. I. Light and temperature effects,	https://www.sciencedirect.com/science/article/pii/0022098183900138	https://doi.org/10.1016/0022-0981(83)90013-8	Marine			
Science-Direct	Science of The Total Environment,	Mengchen Lv, Xuexi Tang, Yirong Zhao, Jun Li, Bihan Zhang, Luying Li, Yongshun Jiang, Yan Zhao,	2020	The toxicity, bioaccumulation and debromination of BDE-47 and BDE-209 in Chlorella sp. under multiple exposure modes,	https://www.sciencedirect.com/science/article/pii/S0048969720315990	https://doi.org/10.1016/j.scitotenv.2020.138086	Marine			
Science-Direct	Chemosphere,	Mst Ruhina Margia Khanam, Yohei Shimasaki, Md Zahangir Hosain, Koki Mukai, Michito Tsuyama, Xuchun Qiu, Rumana Tasmin, Hiroshi Goto, Yuji Oshima,	2017	Diuron causes sinking retardation and physiochemical alteration in marine diatoms Thalassiosira pseudonana and Skeletonema marinoi-dohrnii complex,	https://www.sciencedirect.com/science/article/pii/S0045653517302321	https://doi.org/10.1016/j.chemosphere.2017.02.054	Marine			
Science-Direct	Chemosphere,	Marta Seoane, Marta Esperanza, Carmen Rioboo, Concepción Herrero, Ángeles Cid,	2017	Flow cytometric assay to assess short-term effects of personal care products on the marine microalga Tetraselmis suecica,	https://www.sciencedirect.com/science/article/pii/S004565351631829X	https://doi.org/10.1016/j.chemosphere.2016.12.097	Marine			
Science-Direct	Journal of Experimental Marine Biology and Ecology,	Stephanie Mixson Byrd, JoAnn M. Burkholder, Paul V. Zimba,	2017	Environmental stressors and lipid production by Dunaliella spp. I. Salinity,	https://www.sciencedirect.com/science/article/pii/S002209811630226X	https://doi.org/10.1016/j.jembe.2016.11.004	Marine			
Redalyc	Ecología Aplicada	Juan Juscamaita-Morales, Jessie Vargas-Cárdenas, Ricardo Oliveros-Ramos Heidi Sánchez-Torres,	2008	Producción de la microalga <i>Nannochloropsis oculata</i> (droop) hibberd en medios enriquecidos con ensilado biológico de pescado	https://www.redalyc.org/pdf/341/34111584018.pdf		Marine			
Redalyc	Acta Botanica Mexicana	María Eugenia Zamudio-Resendiz María Esther Meave del Castillo,	2018	Planktonic algal blooms from 2000 to 2015 in Acapulco Bay Guerrero Mexico	https://www.redalyc.org/journal/574/57466755004/57466755004.pdf		Marine			
Redalyc	Ecología Aplicada	Juan Juscamaita, Jessie Vargas Luzmila Rodríguez,	2007	Efecto del medio em-bokashi en el cultivo de la microalga marina tetraselmis suecica k	https://www.redalyc.org/pdf/341/34160213.pdf		Marine			
Redalyc	Revista de Biología Tropical	Leandro Bastardo, Roraysi Cortez, Bertha Arredondo-Vega, Lolymar Romero, Patricia Gómez Miguel Guevara,	2011	Pastas de Rhodomonas salina (Cryptophyta) como alimento para Brachionus plicatilis (Rotifera)	https://www.redalyc.org/pdf/449/44920903006.pdf		Marine			
Redalyc	Revista de Biología Tropical	Miguel Guevara, César Lodeiros, Ever Morales Néstor Rosales-Loaiza,	2008	Crecimiento y producción de metabolitos de la cianobacteria marina Synechococcus sp. (Chroococcales) en función de la irradiancia	https://www.redalyc.org/pdf/449/44918833001.pdf		Marine			
Redalyc	UNED Research Journal / Cuadernos de	Pedro Toledo, Sidey Arias Karen Rodríguez-Núñez,	2016	Aislamiento de dos especies de diatomeas con potencial acuícola (Bacillariophyceae) en el Pacífico de Costa Rica	https://www.redalyc.org/journal/5156/515653586013/515653586013.pdf		Marine			

Platforms	Journal	Author	Year	Title	URL	Doi	Type of environment	Country	Climate	Mention the process of eutrophication studies
	Investigación UNED									
Redalyc	Revista MVZ Córdoba	Martha J. Mogollon, Ada L. Castro, Luis A. Sierra Martha J. Prieto,	2005	Efecto del medio y condiciones de cultivo en la productividad de tres diatomeas marinas con potencial acuícola	https://www.redalyc.org/pdf/693/69310104.pdf		Marine			
Redalyc	Revista de Biología Tropical	Sandra Loza, Paulo C. Abreu Gladys Margarita Lugioyo,	2007	Biomass distribution of heterotrophic and autotrophic microorganisms	https://www.redalyc.org/pdf/449/44955210.pdf		Marine			
WOS	ISME JOURNAL	Roy, S	2018	Distributions of phytoplankton carbohydrate, protein and lipid in the world oceans from satellite ocean colour	http://dx.doi.org/10.1038/s41396-018-0054-8	10.1038/s41396-018-0054-8	Marine			
WOS	ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY	Shamsudin, L	1998	Seasonal variation of fatty acid content in natural microplankton from the Tumpat coastal waters of the South China Sea	http://dx.doi.org/10.1076/apab.106.3.253.4381	10.1076/apab.106.3.253.4381	Marine			
WOS	ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY	Duan, WY; Meng, FP; Lin, YF; Wang, GS	2017	Toxicological effects of phenol on four marine microalgae	http://dx.doi.org/10.1016/j.etap.2017.04.006	10.1016/j.etap.2017.04.006	Marine			

Table S2: Keyword list of global freshwater phytoplankton

Id	Keyword	Occurrences	Total link strength
207	Microalgae	12	49
142	Flow cytometry	7	29
245	Oxidative stress	7	30
273	Phytoplankton	7	35
214	<i>Microcystis aeruginosa</i>	6	24
7	Algae	5	23
29	Antioxidant enzymes	4	15
101	Cyanobacteria	4	17
196	Lipids	4	18
264	Photosynthesis	4	21
339	Toxicity	4	19
30	Antioxidants	3	12
42	Biodiesel	3	13
44	Biofuel	3	12
48	Biomass	3	13
80	<i>Chlorella vulgaris</i>	3	14
106	Cytotoxicity	3	12
155	Growth	3	11
194	Lipid peroxidation	3	15
206	Microalga	3	12
247	Pam fluorometry	3	15
298	<i>Raphidocelis subcapitata</i>	3	14
302	Ros	3	12
349	Ultraviolet radiation	3	16
12	Allelochemicals	2	9
45	Biofuels	2	9
47	Biomarkers	2	9
65	Catalase	2	14
68	Cell density	2	8
76	<i>Chlorella</i>	2	10
88	Chlorophytes	2	10
125	Emerging pollutants	2	8
138	Fatty acids	2	9
144	Fourier transform infrared spectroscopy	2	9
148	Freshwater phytoplankton	2	11
170	Hydrogen peroxide	2	14
187	Lipid	2	8
190	Lipid classes	2	9
209	Microcystin	2	11
211	Microcystins	2	9
213	<i>Microcystis</i>	2	11
218	Mixotrophy	2	8
239	Nutrient limitation	2	11
272	Physiological response	2	7
333	Temperature	2	10
1	18s rdna	1	4
2	3-ketoacyl-acp synthase	1	6
3	Acclimation	1	5
4	Acidophilic microalgae	1	5

Id	Keyword	Occurrences	Total link strength
5	Actinomycete metabolite	1	4
6	Adaptation	1	3
8	Algal bloom	1	3
9	Algal growth	1	4
10	Algal model	1	4
11	Alkaline lake	1	7
13	Allelopathic effect	1	5
14	Allelopathy	1	4
15	Amazon	1	4
16	Amazonia	1	3
17	Ammonium	1	8
18	Anabaena	1	4
19	<i>Anabaena</i> sp. Pcc 7120	1	6
20	Anatoxin-a	1	5
21	Antarctica	1	4
22	Antibiotic	1	5
23	Antibiotics	1	4
24	Antimicrobial	1	4
25	Antioxidant defense system	1	4
26	Antioxidant enzymes	1	3
27	Antioxidant enzyme	1	5
28	Antioxidant enzyme activity	1	5
31	<i>Aphanothece stagnina</i>	1	9
32	Aquaculture	1	4
33	Aquatic ecosystem	1	4
34	Artemisinin	1	4
35	Associated bacteria	1	4
36	Autotrophy	1	4
37	Azithromycin	1	5
38	<i>Bacillus okhensis</i>	1	4
39	Bacteria	1	4
40	Biochemical compounds	1	4
41	Biodegradation	1	4
43	Biodiversity	1	4
46	Biomarker	1	4
49	Biomolecules	1	5
50	Biophysiological analyzes	1	5
51	Biotechnology	1	3
52	Biovolume	1	3
53	Bisphenol a	1	4
54	Bottled waters	1	5
55	<i>Brachionus calyciflorus</i>	1	5
56	Butyl xanthate	1	4
57	C-allocation	1	6
58	Cadmium	1	9
59	Calcium	1	4
60	Calvin cycle	1	5
61	Carbohydrates	1	4
62	Carbon allocation	1	5
63	Carbon dioxide	1	5

Id	Keyword	Occurrences	Total link strength
64	Caspase-3-like activity	1	5
66	Cell cycle	1	4
67	Cell death	1	6
69	Cell microstructure	1	5
70	Cell size	1	4
71	Cell staining	1	6
72	Cell surface	1	5
73	Cellular morphology	1	4
74	<i>Ceratophyllum demersum</i>	1	5
75	<i>Chlamydomonas reinhardtii</i>	1	5
77	<i>Chlorella pyrenoidosa</i>	1	5
78	<i>Chlorella sorokiniana</i>	1	4
79	<i>Chlorella</i> strains	1	3
81	<i>Chlorella vulgaris</i> microalgae	1	2
82	<i>Chlorococcum</i> sp.	1	5
83	Chlorophyceae	1	5
84	Chlorophyll	1	4
85	Chlorophyll a	1	5
86	Chlorophyll content	1	4
87	Chlorophyll fluorescence	1	5
89	Chromium	1	4
90	Cladocerans	1	4
91	Co(2) fixation	1	3
92	Co-culture	1	4
93	Colony formation	1	4
94	Combined pollution	1	4
95	Commercialization	1	5
96	Community assembly	1	5
97	Compositae	1	4
98	Contemporary selection	1	5
99	Cultivation strategy	1	4
100	Culture	1	4
102	Cyanobacteria bloom	1	7
103	Cyanotoxins	1	4
104	Cyclic electron flow	1	4
105	Cysteine proteinase	1	5
107	Cytotoxicity test	1	4
108	Dangerous chemical	1	4
109	Diacylglycerol:acyl-coa acyltransferase	1	6
110	Diatoms	1	5
111	Diatoxanthin	1	5
112	Differential sensivity	1	4
113	Digestive enzyme activity	1	5
114	Dispersal limitation	1	5
115	Dissolved organic matter	1	8
116	Dna fragment	1	5
117	<i>Dolichospermum affine</i>	1	4
118	Drug synergism	1	4
119	Dynamic filter	1	5
120	Ecotoxicological effects	1	5

Id	Keyword	Occurrences	Total link strength
121	Edaphic	1	4
122	Edxrma	1	5
123	El niño	1	8
124	Electrolyte leakage	1	6
126	Energy reserves	1	4
127	Environmental risk assessment	1	4
128	Episodic events	1	4
129	<i>Euglena pisciformis</i> aew501	1	4
130	Euryhaline	1	6
131	Eutrophication	1	7
132	Evolutionary genetics	1	2
133	<i>Exiguobacterium aurantiacum</i>	1	4
134	Exopolysaccharide production	1	4
135	Experimental evolution	1	2
136	Extracellular polysaccharides	1	4
137	Fatty acid	1	4
139	Fenitrothion	1	4
140	Field experiment	1	5
141	Flood and drought	1	3
143	Food live	1	4
145	Fractionated photosynthesis	1	4
146	Frap	1	4
147	Freshwater	1	4
149	Ftir	1	5
150	Galactolipids	1	5
151	Gamma irradiation stress	1	2
152	Genome	1	3
153	Graphene oxide	1	3
154	Green algae	1	5
156	Growth rate	1	3
157	<i>Halomonas</i> sp.	1	4
158	Harmful algal blooms	1	4
159	Heavy metal	1	4
160	Heavy metals	1	4
161	Herbicide	1	5
162	Herbicides	1	6
163	Heterotrophic protists	1	4
164	High temperature tolerance	1	5
165	High trophic level	1	4
166	Humic acid	1	4
167	Humic acids	1	8
168	Hurricanes	1	8
169	Hybrid algal cultivation system	1	6
171	Hypersalinity	1	8
172	Ice cover	1	4
173	Impact assessment	1	4
174	In situ dna methylation	1	4
175	Independent action	1	5
176	<i>Indibacter alkaliphilus</i>	1	4
177	Indicator values	1	6

Id	Keyword	Occurrences	Total link strength
178	Inhibitory mechanisms	1	4
179	Ionizing irradiation stress	1	4
180	Iron	1	4
181	Irradiance	1	6
182	<i>Isochrysis galbana</i>	1	5
183	Lake ecology	1	7
184	Lead	1	4
185	Leupeptin	1	5
186	Limnetic	1	6
188	Lipid accumulation	1	3
189	Lipid biosynthesis	1	4
191	Lipid classes pam fluorometry	1	2
192	Lipid droplets	1	5
193	Lipid oxidation	1	4
195	Lipid production	1	4
197	Luteolin	1	5
198	<i>M. Aeruginosa</i>	1	5
199	Macrophyte restoration	1	3
200	Massive blooms	1	6
201	Mechanistic effects	1	5
202	Membrane	1	5
203	Metabolic compounds	1	4
204	Metabolism	1	2
205	Metallic nanoparticles	1	4
208	Microalgae cultivation	1	6
210	Microcystin toxin	1	3
212	Microcystins production	1	4
215	<i>Microcystis aeruginosa</i> inhibition	1	4
216	Microplastics	1	4
217	Micropollutants	1	5
219	Mode of toxic action	1	5
220	Moderate high-temperature stress	1	3
221	Modified clay	1	4
222	Modified culture medium	1	4
223	<i>Moina sp.</i>	1	4
224	Morphological features	1	3
225	Mortality	1	6
226	Multiple environmental stressors	1	5
227	Multiple stressor effects	1	5
228	Municipal wastewater influent	1	3
229	<i>Mychonastes</i>	1	3
230	<i>Myriophyllum spicatum</i>	1	5
231	Nanaomycin a methyl ester (name)	1	4
232	Nanoplastics	1	4
233	Neotropical	1	6
234	Nickel	1	4
235	Nile red	1	4
236	Nitrogen limitation	1	4
237	Nonphotochemical quenching	1	4
238	Nutrient content	1	5

Id	Keyword	Occurrences	Total link strength
240	Open pond.	1	6
241	Organelle	1	5
242	Organic nutrients	1	8
243	Over-compensatory growth	1	3
244	Oxidative damage	1	5
246	Oxidative stress status	1	5
248	Paraquat	1	5
249	Particulate organic carbon	1	4
250	Pbr	1	6
251	Peroxidase	1	9
252	Pesticides phytoplankton	1	2
253	Ph	1	8
254	<i>Phaeodactylum tricornutum</i>	1	5
255	Pharmaceutical and personal care products (ppcps)	1	5
256	Phenanthrene	1	4
257	Phenotypic plasticity	1	4
258	Phosphorus quota	1	5
259	Photochemical efficiency	1	5
260	Photoinhibition	1	5
261	Photoinhibitory light	1	9
262	Photoprotection	1	5
263	Photorespiration	1	9
265	Photosynthetic	1	4
266	Photosynthetic activity	1	4
267	Photosynthetic efficiency	1	4
268	Photosynthetic electron transport	1	9
269	Photosystem i	1	4
270	Phthalate esters	1	4
271	Physiological characteristics	1	3
274	Phytoplankton communities	1	5
275	Phytoplankton species	1	4
276	Picocyanobacteria	1	8
277	Picoeukaryotes	1	4
278	Picophytoplankton	1	3
279	Pigments	1	4
280	Plankton	1	4
281	Plastoquinone	1	4
282	Pollution	1	4
283	Polyethylene glycol	1	2
284	Pomegranate peel	1	5
285	Poultry manure leachate	1	4
286	Primary producer	1	4
287	Primary production	1	4
288	Principal component analysis	1	4
289	Priority pollutants	1	4
290	Programmed cell death	1	5
291	Protozoal protein	1	5
292	<i>Pseudokirchneriella subcapitata</i>	1	5
293	Psychrophile	1	4
294	Psychrophiles	1	5

Id	Keyword	Occurrences	Total link strength
295	Pyrosequencing	1	5
296	Quercetin	1	5
297	Quorum sensing molecules	1	4
299	Rbcl	1	5
300	Recovery capability	1	4
301	Removal	1	4
303	Ros/no	1	5
304	Salinity	1	4
305	Salt stress	1	5
306	Scaling law	1	5
307	<i>Scenedesmus</i>	1	4
308	<i>Scenedesmus acutus</i>	1	4
309	<i>Scenedesmus obliquus</i>	1	5
310	<i>Scenedesmus</i> . Xray microanalysis	1	5
311	Seawater	1	4
312	Sediments	1	4
313	Sherbicide tolerance	1	6
314	Silica	1	5
315	Simetryn	1	6
316	Single-walled carbon nanotubes	1	3
317	Size abundance relationship	1	5
318	Sodium bicarbonate	1	5
319	Species identification	1	4
320	Species richness	1	4
321	Spectral fluorescence	1	5
322	Stable isotopes	1	5
323	Starch	1	6
324	Storage	1	5
325	Sulfur deficiency	1	6
326	Superoxide dismutase	1	9
327	Superoxide radical	1	9
328	Superpro designer	1	6
329	Synchrotron-based fourier transform infrared spectromicroscopy	1	5
330	<i>Synechococcus</i>	1	4
331	Tag	1	4
332	Tem	1	4
334	<i>Tetraselmis suecica</i>	1	5
335	Thiamine	1	4
336	Tocopherol	1	5
337	Tolerant strain	1	4
338	Toxicities	1	3
340	Triacylglycerols	1	6
341	Triazine	1	6
342	Triclosan	1	5
343	Triglycerides	1	3
344	Turbulence	1	4
345	Two-stage cultivation	1	4
346	Ultrasound	1	4
347	Ultrastructural changes	1	4
348	Ultrastructure	1	3

Id	Keyword	Occurrences	Total link strength
350	Unsaturation	1	6
351	Uptake	1	5
352	Uv-filters	1	4
353	Uvr	1	5
354	<i>Vallisneria asiatica</i>	1	3
355	Variable fluorescence	1	5
356	Wastewater	1	6
357	Water quality	1	6
358	Water-soluble species in pm (2.5)	1	5
359	Winter	1	4
360	<i>Xanthomonas sp</i>	1	4
361	Mft-ir	1	5

Keywords are ordered according to co-occurrence from largest to smallest.

Table S3: Keyword list freshwater phytoplankton with mention of eutrophication process

id	Keyword	occurrences	total link strength
53	<i>Microcystis aeruginosa</i>	4	17
3	Allelochemicals	2	9
25	Cyanobacteria	2	9
49	Microalgae	2	8
1	Actinomycete metabolite	1	4
2	Adaptation	1	3
4	Allelopathic effect	1	5
5	Antioxidant enzymes	1	3
6	Antioxidant enzyme activity	1	5
7	Antioxidant enzymes	1	4
8	Artemisinin	1	4
9	Associated bacteria	1	4
10	Autotrophy	1	4
11	<i>Bacillus okhensis</i>	1	4
12	Biodegradation	1	4
13	Biomass	1	4
14	Bisphenol a	1	4
15	<i>Brachionus calyciflorus</i>	1	5
16	Carbohydrates	1	4
17	Carbon allocation	1	5
18	Caspase-3-like activity	1	5
19	Catalase	1	5
20	Cell cycle	1	4
21	Cell density	1	4
22	<i>Chlorella sorokiniana</i>	1	4
23	Colony formation	1	4
24	Compositae	1	4
26	Cyanotoxins	1	4
27	Diatoxanthin	1	5
28	Digestive enzyme activity	1	5
29	Edxрма	1	5
30	Episodic events	1	4
31	<i>Exiguobacterium aurantiacum</i>	1	4
32	Exopolysaccharide production	1	4
33	Extracellular polysaccharides	1	4
34	Fatty acids	1	4
35	Flow cytometry	1	4
36	Fourier transform infrared spectroscopy	1	5
37	Freshwater phytoplankton	1	5
38	Ftir	1	5

id	Keyword	occurrences	total link strength
39	Galactolipids	1	5
40	Genome	1	3
41	<i>Halomonas sp.</i>	1	4
42	Heavy metal	1	4
43	High trophic level	1	4
44	<i>Indibacter alkaliphilus</i>	1	4
45	Inhibitory mechanisms	1	4
46	Luteolin	1	5
47	<i>M. Aeruginosa</i>	1	5
48	Metabolic compounds	1	4
50	Microcystin	1	4
51	Microcystins	1	5
52	<i>Microcystis</i>	1	4
54	<i>Microcystis aeruginosa</i> inhibition	1	4
55	Mixotrophy	1	4
56	Moderate high-temperature stress	1	3
57	<i>Mychonastes</i>	1	3
58	<i>Myriophyllum spicatum</i>	1	5
59	Nanaomycin a methyl ester (name)	1	4
60	Nutrient content	1	5
61	Over-compensatory growth	1	3
62	Oxidative damage	1	5
63	Particulate organic carbon	1	4
64	Phenotypic plasticity	1	4
65	Phosphorus quota	1	5
66	Photoinhibition	1	5
67	Photosynthetic efficiency	1	4
68	Physiological response	1	4
69	Phytoplankton	1	4
70	Phytoplankton species	1	4
71	Picophytoplankton	1	3
72	Pomegranate peel	1	5
73	Poultry manure leachate	1	4
74	Programmed cell death	1	5
75	Psychrophiles	1	5
76	Quercetin	1	5
77	Ros/no	1	5
78	Salinity	1	4
79	<i>Scenedesmus</i> . Xray microanalysis	1	5
80	Spectral fluorescence	1	5
81	Stable isotopes	1	5

id	Keyword	occurrences	total link strength
82	<i>Synechococcus</i>	1	4
83	Temperature	1	4
84	Thiamine	1	4
85	Ultraviolet radiation	1	5
86	Uvr	1	5
87	Variable fluorescence	1	5
88	<i>Xanthomonas sp.</i>	1	4

Keywords are ordered according to co-occurrence from largest to smallest.

Table S4. Freshwater phytoplankton studies that mention the eutrophication process and some approach to lipid analysis

Species	Climate	Method	Registered lipid molecules	Result	References
<i>Borghiella dodgei</i>	Dfb	Liquid chromatography–mass spectrometry	Digalactosyldiacylglycerol Monogalactosyldiacylglycerols	In UVR-exposed cells, the galactolipid content was higher and was associated with an increase in monogalactosyl-diacylglycerols.	42
<i>Chlamydomonas mexicana</i> . <i>Chlorella vulgaris</i>	Dfa	Gas chromatography with a flame ionization detector	Capric acid (C10:0) Myristic acid (C14:0) Palmitic acid (C16:0) Palmitoleic acid (C16:1) Oleic acid (C18:1) Linoleic acid (C18:2) Linolenic acid (C18:3) Arachidic acids (C20:0)	Polyunsaturated fatty acid levels increased with BPA concentration.	43
<i>Microcystis aeruginosa</i>	Cfa	MDA content was measured using the thiobarbituric acid (TBA) reaction by Malondialdehyde assay kit	They report the lipid peroxidation level	Higher concentration of single-walled carbon nanotubes increases lipid peroxidation.	44
<i>Mychonastes homosphaera</i>	Cfa	Genome sequences in the KEGG database	Genes related to the fatty acid biosynthesis pathways: ACC, MAT, KAS3, KAR, HD, EAR, PAH, OAH, KAS1, KAS2 and TCA (glycerolipid) metabolism pathways: GK, GPAT, AGPAT, PP, DGAT, PDAT, TAG, DGAT1, DGAT2	The species have the potential for biodiesel production by synthesising long chain unsaturated fatty acids.	30
<i>Scenedesmus subspicatus</i>	Cfb	Synchrotron-based Fourier transform infrared (FTIR) microspectroscopy	Groups of esters associated with lipids and fatty acids were recorded, but without distinguishing specific lipids	Under phosphorus-limited conditions stress promotes a shift in carbon allocation, increasing the proportion of lipids and carbohydrates.	45

Table S5: Keyword list of tropical freshwater phytoplankton.

Id	Keyword	Occurrences	Total link strength
34	Microalgae	5	19
12	Biomass	2	7
16	Cell density	2	8
19	<i>Chlorella vulgaris</i>	2	10
1	18s rdna	1	4
2	Amazon	1	4
3	Amazonia	1	3
4	Antimicrobial	1	4
5	Antioxidant enzymes	1	4
6	Antioxidants	1	4
7	Aquaculture	1	4
8	Autotrophy	1	4
9	Biodiesel	1	3
10	Biodiversity	1	4
11	Biofuels	1	3
13	Biotechnology	1	3
14	Biovolume	1	3
15	Cell cycle	1	4
17	<i>Chlorella sorokiniana</i>	1	4
18	<i>Chlorella strains</i>	1	3
20	Chlorophyll	1	4
21	Cladocerans	1	4
22	CO ₂ fixation	1	3
23	Culture	1	4
24	Drug synergism	1	4
25	Edaphic	1	4
26	Exopolysaccharide production	1	4
27	Flood and drought	1	3
28	Food live	1	4
29	Freshwater	1	4
30	Growth rate	1	3
31	Heavy metal	1	4
32	Hybrid algal cultivation system	1	6
33	Lipid accumulation	1	3
35	Microalgae cultivation	1	6
36	Mixotrophy	1	4
37	<i>Moina sp.</i>	1	4
38	Morphological features	1	3
39	Municipal wastewater influent	1	3
40	Nile red	1	4
41	Open pond	1	6
42	Pbr	1	6
43	Phenotypic plasticity	1	4
44	Photosynthetic efficiency	1	4
45	Phytoplankton	1	3
46	Pigments	1	4
47	Plankton	1	4
48	Poultry manure leachate	1	4
49	Ros	1	4

Id	Keyword	Occurrences	Total link strength
50	Salinity	1	4
51	Species identification	1	4
52	Species richness	1	4
53	Superpro designer	1	6
54	<i>Synechococcus</i>	1	4
55	Triglycerides	1	3
56	Wastewater	1	6

Keywords are ordered according to co-occurrence from largest to smallest.