

# Kateřina Biřovř;

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

4,780  
citations

236925

25  
h-index

144013

57  
g-index

68  
all docs

68  
docs citations

68  
times ranked

6022  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assaying Cyclin-Dependent Kinase Activity in Synchronized Algal Cultures. <i>Methods in Molecular Biology</i> , 2022, 2382, 73-88.	0.9	1
2	Analysis of Commitment Point Attainment in Algae Dividing by Multiple Fission. <i>Methods in Molecular Biology</i> , 2022, 2382, 89-101.	0.9	2
3	Improving microalgae for biotechnology – From genetics to synthetic biology – Moving forward but not there yet. <i>Biotechnology Advances</i> , 2022, 58, 107885.	11.7	20
4	The Effect of Variable Light Source and Light Intensity on the Growth of Three Algal Species. <i>Cells</i> , 2022, 11, 1293.	4.1	20
5	Comparing Biochemical and Raman Microscopy Analyses of Starch, Lipids, Polyphosphate, and Guanine Pools during the Cell Cycle of <i>Desmodesmus quadricauda</i> . <i>Cells</i> , 2021, 10, 62.	4.1	11
6	A tribute to Vilém Zachleder (1944–2020). <i>Journal of Experimental Botany</i> , 2021, 72, 2273-2274.	4.8	0
7	Exploring Mycosporine-Like Amino Acids (MAAs) as Safe and Natural Protective Agents against UV-Induced Skin Damage. <i>Antioxidants</i> , 2021, 10, 683.	5.1	29
8	Starch Production in <i>Chlamydomonas reinhardtii</i> through Supraoptimal Temperature in a Pilot-Scale Photobioreactor. <i>Cells</i> , 2021, 10, 1084.	4.1	15
9	Growth under Different Trophic Regimes and Synchronization of the Red Microalga <i>Galdieria sulphuraria</i> . <i>Biomolecules</i> , 2021, 11, 939.	4.0	9
10	To Divide or Not to Divide? How Deuterium Affects Growth and Division of <i>Chlamydomonas reinhardtii</i> . <i>Biomolecules</i> , 2021, 11, 861.	4.0	2
11	Characterization of Growth and Cell Cycle Events Affected by Light Intensity in the Green Alga <i>Parachlorella kessleri</i> : A New Model for Cell Cycle Research. <i>Biomolecules</i> , 2021, 11, 891.	4.0	10
12	Supra-Optimal Temperature: An Efficient Approach for Overaccumulation of Starch in the Green Alga <i>Parachlorella kessleri</i> . <i>Cells</i> , 2021, 10, 1806.	4.1	9
13	Diclofenac Alters the Cell Cycle Progression of the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Cells</i> , 2021, 10, 1936.	4.1	4
14	The biosynthesis of phospholipids is linked to the cell cycle in a model eukaryote. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158965.	2.4	4
15	Distribution of cycle threshold values in RT-qPCR tests during the autumn 2020 peak of the COVID-19 pandemic in the Czech Republic. <i>Access Microbiology</i> , 2021, 3, 000263.	0.5	0
16	Response of the Green Alga <i>Chlamydomonas reinhardtii</i> to the DNA Damaging Agent Zeocin. <i>Cells</i> , 2019, 8, 735.	4.1	22
17	Deuterium and its impact on living organisms. <i>Folia Microbiologica</i> , 2019, 64, 673-681.	2.3	23
18	Growth and the cell cycle in green algae dividing by multiple fission. <i>Folia Microbiologica</i> , 2019, 64, 663-672.	2.3	11

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19	Cell Cycle Arrest by Supraoptimal Temperature in the Alga <i>Chlamydomonas reinhardtii</i> . <i>Cells</i> , 2019, 8, 1237.	4.1	23
20	Effects of cyclin-dependent kinase activity on the coordination of growth and the cell cycle in green algae at different temperatures. <i>Journal of Experimental Botany</i> , 2019, 70, 845-858.	4.8	18
21	Bio-mining of Lanthanides from Red Mud by Green Microalgae. <i>Molecules</i> , 2019, 24, 1356.	3.8	24
22	Early Evolution of the Mitogen-Activated Protein Kinase Family in the Plant Kingdom. <i>Scientific Reports</i> , 2019, 9, 4094.	3.3	10
23	The <i>Parachlorella</i> Genome and Transcriptome Endorse Active RWP-RK, Meiosis and Flagellar Genes in Trebouxiophycean Algae. <i>Cytologia</i> , 2019, 84, 323-330.	0.6	6
24	Stable isotope compounds - production, detection, and application. <i>Biotechnology Advances</i> , 2018, 36, 784-797.	11.7	41
25	Selective bioaccumulation of rubidium by microalgae from industrial wastewater containing rubidium and lithium. <i>Journal of Applied Phycology</i> , 2018, 30, 461-467.	2.8	5
26	Comparison of lipid productivity of <i>Parachlorella kessleri</i> heavy-ion beam irradiation mutant PK4 in laboratory and 150-L mass bioreactor, identification and characterization of its genetic variation. <i>Algal Research</i> , 2018, 35, 416-426.	4.6	27
27	The effect of lanthanides on photosynthesis, growth, and chlorophyll profile of the green alga <i>Desmodesmus quadricauda</i> . <i>Photosynthesis Research</i> , 2016, 130, 335-346.	2.9	32
28	Deciphering the relationship among phosphate dynamics, electron-dense body and lipid accumulation in the green alga <i>Parachlorella kessleri</i> . <i>Scientific Reports</i> , 2016, 6, 25731.	3.3	53
29	Highly efficient lipid production in the green alga <i>Parachlorella kessleri</i> : draft genome and transcriptome endorsed by whole-cell 3D ultrastructure. <i>Biotechnology for Biofuels</i> , 2016, 9, 13.	6.2	56
30	The Cell Cycle of Microalgae. , 2016, , 3-46.		19
31	Synchronization of Green Algae by Light and Dark Regimes for Cell Cycle and Cell Division Studies. <i>Methods in Molecular Biology</i> , 2016, 1370, 3-16.	0.9	18
32	Improving microalgae for biotechnology – From genetics to synthetic biology. <i>Biotechnology Advances</i> , 2015, 33, 1194-1203.	11.7	106
33	Evidences of oxidative stress during hydrogen photoproduction in sulfur-deprived cultures of <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10410-10417.	7.1	11
34	Use of lanthanides to alleviate the effects of metal ion-deficiency in <i>Desmodesmus quadricauda</i> (Sphaeropleales, Chlorophyta). <i>Frontiers in Microbiology</i> , 2015, 6, 2.	3.5	59
35	Accumulation of energy reserves in algae: From cell cycles to biotechnological applications. <i>Biotechnology Advances</i> , 2015, 33, 1204-1218.	11.7	190
36	Beneficial or Toxic Effects of Selenium on Green Algae and Their Application as Nutrient Supplements or Bio-remediators. , 2015, , 315-338.		3

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37	Cell-cycle regulation in green algae dividing by multiple fission. <i>Journal of Experimental Botany</i> , 2014, 65, 2585-2602.	4.8	139
38	CYCP2;1 integrates genetic and nutritional information to promote meristem cell division in <i>Arabidopsis</i> . <i>Developmental Biology</i> , 2014, 393, 160-170.	2.0	25
39	The microalga <i>Parachlorella kessleri</i> – A novel highly efficient lipid producer. <i>Biotechnology and Bioengineering</i> , 2013, 110, 97-107.	3.3	102
40	Completion of cell division is associated with maximum telomerase activity in naturally synchronized cultures of the green alga <i>Desmodesmus quadricauda</i> . <i>FEBS Letters</i> , 2013, 587, 743-748.	2.8	8
41	Relationship between starch and lipid accumulation induced by nutrient depletion and replenishment in the microalga <i>Parachlorella kessleri</i> . <i>Bioresource Technology</i> , 2013, 144, 268-274.	9.6	114
42	Glutathione peroxidase activity in the selenium-treated alga <i>Scenedesmus quadricauda</i> . <i>Aquatic Toxicology</i> , 2011, 102, 87-94.	4.0	63
43	<i>Chlamydomonas reinhardtii</i> : duration of its cell cycle and phases at growth rates affected by light intensity. <i>Planta</i> , 2011, 233, 75-86.	3.2	65
44	<i>Chlamydomonas reinhardtii</i> : duration of its cell cycle and phases at growth rates affected by temperature. <i>Planta</i> , 2011, 234, 599-608.	3.2	59
45	Microalgae – novel highly efficient starch producers. <i>Biotechnology and Bioengineering</i> , 2011, 108, 766-776.	3.3	380
46	DNA Damage during G2 Phase Does Not Affect Cell Cycle Progression of the Green Alga <i>Scenedesmus quadricauda</i> . <i>PLoS ONE</i> , 2011, 6, e19626.	2.5	16
47	Regulation of the <i>Chlamydomonas</i> Cell Cycle by a Stable, Chromatin-Associated Retinoblastoma Tumor Suppressor Complex. <i>Plant Cell</i> , 2010, 22, 3331-3347.	6.6	67
48	Bioaccumulation and toxicity of selenium compounds in the green alga <i>Scenedesmus quadricauda</i> . <i>BMC Plant Biology</i> , 2009, 9, 58.	3.6	83
49	CDKA and CDKB kinases from <i>Chlamydomonas reinhardtii</i> are able to complement <i>cdc28</i> temperature-sensitive mutants of <i>Saccharomyces cerevisiae</i> . <i>Protoplasma</i> , 2008, 232, 183-191.	2.1	12
50	Cell Growth Control in an Algal Model. , 2008, , 351-373.		0
51	Accumulation, Activity and Localization of Cell Cycle Regulatory Proteins and the Chloroplast Division Protein FtsZ in the Alga <i>Scenedesmus quadricauda</i> under Inhibition of Nuclear DNA Replication. <i>Plant and Cell Physiology</i> , 2008, 49, 1805-1817.	3.1	10
52	The <i>Chlamydomonas</i> Genome Reveals the Evolution of Key Animal and Plant Functions. <i>Science</i> , 2007, 318, 245-250.	12.6	2,354
53	Diverse phosphoregulatory mechanisms controlling cyclin-dependent kinase-activating kinases in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2006, 47, 701-710x.	5.7	54
54	Genome-Wide Annotation and Expression Profiling of Cell Cycle Regulatory Genes in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2005, 137, 475-491.	4.8	131

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55	The Plant-Specific Kinase CDK;1 Is Involved in Activating Phosphorylation of Cyclin-Dependent Kinase-Activating Kinases in Arabidopsis. <i>Plant Cell</i> , 2004, 16, 2954-2966.	6.6	70
56	Effect of red and blue light on the timing of cyclin-dependent kinase activity and the timing of cell division in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology and Biochemistry</i> , 2004, 42, 341-348.	5.8	41
57	Cell growth and division processes are differentially sensitive to cadmium in <i>Scenedesmus quadricauda</i> . <i>Folia Microbiologica</i> , 2003, 48, 805-816.	2.3	24
58	The alga <i>Chlamydomonas reinhardtii</i> UVS11 gene is responsible for cell division delay and temporal decrease in histone H1 kinase activity caused by UV irradiation. <i>DNA Repair</i> , 2003, 2, 737-750.	2.8	10
59	Variety of cell cycle patterns in the alga <i>Scenedesmus quadricauda</i> (Chlorophyta) as revealed by application of illumination regimes and inhibitors. <i>European Journal of Phycology</i> , 2002, 37, 361-371.	2.0	37
60	Factors affecting the mating competence in the unicellular green alga <i>Chlamydomonas eugametos</i> (Volvocales). <i>Folia Microbiologica</i> , 2002, 47, 69-72.	2.3	2
61	Plectin-like proteins are present in cells of <i>Chlamydomonas eugametos</i> (Volvocales). <i>Folia Microbiologica</i> , 2002, 47, 535-539.	2.3	1
62	The activity of total histone H1 kinases is related to growth and commitment points while the p13suc1-bound kinase activity relates to mitoses in the alga <i>Scenedesmus quadricauda</i> . <i>Plant Physiology and Biochemistry</i> , 2000, 38, 755-764.	5.8	20