

Alexei E Solovchenko

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139
papers

3,989
citations

34
h-index

59
g-index

148
ext. papers

4,693
ext. citations

3.7
avg, IF

5.97
L-index

#	Paper	IF	Citations
139	Approaches to rapid screening of pharmaceutical xenobiotic effects on microalgae via monitoring of photosynthetic apparatus condition. <i>Journal of Applied Phycology</i> , 2022 , 34, 353-361	3.2	3
138	Cosmeceuticals from Macrophyte Algae 2022 , 559-577		
137	Differential Responses to UV-A Stress Recorded in Carotenogenic Microalgae <i>Haematococcus rubicundus</i> , <i>Bracteacoccus aggregatus</i> , and <i>Deasonia</i> sp.. <i>Plants</i> , 2022 , 11, 1431	4.5	1
136	Biotechnological Applications of Immobilized Microalgae. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 193-220	0.8	1
135	Call for contributions to the Special Issue on the 9th Congress of the Russian Photobiological Society held in Shepsi, Krasnodar region, Russia, on September 12-19, 2021.. <i>Biophysical Reviews</i> , 2021 , 13, 815-816	3.7	0
134	Essential Role of Potassium in Apple and Its Implications for Management of Orchard Fertilization.. <i>Plants</i> , 2021 , 10,	4.5	3
133	Comparison of the Non-Invasive Monitoring of Fresh-Cut Lettuce Condition with Imaging Reflectance Hyperspectrometer and Imaging PAM-Fluorimeter. <i>Photonics</i> , 2021 , 8, 425	2.2	1
132	Marine and freshwater microalgae as a sustainable source of cosmeceuticals. <i>Marine Biological Journal</i> , 2021 , 6, 67-81	0.6	2
131	Physiological foundations of spectral imaging-based monitoring of apple fruit ripening. <i>Acta Horticulturae</i> , 2021 , 419-428	0.3	1
130	Bio-inspired materials for nutrient biocapture from wastewater: Microalgal cells immobilized on chitosan-based carriers. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101774	6.7	7
129	The physiology of astaxanthin production by carotenogenic microalgae 2021 , 19-35		0
128	The Dynamics of the Bacterial Community of the Photobioreactor-Cultivated Green Microalga during Stress-Induced Astaxanthin Accumulation. <i>Biology</i> , 2021 , 10,	4.9	3
127	Linking Tissue Damage to Hyperspectral Reflectance for Non-Invasive Monitoring of Apple Fruit in Orchards. <i>Plants</i> , 2021 , 10,	4.5	2
126	An insight into spectral composition of light available for photosynthesis via remotely assessed absorption coefficient at leaf and canopy levels. <i>Photosynthesis Research</i> , 2021 , 1	3.7	1
125	Phosphorus biofertilizer from microalgae 2021 , 57-68		
124	The Effect of Chilling on the Photosynthetic Apparatus of Microalga <i>Lobosphaera incisa</i> IPPAS C-2047.. <i>Biochemistry (Moscow)</i> , 2021 , 86, 1590-1598	2.9	1
123	Nanoparticles in the Aquatic Environment: The Risks Associated with Them and the Possibilities of Their Mitigation with Microalgae. <i>Moscow University Biological Sciences Bulletin</i> , 2021 , 76, 165-174	0.5	

122	Guanine, a high-capacity and rapid-turnover nitrogen reserve in microalgal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 32722-32730	11.5	13
121	Recent developments in microalgal conversion of organic-enriched waste streams. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020 , 24, 61-66	7.9	7
120	Spectrum of Light as a Determinant of Plant Functioning: A Historical Perspective. <i>Life</i> , 2020 , 10,	3	1
119	Effect of nitrogen source on the growth, lipid, and valuable carotenoid production in the green microalga <i>Chromochloris zofingiensis</i> . <i>Journal of Applied Phycology</i> , 2020 , 32, 923-935	3.2	23
118	Special issue in honour of Prof. Reto J. Strasser – Gradual changes in the photosynthetic apparatus triggered by nitrogen depletion during microalgae cultivation in photobioreactor. <i>Photosynthetica</i> , 2020 , 58, 443-451	2.2	6
117	Light absorption and scattering by high light-tolerant, fast-growing <i>Chlorella vulgaris</i> IPPAS C-1 cells. <i>Algal Research</i> , 2020 , 49, 101881	5	0
116	Soil fertility management in apple orchard with microbial biofertilizers. <i>E3S Web of Conferences</i> , 2020 , 222, 03020	0.5	5
115	Photosynthetic hydrogen production as acclimation mechanism in nutrient-deprived <i>Chlamydomonas</i> . <i>Algal Research</i> , 2020 , 49, 101951	5	9
114	Natural Communities of Carotenogenic Chlorophyte <i>Haematococcus lacustris</i> and Bacteria from the White Sea Coastal Rock Ponds. <i>Microbial Ecology</i> , 2020 , 79, 785-800	4.4	7
113	Foliar absorption coefficient derived from reflectance spectra: A gauge of the efficiency of in situ light-capture by different pigment groups. <i>Journal of Plant Physiology</i> , 2020 , 254, 153277	3.6	11
112	Lipidome Remodeling and Autophagic Respose in the Arachidonic-Acid-Rich Microalga Under Nitrogen and Phosphorous Deprivation. <i>Frontiers in Plant Science</i> , 2020 , 11, 614846	6.2	7
111	Phosphorus Feast and Famine in Cyanobacteria: Is Luxury Uptake of the Nutrient Just a Consequence of Acclimation to Its Shortage?. <i>Cells</i> , 2020 , 9,	7.9	7
110	Phosphorus starvation and luxury uptake in green microalgae revisited. <i>Algal Research</i> , 2019 , 43, 101651	5	34
109	Long-Chain Polyunsaturated Fatty Acids in the Green Microalga <i>Lobosphaera incisa</i> Contribute to Tolerance to Abiotic Stresses. <i>Plant and Cell Physiology</i> , 2019 , 60, 1205-1223	4.9	7
108	Non-photochemical quenching in the cells of the carotenogenic chlorophyte <i>Haematococcus lacustris</i> under favorable conditions and under stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019 , 1863, 1429-1442	4	12
107	Metabolomic foundation for differential responses of lipid metabolism to nitrogen and phosphorus deprivation in an arachidonic acid-producing green microalga. <i>Plant Science</i> , 2019 , 283, 95-115	5.3	16
106	Microalgal Treatment of Alcohol Distillery Wastewater 2019 , 171-188		1
105	Stress-induced changes in the ultrastructure of the photosynthetic apparatus of green microalgae. <i>Protoplasma</i> , 2019 , 256, 261-277	3.4	8

104	Cationic penetrating antioxidants switch off Mn cluster of photosystem II in situ. <i>Photosynthesis Research</i> , 2019 , 142, 229-240	3.7	2
103	Luxury phosphorus uptake in microalgae. <i>Journal of Applied Phycology</i> , 2019 , 31, 2755-2770	3.2	52
102	Derivation of canopy light absorption coefficient from reflectance spectra. <i>Remote Sensing of Environment</i> , 2019 , 231, 111276	13.2	16
101	The effect of diverse nitrogen sources in the nutrient medium on the growth of the green microalgae <i>Chromochloris zofingiensis</i> in the batch culture. <i>Marine Biological Journal</i> , 2019 , 4, 41-52	0.6	6
100	The Effect of the Microalga <i>Chlorella vulgaris</i> Ippas C-1 Biomass Application on Yield, Biological Activity, and the Microbiome of the Soil during Bean Growing. <i>Moscow University Biological Sciences Bulletin</i> , 2019 , 74, 227-234	0.5	3
99	Ultrastructural patterns of photoacclimation and photodamage to photosynthetic algae cell under environmental stress. <i>Physiologia Plantarum</i> , 2019 , 166, 251-263	4.6	5
98	Cyanobacterial diversity in the algal bacterial consortia from Subarctic regions: new insights from the rock baths at White Sea Coast. <i>Hydrobiologia</i> , 2019 , 830, 17-31	2.4	11
97	Pigments 2019 , 225-252		6
96	Immobilization of microalgae on the surface of new cross-linked polyethylenimine-based sorbents. <i>Journal of Biotechnology</i> , 2018 , 281, 31-38	3.7	16
95	A new subarctic strain of <i>Tetrademus obliquus</i> part I: identification and fatty acid profiling. <i>Journal of Applied Phycology</i> , 2018 , 30, 2737-2750	3.2	12
94	Express Analysis of Microalgal Secondary Carotenoids by TLC and UV-Vis Spectroscopy. <i>Methods in Molecular Biology</i> , 2018 , 1852, 73-95	1.4	4
93	Noninvasive Quantification of Foliar Pigments 2018 , 135-162		
92	Reduction of photosynthetic apparatus plays a key role in survival of the microalga <i>Haematococcus pluvialis</i> (Chlorophyceae) at freezing temperatures. <i>Photosynthetica</i> , 2018 , 56, 1268-1277	2.2	10
91	Non-invasive quantification of foliar pigments: Possibilities and limitations of reflectance- and absorbance-based approaches. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 178, 537-544	6.7	26
90	A new subarctic strain of <i>Tetrademus obliquus</i> . Part II: comparative studies of CO ₂ -stress tolerance. <i>Journal of Applied Phycology</i> , 2018 , 30, 2751-2761	3.2	2
89	A new simple method for quantification and locating P and N reserves in microalgal cells based on energy-filtered transmission electron microscopy (EFTEM) elemental maps. <i>PLoS ONE</i> , 2018 , 13, e0208830	3.7	8
88	Identification and Morphological-Physiological Characterization of Astaxanthin Producer Strains of <i>Haematococcus pluvialis</i> from the Black Sea Region. <i>Applied Biochemistry and Microbiology</i> , 2018 , 54, 639-648	1.1	3
87	Possibilities of Optical Monitoring of Phosphorus Starvation in Suspensions of Microalga <i>Chlorella vulgaris</i> IPPAS C-1 (Chlorophyceae). <i>Moscow University Biological Sciences Bulletin</i> , 2018 , 73, 118-123	0.5	4

86	Multiple drivers of seasonal change in PRI: Implications for photosynthesis 2. Stand level. <i>Remote Sensing of Environment</i> , 2017 , 190, 198-206	13.2	59
85	Multiple drivers of seasonal change in PRI: Implications for photosynthesis 1. Leaf level. <i>Remote Sensing of Environment</i> , 2017 , 191, 110-116	13.2	67
84	Analysis of Photoprotection and Apparent Non-photochemical Quenching of Chlorophyll Fluorescence in Tradescantia Leaves Based on the Rate of Irradiance-Induced Changes in Optical Transparence. <i>Biochemistry (Moscow)</i> , 2017 , 82, 67-74	2.9	3
83	Carotenogenic response in photosynthetic organisms: a colorful story. <i>Photosynthesis Research</i> , 2017 , 133, 31-47	3.7	34
82	Acclimation of shade-tolerant and light-resistant Tradescantia species to growth light: chlorophyll a fluorescence, electron transport, and xanthophyll content. <i>Photosynthesis Research</i> , 2017 , 133, 87-102	3.7	12
81	Effects of CO enrichment on primary photochemistry, growth and astaxanthin accumulation in the chlorophyte Haematococcus pluvialis. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 171, 58-66	6.7	32
80	Arachidonic acid is important for efficient use of light by the microalga Lobosphaera incisa under chilling stress. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017 , 1862, 853-868	5	20
79	Raman microscopy shows that nitrogen-rich cellular inclusions in microalgae are microcrystalline guanine. <i>Algal Research</i> , 2017 , 23, 216-222	5	27
78	Immobilization of cyanobacteria and microalgae on polyethylenimine-based sorbents. <i>Microbiology</i> , 2017 , 86, 629-639	1.4	4
77	Estimation of biotechnological potential and clarification of taxonomic status of Parietochloris genus microalgae (Trebouxiophyceae) from the CALU collection. <i>Moscow University Biological Sciences Bulletin</i> , 2017 , 72, 137-141	0.5	2
76	In situ optical properties of foliar flavonoids: Implication for non-destructive estimation of flavonoid content. <i>Journal of Plant Physiology</i> , 2017 , 218, 258-264	3.6	15
75	Generic Algorithms for Estimating Foliar Pigment Content. <i>Geophysical Research Letters</i> , 2017 , 44, 9293-9298	3.2	32
74	Nutrient removal and biodiesel feedstock potential of green alga UHCC00027 grown in municipal wastewater under Nordic conditions. <i>Algal Research</i> , 2017 , 26, 65-73	5	29
73	Versatility of the green microalga cell vacuole function as revealed by analytical transmission electron microscopy. <i>Protoplasma</i> , 2017 , 254, 1323-1340	3.4	30
72	Stress-induced secondary carotenogenesis in Coelastrella rubescens (Scenedesmaceae, Chlorophyta), a producer of value-added keto-carotenoids. <i>Algae</i> , 2017 , 32, 245-259	2.4	15
71	Phosphorus from wastewater to crops: An alternative path involving microalgae. <i>Biotechnology Advances</i> , 2016 , 34, 550-564	17.8	135
70	Nitrogen availability modulates CO2 tolerance in a symbiotic chlorophyte. <i>Algal Research</i> , 2016 , 16, 177-188	3.8	6
69	Diversity of the nitrogen starvation responses in subarctic Desmodesmus sp. (Chlorophyceae) strains isolated from symbioses with invertebrates. <i>FEMS Microbiology Ecology</i> , 2016 , 92, fiw031	4.3	16

68	pH and CO ₂ effects on <i>Coelastrella</i> (<i>Scotiellopsis</i>) <i>rubescens</i> growth and metabolism. <i>Russian Journal of Plant Physiology</i> , 2016 , 63, 566-574	1.6	9
67	Tolerance of the Photosynthetic Apparatus to Acidification of the Growth Medium as a Possible Determinant of CO ₂ -Tolerance of the Symbiotic Microalga <i>Desmodesmus</i> sp. IPPAS-2014. <i>Biochemistry (Moscow)</i> , 2016 , 81, 1531-1537	2.9	8
66	Modulation of photosynthetic activity and photoprotection in <i>Haematococcus pluvialis</i> cells during their conversion into haematocysts and back. <i>Photosynthesis Research</i> , 2016 , 128, 313-23	3.7	22
65	An exceptional irradiance-induced decrease of light trapping in two <i>Tradescantia</i> species: an unexpected relationship with the leaf architecture and zeaxanthin-mediated photoprotection. <i>Biologia Plantarum</i> , 2016 , 60, 385-393	2.1	7
64	Immobilized microalgae in biotechnology. <i>Moscow University Biological Sciences Bulletin</i> , 2016 , 71, 170-176	16	
63	Screening of the culture media with different concentrations of nutrients for cultivation of the microalgae associated with the invertebrates of the White Sea. <i>Moscow University Biological Sciences Bulletin</i> , 2016 , 71, 102-107	0.5	
62	Possibilities and limitations of non-destructive monitoring of the unicellular green microalgae (Chlorophyta) in the course of balanced growth. <i>Russian Journal of Plant Physiology</i> , 2015 , 62, 270-278	1.6	8
61	A novel CO ₂ -tolerant symbiotic <i>Desmodesmus</i> (Chlorophyceae, Desmodesmaceae): Acclimation to and performance at a high carbon dioxide level. <i>Algal Research</i> , 2015 , 11, 399-410	5	22
60	Flashing light enhancement of photosynthesis and growth occurs when photochemistry and photoprotection are balanced in <i>Dunaliella salina</i> . <i>European Journal of Phycology</i> , 2015 , 50, 469-480	2.2	30
59	Similarity and diversity of the <i>Desmodesmus</i> spp. microalgae isolated from associations with White Sea invertebrates. <i>Protoplasma</i> , 2015 , 252, 489-503	3.4	27
58	Coordinated rearrangements of assimilatory and storage cell compartments in a nitrogen-starving symbiotic chlorophyte cultivated under high light. <i>Archives of Microbiology</i> , 2015 , 197, 181-95	3	20
57	Physiological plasticity of symbiotic <i>Desmodesmus</i> (Chlorophyceae) isolated from taxonomically distant white sea invertebrates. <i>Russian Journal of Plant Physiology</i> , 2015 , 62, 653-663	1.6	9
56	A novel source of dihomoglinolenic acid: Possibilities and limitations of DGLA production in the high-density cultures of the $\Delta 5$ desaturase-mutant microalga <i>Lobosphaera incisa</i> . <i>European Journal of Lipid Science and Technology</i> , 2015 , 117, 760-766	3	19
55	Recent breakthroughs in the biology of astaxanthin accumulation by microalgal cell. <i>Photosynthesis Research</i> , 2015 , 125, 437-49	3.7	77
54	Induction of Secondary Carotenogenesis in New Halophile Microalgae from the Genus <i>Dunaliella</i> (Chlorophyceae). <i>Biochemistry (Moscow)</i> , 2015 , 80, 1508-13	2.9	11
53	Phycoremediation of alcohol distillery wastewater with a novel <i>Chlorella sorokiniana</i> strain cultivated in a photobioreactor monitored on-line via chlorophyll fluorescence. <i>Algal Research</i> , 2014 , 6, 234-241	5	67
52	Interactive effects of salinity, high light, and nitrogen starvation on fatty acid and carotenoid profiles in <i>Nannochloropsis oceanica</i> CCALA 804. <i>European Journal of Lipid Science and Technology</i> , 2014 , 116, 635-644	3	41
51	<i>Desmodesmus</i> sp. 3Dp86E-1-a novel symbiotic chlorophyte capable of growth on pure CO ₂ . <i>Marine Biotechnology</i> , 2014 , 16, 495-501	3.4	18

50	Accumulation of astaxanthin by a new <i>Haematococcus pluvialis</i> strain BM1 from the white sea coastal rocks (Russia). <i>Marine Drugs</i> , 2014 , 12, 4504-20	6	77
49	Downregulation of a putative plastid PDC E1 β subunit impairs photosynthetic activity and triacylglycerol accumulation in nitrogen-starved photoautotrophic <i>Chlamydomonas reinhardtii</i> . <i>Journal of Experimental Botany</i> , 2014 , 65, 6563-76	7	34
48	Production of Carotenoids Using Microalgae Cultivated in Photobioreactors 2014 , 63-91		5
47	Extra perspectives of 5-ethynyl-2'-deoxyuridine click reaction with fluorochrome azides to study cell cycle and deoxyribonucleoside metabolism. <i>Russian Journal of Plant Physiology</i> , 2014 , 61, 899-909	1.6	4
46	Growth, lipid production and metabolic adjustments in the euryhaline eustigmatophyte <i>Nannochloropsis oceanica</i> CCALA 804 in response to osmotic downshift. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 8291-306	5.7	53
45	Stress-induced changes in pigment and fatty acid content in the microalga <i>Desmodesmus</i> sp. Isolated from a White Sea hydroid. <i>Russian Journal of Plant Physiology</i> , 2013 , 60, 313-321	1.6	20
44	Possibilities of bioconversion of agricultural waste with the use of microalgae. <i>Moscow University Biological Sciences Bulletin</i> , 2013 , 68, 206-215	0.5	6
43	Physiology and adaptive significance of secondary carotenogenesis in green microalgae. <i>Russian Journal of Plant Physiology</i> , 2013 , 60, 1-13	1.6	52
42	Probing the effects of high-light stress on pigment and lipid metabolism in nitrogen-starving microalgae by measuring chlorophyll fluorescence transients: Studies with a β desaturase mutant of <i>Parietochloris incisa</i> (Chlorophyta, Trebouxiophyceae). <i>Algal Research</i> , 2013 , 2, 175-182	5	47
41	Nondestructive monitoring of carotenogenesis in <i>Haematococcus pluvialis</i> via whole-cell optical density spectra. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 4533-41	5.7	18
40	High-CO ₂ tolerance in microalgae: possible mechanisms and implications for biotechnology and bioremediation. <i>Biotechnology Letters</i> , 2013 , 35, 1745-52	3	100
39	Reconstruction of microalgal suspension absorption spectra from reflectance spectra of the cells deposited on GF/F filters. <i>Israel Journal of Plant Sciences</i> , 2012 , 60, 231-242	0.6	1
38	Green microalgae isolated from associations with white sea invertebrates. <i>Microbiology</i> , 2012 , 81, 505-507		12
37	Physiological role of neutral lipid accumulation in eukaryotic microalgae under stresses. <i>Russian Journal of Plant Physiology</i> , 2012 , 59, 167-176	1.6	151
36	Genetic instability of the short-living ascomycetous fungus <i>Podospira anserina</i> induced by prolonged submerged cultivation. <i>Microbiology</i> , 2011 , 80, 784-796	1.4	5
35	Relationships between internal ethylene and optical reflectance in ripening Antonovka apples grown under sunlit and shaded conditions. <i>Postharvest Biology and Technology</i> , 2011 , 59, 206-209	6.2	4
34	Pigment composition, optical properties, and resistance to photodamage of the microalga <i>Haematococcus pluvialis</i> cultivated under high light. <i>Russian Journal of Plant Physiology</i> , 2011 , 58, 9-17	1.6	30
33	Physiological role of anthocyanin accumulation in common hazel juvenile leaves. <i>Russian Journal of Plant Physiology</i> , 2011 , 58, 674-680	1.6	12

32	Stress-induced changes in optical properties, pigment and fatty acid content of <i>Nannochloropsis</i> sp.: implications for non-destructive assay of total fatty acids. <i>Marine Biotechnology</i> , 2011 , 13, 527-35	3-4	72
31	Light-induced decrease of reflectance provides an insight in the photoprotective mechanisms of ripening apple fruit. <i>Plant Science</i> , 2010 , 178, 281-288	5-3	13
30	Buildup of Screening Pigments and Resistance of Plants to Photodamage. <i>Springer Series in Biophysics</i> , 2010 , 143-163		
29	Manifestations of the Buildup of Screening Pigments in the Optical Properties of Plants. <i>Springer Series in Biophysics</i> , 2010 , 89-118		2
28	Quantification of Screening Pigments and Their Efficiency In Situ. <i>Springer Series in Biophysics</i> , 2010 , 119-141		5
27	Stress-Induced Buildup of Screening Pigments. <i>Springer Series in Biophysics</i> , 2010 , 33-65		
26	Photoprotection in Plants. <i>Springer Series in Biophysics</i> , 2010 ,		50
25	COORDINATED CAROTENOID AND LIPID SYNTHESSES INDUCED IN <i>PARIETOCHELORIS INCISA</i> (CHLOROPHYTA, TREBOUXIOPHYCEAE) MUTANT DEFICIENT IN β DESATURASE BY NITROGEN STARVATION AND HIGH LIGHT1. <i>Journal of Phycology</i> , 2010 , 46, 763-772	3	56
24	Screening Pigments: General Questions. <i>Springer Series in Biophysics</i> , 2010 , 9-31		3
23	Localization of Screening Pigments Within Plant Cells and Tissues. <i>Springer Series in Biophysics</i> , 2010 , 67-88		2
22	Optical Screening as a Photoprotective Mechanism. <i>Springer Series in Biophysics</i> , 2010 , 1-7		2
21	Carotenoid-to-chlorophyll ratio as a proxy for assay of total fatty acids and arachidonic acid content in the green microalga <i>Parietochloris incisa</i> . <i>Journal of Applied Phycology</i> , 2009 , 21, 361-366	3-2	57
20	Light absorption by anthocyanins in juvenile, stressed, and senescing leaves. <i>Journal of Experimental Botany</i> , 2008 , 59, 3903-11	7	143
19	Effects of light intensity and nitrogen starvation on growth, total fatty acids and arachidonic acid in the green microalga <i>Parietochloris incisa</i> . <i>Journal of Applied Phycology</i> , 2008 , 20, 245-251	3-2	250
18	Light absorption and scattering by cell suspensions of some cyanobacteria and microalgae. <i>Russian Journal of Plant Physiology</i> , 2008 , 55, 420-425	1.6	21
17	Effects of light and nitrogen starvation on the content and composition of carotenoids of the green microalga <i>Parietochloris incisa</i> . <i>Russian Journal of Plant Physiology</i> , 2008 , 55, 455-462	1.6	59
16	Screening of visible and UV radiation as a photoprotective mechanism in plants. <i>Russian Journal of Plant Physiology</i> , 2008 , 55, 719-737	1.6	145
15	EFFECT OF NITROGEN STARVATION ON OPTICAL PROPERTIES, PIGMENTS, AND ARACHIDONIC ACID CONTENT OF THE UNICELLULAR GREEN ALGA <i>PARIETOCHELORIS INCISA</i> (TREBOUXIOPHYCEAE, CHLOROPHYTA)1. <i>Journal of Phycology</i> , 2007 , 43, 833-843	3	111

14	Elevated sunlight promotes ripening-associated pigment changes in apple fruit. <i>Postharvest Biology and Technology</i> , 2006 , 40, 183-189	6.2	38
13	Optical properties of rhodoxanthin accumulated in <i>Aloe arborescens</i> Mill. leaves under high-light stress with special reference to its photoprotective function. <i>Photochemical and Photobiological Sciences</i> , 2005 , 4, 333-40	4.2	39
12	Apple flavonols during fruit adaptation to solar radiation: spectral features and technique for non-destructive assessment. <i>Journal of Plant Physiology</i> , 2005 , 162, 151-60	3.6	63
11	Relationships between chlorophyll and carotenoid pigments during on- and off-tree ripening of apple fruit as revealed non-destructively with reflectance spectroscopy. <i>Postharvest Biology and Technology</i> , 2005 , 38, 9-17	6.2	51
10	Significance of skin flavonoids for UV-B-protection in apple fruits. <i>Journal of Experimental Botany</i> , 2003 , 54, 1977-84	7	168
9	Involvement of phytochrome in regulation of transpiration: red-/far red-induced responses in the chlorophyll-deficient mutant of pea. <i>Functional Plant Biology</i> , 2003 , 30, 1249-1259	2.7	13
8	Application of Reflectance Spectroscopy for Analysis of Higher Plant Pigments. <i>Russian Journal of Plant Physiology</i> , 2003 , 50, 704-710	1.6	101
7	Reflectance spectral features and non-destructive estimation of chlorophyll, carotenoid and anthocyanin content in apple fruit. <i>Postharvest Biology and Technology</i> , 2003 , 27, 197-211	6.2	255
6	Optical properties and contribution of cuticle to UV protection in plants: experiments with apple fruit. <i>Photochemical and Photobiological Sciences</i> , 2003 , 2, 861-6	4.2	84
5	Patterns of pigment changes in apple fruits during adaptation to high sunlight and sunscald development. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 679-684	5.4	84
4	Photostability of pigments in ripening apple fruit: a possible photoprotective role of carotenoids during plant senescence. <i>Plant Science</i> , 2002 , 163, 881-888	5.3	88
3	A Spectrophotometric Analysis of Pigments in Apples. <i>Russian Journal of Plant Physiology</i> , 2001 , 48, 693-700	1.6	46
2	Chlorophyll fluorescence as a valuable multitool for microalgal biotechnology. <i>Biophysical Reviews</i> , 2011 , 1, 3-7	3.7	0
1	Cadmium- and chromium-induced damage and acclimation mechanisms in <i>Scenedesmus quadricauda</i> and <i>Chlorella sorokiniana</i> . <i>Journal of Applied Phycology</i> , 2011 , 17, 1-10	3.2	1