

Paolo Gualtieri

List of Publications by Year in descending order

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77
papers

1,869
citations

304743

22
h-index

302126

39
g-index

77
all docs

77
docs citations

77
times ranked

1829
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry, physico-chemistry and applications linked to biological activities of β -glucans. Natural Product Reports, 2011, 28, 457.	10.3	207
2	Is exploitation of microalgae economically and energetically sustainable?. Algal Research, 2018, 31, 107-115.	4.6	166
3	Title is missing!. Journal of Applied Phycology, 2001, 13, 59-65.	2.8	122
4	Algae. , 0, , .		108
5	Effects of chromium on photosynthetic and photoreceptive apparatus of the alga <i>Chlamydomonas reinhardtii</i> . Environmental Research, 2007, 105, 234-239.	7.5	81
6	<i>Euglena gracilis</i> paramylon activates human lymphocytes by upregulating pro-inflammatory factors. Food Science and Nutrition, 2017, 5, 205-214.	3.4	62
7	Feeding behaviour in ciliated protists. Micron, 1997, 28, 487-504.	2.2	56
8	Identification of a rhodopsin photoreceptor in <i>Euglena gracilis</i> . Biochimica Et Biophysica Acta - General Subjects, 1992, 1117, 55-59.	2.4	52
9	Absorption spectrum of a single isolated paraflagellar swelling of <i>Euglena gracilis</i> . Biochimica Et Biophysica Acta - General Subjects, 1989, 993, 293-296.	2.4	51
10	Natural vitamin E enrichment of <i>Artemia salina</i> fed freshwater and marine microalgae. Journal of Applied Phycology, 2003, 15, 75-80.	2.8	47
11	Ultrastructure of the apical zone of <i>Euglena gracilis</i> : Photoreceptors and motor apparatus. Electron Microscopy Reviews, 1991, 4, 319-342.	1.3	42
12	Water monitoring: automated and real time identification and classification of algae using digital microscopy. Environmental Sciences: Processes and Impacts, 2014, 16, 2656-2665.	3.5	42
13	Paramylon, a Potent Immunomodulator from WZSL Mutant of <i>Euglena gracilis</i> .. Molecules, 2019, 24, 3114.	3.8	41
14	In Vivo Photocycle of the <i>Euglena gracilis</i> Photoreceptor. Biophysical Journal, 1997, 72, 545-553.	0.5	37
15	In vivo microspectroscopy monitoring of chromium effects on the photosynthetic and photoreceptive apparatus of <i>Eudorina unicocca</i> and <i>Chlorella kessleri</i> . Journal of Environmental Monitoring, 2008, 10, 1313.	2.1	35
16	Retinal Identification in <i>Pelvetia fastigiata</i> . Biochemical and Biophysical Research Communications, 1998, 243, 776-778.	2.1	34
17	The photoreceptor protein of <i>Euglena gracilis</i> . FEBS Letters, 2000, 482, 247-251.	2.8	30
18	The role of <i>Euglena gracilis</i> paramylon in modulating xylem hormone levels, photosynthesis and water use efficiency in <i>Solanum lycopersicum</i> L. Physiologia Plantarum, 2017, 161, 486-501.	5.2	28

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19	Stress resistance induced by paramylon treatment in <i>Artemia</i> sp.. <i>Journal of Applied Phycology</i> , 2004, 16, 61-67.	2.8	25
20	Photoreceptor morphology and visual pigment content in the pineal organ and in the retina of juvenile and adult trout, <i>Salmo irideus</i> . <i>Micron</i> , 1993, 24, 279-286.	2.2	24
21	New trends in photobiology. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1993, 19, 3-14.	3.8	24
22	Microspectroscopy of photoreceptor pigments in flagellated algae. <i>Critical Reviews in Plant Sciences</i> , 1991, 9, 475-495.	5.7	23
23	Elimination of photoreceptor (paraflagellar swelling) and photoreception in <i>Euglena gracilis</i> by means of the carotenoid biosynthesis inhibitor nicotine. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992, 13, 135-144.	3.8	22
24	Absorption microspectroscopy, theory and applications in the case of the photosynthetic compartment. <i>Micron</i> , 2007, 38, 197-213.	2.2	22
25	Effects of hydroxylamine, digitonin and triton X-100 on photoreceptor (Paraflagellar swelling) and Photoreception of <i>Euglena gracilis</i> . <i>Vision Research</i> , 1993, 33, 2043-2050.	1.4	19
26	Ultrastructure of a novel non-photosynthetic <i>Euglena</i> mutant. <i>Micron</i> , 1996, 27, 367-373.	2.2	19
27	A rhodopsin-like protein in <i>Cyanophora paradoxa</i> : gene sequence and protein immunolocalization. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 965-971.	5.4	19
28	Molecular biology in living cells by means of digital optical microscopy. <i>Micron and Microscopica Acta</i> , 1992, 23, 239-257.	0.2	18
29	Fundamental questions and concepts about photoreception and the case of <i>Euglena gracilis</i> . <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 22-36.	1.3	18
30	Automatic and real time recognition of microalgae by means of pigment signature and shape. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 1397.	3.5	18
31	Microorganism track reconstruction: An image processing approach. <i>Computers in Biology and Medicine</i> , 1988, 18, 57-63.	7.0	17
32	Harvesting <i>Euglena gracilis</i> cells with a nontoxic flocculant. <i>Journal of Microbiological Methods</i> , 1988, 8, 327-332.	1.6	17
33	Rhodopsin: A Photopigment for Phototaxis in <i>Euglena gracilis</i> . <i>Critical Reviews in Plant Sciences</i> , 1998, 17, 559-574.	5.7	17
34	Microspectroscopy of the Photosynthetic Compartment of Algae. <i>Photochemistry and Photobiology</i> , 2006, 82, 1039.	2.5	16
35	Paramylon Treatment Improves Quality Profile and Drought Resistance in <i>Solanum lycopersicum</i> L. cv. Micro-Tom. <i>Agronomy</i> , 2019, 9, 394.	3.0	16
36	Water monitoring by means of digital microscopy identification and classification of microalgae. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1443-1457.	3.5	16

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37	Isolation of the Flagellar Swelling and Identification of Retinal in the Phototactic Flagellate, <i>Ochromonas danica</i> (Chrysophyceae). <i>Journal of Eukaryotic Microbiology</i> , 1995, 42, 7-11.	1.7	15
38	Anti-fibrotic effect of paramylon nanofibers from the WZSL mutant of <i>Euglena gracilis</i> on liver damage induced by CCl 4 in mice. <i>Journal of Functional Foods</i> , 2018, 46, 538-545.	3.4	15
39	Tryptophan phosphorescence and the conformation of liver alcohol dehydrogenase in solution and in the crystalline state. <i>Biophysical Chemistry</i> , 1988, 30, 61-67.	2.8	14
40	A simple instrument to perform "in vivo" absorption spectra of pigmented cellular organelles. <i>Micron and Microscopica Acta</i> , 1989, 20, 107-110.	0.2	13
41	A short flagella mutant of <i>Dunaliella salina</i> (Chlorophyta, Chlorophyceae). <i>Micron</i> , 2004, 35, 337-344.	2.2	13
42	A digital microscope for real time detection of moving microorganisms. <i>Micron and Microscopica Acta</i> , 1989, 20, 99-105.	0.2	12
43	In vivo microspectrophotometric investigation of <i>Blepharisma japonicum</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1989, 3, 379-383.	3.8	12
44	A procedure for the extraction of object features in microscope images. <i>International Journal of Bio-medical Computing</i> , 1990, 25, 169-176.	0.5	12
45	A biological point of view on photoreception (no-imaging vision) in algae. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1993, 18, 95-97.	3.8	11
46	Diet-induced variations in fatty acid content and composition of two on-grown stages of <i>Artemia Salina</i> . <i>Journal of Applied Phycology</i> , 2003, 15, 477-483.	2.8	11
47	A polychromator-based microspectrophotometer. <i>International Journal of Biological Sciences</i> , 2007, 3, 251-256.	6.4	10
48	In Vivo Absorption Spectra of the Two Stable States of the <i>Euglena</i> Photoreceptor Photocycle. <i>Photochemistry and Photobiology</i> , 2009, 85, 304-312.	2.5	10
49	Fluorescence Behavior of <i>Euglena</i> Photoreceptor. <i>Photochemistry and Photobiology</i> , 2003, 78, 93.	2.5	10
50	<i>Tetraflagellochloris mauritanica</i> gen. et sp. nov. (Chlorophyceae), a New Flagellated Alga from the Mauritanian Desert: Morphology, Ultrastructure, and Phylogenetic Framing. <i>Journal of Phycology</i> , 2013, 49, 178-193.	2.3	9
51	Kinetics of the reaction of intraerythrocytic haemoglobin by single cell microspectroscopy: effect of shape and osmolarity. <i>FEBS Letters</i> , 1985, 190, 217-220.	2.8	8
52	The formation of giants in <i>Oxytricha bifaria</i> : A peculiar multi-step cell differentiation. <i>European Journal of Protistology</i> , 1991, 27, 264-268.	1.5	8
53	Identification of cellular and subcellular features by means of digital microscopy. <i>International Journal of Bio-medical Computing</i> , 1987, 20, 79-86.	0.5	7
54	An image-processing system, motion analysis oriented (IPS-100), applied to microscopy. <i>Computer Methods and Programs in Biomedicine</i> , 1991, 36, 15-25.	4.7	7

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55	Digestive process of the raptorial feeder ciliate <i>Litonotus lamella</i> (Rabdophora, Litostomatea) visualized by fluorescence microscopy. <i>Micron</i> , 1997, 28, 447-451.	2.2	7
56	Low-resolution characterization of the 3D structure of the <i>Euglena gracilis</i> photoreceptor. <i>Biochemical and Biophysical Research Communications</i> , 2008, 375, 471-476.	2.1	7
57	Intramolecular photo-switching and intermolecular energy transfer as primary photoevents in photoreceptive processes: The case of <i>Euglena gracilis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009, 385, 176-180.	2.1	7
58	Flagellated microswimmers: Hydrodynamics in thin liquid films. <i>European Physical Journal E</i> , 2018, 41, 28.	1.6	7
59	Swimming patterns of the quadriflagellate <i>Tetraflagellochloris mauritanica</i> (Chlamydomonadales, Chlorophyceae). <i>Journal of Phycology</i> , 2016, 52, 209-218.	2.3	6
60	Reconstruction of the absorption spectrum of an object spot from the colour values of the corresponding pixel(s) in its digital image: the challenge of algal colours. <i>Journal of Microscopy</i> , 2016, 264, 311-320.	1.8	5
61	Flagellar Movements and Controlling Apparatus in Flagellates. <i>Critical Reviews in Plant Sciences</i> , 2001, 20, 297-308.	5.7	4
62	<i>Euglena gracilis</i> photoreception interpreted by microspectroscopy. <i>European Journal of Protistology</i> , 2003, 39, 404-409.	1.5	4
63	MICROSPECTROPHOTOMETRY AS A METHOD TO IDENTIFY KLEPTOPLASTIDS IN THE NAKED FRESHWATER DINOFLAGELLATE <i>GYMNODINIUM ACIDOTUM</i> . <i>Journal of Phycology</i> , 2009, 45, 1304-1309.	2.3	4
64	Anatomy of <i>Euglena gracilis</i> . , 2020, , 61-70.		4
65	Rhodopsin: A Photopigment for Phototaxis in <i>Euglena gracilis</i> . <i>Critical Reviews in Plant Sciences</i> , 1998, 17, 559-574.	5.7	4
66	Dialysis culture of <i>Euglena gracilis</i> . <i>Journal of Microbiological Methods</i> , 1989, 10, 47-51.	1.6	3
67	An automatic real-time system for the determination of translational and rotational speeds of swimming micro-organisms. <i>International Journal of Signal and Imaging Systems Engineering</i> , 2008, 1, 25.	0.6	3
68	A second rhodopsin-like protein in <i>Cyanophora paradoxa</i> : Gene sequence and protein expression in a cell-free system. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 125, 188-193.	3.8	3
69	Remediation of dairy wastewater by <i>Euglena gracilis</i> WZSL mutant and Î ² -glucan production. <i>Journal of Applied Phycology</i> , 2021, 33, 431-441.	2.8	3
70	Measurement of spatial variation of responsiveness in solid-state imager. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1986, IM-35, 646-648.	4.7	2
71	Edge-preserving restoration of low-light-level microscope images. <i>Micron</i> , 1995, 26, 195-199.	2.2	2
72	Edge-preserving restoration in 2-D fluorescence microscopy. <i>Micron</i> , 1996, 27, 431-447.	2.2	2

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73	Algae through the looking glass. <i>Microscopy Research and Technique</i> , 2017, 80, 486-494.	2.2	2
74	Unveiling the Secrets of Escherâ€™s Lithographs. <i>Journal of Imaging</i> , 2020, 6, 5.	3.0	2
75	Application of video and image processing to the light microscope. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1988, 1, 495-496.	3.8	0
76	An algorithm comparing the two mononuclear curves of choice reaction times in pigeons. <i>Journal of Neuroscience Methods</i> , 1990, 32, 87-92.	2.5	0
77	Photoreception in Microalgae. , 2003, , .		0