

# IvĂn GĂmez

## List of Publications by Year in descending order

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90  
papers

3,413  
citations

117625

34  
h-index

161849

54  
g-index

91  
all docs

91  
docs citations

91  
times ranked

2422  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultraviolet radiation shapes seaweed communities. <i>Reviews in Environmental Science and Biotechnology</i> , 2006, 5, 141-166.	8.1	193
2	Impact of UV-radiation on viability, photosynthetic characteristics and DNA of brown algal zoospores: implications for depth zonation. <i>Marine Ecology - Progress Series</i> , 2000, 197, 217-229.	1.9	175
3	Relations between electron transport rates determined by pulse amplitude modulated chlorophyll fluorescence and oxygen evolution in macroalgae under different light conditions. <i>Photosynthesis Research</i> , 2003, 75, 259-275.	2.9	162
4	Life strategy, ecophysiology and ecology of seaweeds in polar waters. <i>Reviews in Environmental Science and Biotechnology</i> , 2007, 6, 95-126.	8.1	128
5	Patterns of photosynthesis in 18 species of intertidal macroalgae from southern Chile. <i>Marine Ecology - Progress Series</i> , 2004, 270, 103-116.	1.9	106
6	Light and temperature demands of marine benthic microalgae and seaweeds in polar regions. <i>Botanica Marina</i> , 2009, 52, 593-608.	1.2	104
7	Photosynthetic light requirements, metabolic carbon balance and zonation of sublittoral macroalgae from King George Island (Antarctica). <i>Marine Ecology - Progress Series</i> , 1997, 148, 281-293.	1.9	98
8	Photosynthetic characteristics and C:N ratios of macroalgae from King George Island (Antarctica). <i>Journal of Experimental Marine Biology and Ecology</i> , 1996, 204, 1-22.	1.5	83
9	EFFECT OF TEMPERATURE AND GRAZING ON GROWTH AND REPRODUCTION OF FLOATING <i>MACROCYSTIS</i> SPP. (PHAEOPHYCEAE) ALONG A LATITUDINAL GRADIENT. <i>Journal of Phycology</i> , 2009, 45, 547-559.	2.3	79
10	Phlorotannin and Antioxidant Responses Upon Short-term Exposure to UV Radiation and Elevated Temperature in Three South Pacific Kelps. <i>Photochemistry and Photobiology</i> , 2012, 88, 58-66.	2.5	75
11	Induction of Phlorotannins During UV Exposure Mitigates Inhibition of Photosynthesis and DNA Damage in the Kelp <i>Lessonia nigrescens</i> . <i>Photochemistry and Photobiology</i> , 2010, 86, 1056-1063.	2.5	71
12	Interactive effects of UV radiation and enhanced temperature on photosynthesis, phlorotannin induction and antioxidant activities of two sub-Antarctic brown algae. <i>Marine Biology</i> , 2013, 160, 1-13.	1.5	71
13	Ultraviolet-absorbing mycosporine-like amino acids in red macroalgae from Chile. <i>Botanica Marina</i> , 2004, 47, .	1.2	70
14	Effects of solar radiation on photosynthesis, UV-absorbing compounds and enzyme activities of the green alga <i>Dasycladus vermicularis</i> from southern Spain. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1998, 47, 46-57.	3.8	67
15	A Five-year Study of Solar Ultraviolet Radiation in Southern Chile (39° S): Potential Impact on Physiology of Coastal Marine Algae?. <i>Photochemistry and Photobiology</i> , 2006, 82, 515.	2.5	67
16	A High-Resolution Global Map of Giant Kelp ( <i>Macrocystis pyrifera</i> ) Forests and Intertidal Green Algae ( <i>Ulvophyceae</i> ) with Sentinel-2 Imagery. <i>Remote Sensing</i> , 2020, 12, 694.	4.0	66
17	Morpho-functional patterns and zonation of South Chilean seaweeds: the importance of photosynthetic and bio-optical traits. <i>Marine Ecology - Progress Series</i> , 2011, 422, 77-91.	1.9	57
18	Effects of UV radiation on photosynthesis and excretion of UV-absorbing compounds of <i>Dasycladus vermicularis</i> (Dasycladales, Chlorophyta) from southern Spain. <i>Phycologia</i> , 1998, 37, 379-387.	1.4	56

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19	Photosynthesis of the red alga <i>Gracilaria chilensis</i> under natural solar radiation in an estuary in southern Chile. <i>Aquaculture</i> , 2005, 244, 369-382.	3.5	56
20	Physiological acclimation of floating <i>Macrocystis pyrifera</i> to temperature and irradiance ensures long-term persistence at the sea surface at mid-latitudes. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 405, 33-41.	1.5	54
21	Photobiological characteristics and photosynthetic UV responses in two <i>Ulva</i> species (Chlorophyta) from southern Spain. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2003, 72, 35-44.	3.8	51
22	Effects of solar radiation on the endemic Mediterranean red alga <i>Rissoella verruculosa</i> : photosynthetic performance, pigment content and the activities of enzymes related to nutrient uptake. <i>New Phytologist</i> , 1998, 139, 673-683.	7.3	49
23	Phenology and seasonal physiological performance of polar seaweeds. <i>Botanica Marina</i> , 2009, 52, 585-592.	1.2	49
24	Suspended farming of <i>Gracilaria chilensis</i> (Rhodophyta, Gigartinales) at Cariquilda River, MaullÃn, Chile. <i>Aquaculture</i> , 1993, 113, 215-229.	3.5	48
25	Physicochemical features of ultra-high viscosity alginates. <i>Carbohydrate Research</i> , 2009, 344, 985-995.	2.3	46
26	Title is missing!. <i>Journal of Applied Phycology</i> , 2001, 13, 233-245.	2.8	44
27	Seasonal changes in C, N and major organic compounds and their significance to morpho-functional processes in the endemic Antarctic brown alga <i>Ascoseira mirabilis</i> . <i>Polar Biology</i> , 1998, 19, 115-124.	1.2	43
28	Remote sensing of albedo-reducing snow algae and impurities in the Maritime Antarctica. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 146, 507-517.	11.1	43
29	Species-specific defense strategies of vegetative versus reproductive blades of the Pacific kelps <i>Lessonia nigrescens</i> and <i>Macrocystis integrifolia</i> . <i>Marine Biology</i> , 2008, 155, 51-62.	1.5	40
30	Photosynthetic characteristics and UV stress tolerance of Antarctic seaweeds along the depth gradient. <i>Polar Biology</i> , 2013, 36, 1319-1332.	1.2	40
31	Effects of increased seawater temperature on UV tolerance of Antarctic marine macroalgae. <i>Marine Biology</i> , 2015, 162, 1087-1097.	1.5	39
32	Up, Down, and All Around: Scale-Dependent Spatial Variation in Rocky-Shore Communities of Fildes Peninsula, King George Island, Antarctica. <i>PLoS ONE</i> , 2014, 9, e100714.	2.5	38
33	Title is missing!. <i>Journal of Applied Phycology</i> , 1998, 10, 285-294.	2.8	34
34	Intra-plant differences in seaweed nutritional quality and chemical defenses: Importance for the feeding behavior of the intertidal amphipod <i>Orchestoidea tuberculata</i> . <i>Journal of Sea Research</i> , 2011, 66, 215-221.	1.6	34
35	PHYSIOLOGICAL PERFORMANCE OF FLOATING GIANT KELP <i>MACROCYSTIS PYRIFERA</i> (PHAEOPHYCEAE): LATITUDINAL VARIABILITY IN THE EFFECTS OF TEMPERATURE AND GRAZING1. <i>Journal of Phycology</i> , 2011, 47, 269-281.	2.3	34
36	Mapping of spatial and temporal variation of water characteristics through satellite remote sensing in Lake Panguipulli, Chile. <i>Science of the Total Environment</i> , 2019, 679, 196-208.	8.0	34

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37	Fronde regrowth from basal disc in <i>Iridaea laminarioides</i> (Rhodophyta, Gigartinales) at Mehuin, southern Chile. <i>Marine Ecology - Progress Series</i> , 1991, 73, 83-91.	1.9	34
38	Kelp rafts in the Humboldt Current: Interplay of abiotic and biotic factors limit their floating persistence and dispersal potential. <i>Limnology and Oceanography</i> , 2011, 56, 1751-1763.	3.1	33
39	Variable feeding behavior in <i>Orchestoidea tuberculata</i> (Nicolet 1849): Exploring the relative importance of macroalgal traits. <i>Journal of Sea Research</i> , 2014, 87, 1-7.	1.6	33
40	Physiological acclimation of <i>Lessonia spicata</i> to diurnal changing PAR and UV radiation: differential regulation among down-regulation of photochemistry, ROS scavenging activity and phlorotannins as major photoprotective mechanisms. <i>Photosynthesis Research</i> , 2017, 131, 145-157.	2.9	33
41	The red macroalga <i>Delesseria sanguinea</i> as a UVB-sensitive model organism: selective growth reduction by UVB in outdoor experiments and rapid recording of growth rate during and after UV pulses. <i>European Journal of Phycology</i> , 2001, 36, 207-216.	2.0	32
42	Quantifying keystone species complexes: Ecosystem-based conservation management in the King George Island (Antarctic Peninsula). <i>Ecological Indicators</i> , 2017, 81, 453-460.	6.3	32
43	Spectral attenuation of solar radiation in Patagonian fjord and coastal waters and implications for algal photobiology. <i>Continental Shelf Research</i> , 2011, 31, 254-259.	1.8	31
44	Short- and long-term acclimation patterns of the giant kelp <i>Macrocystis pyrifera</i> (Laminariales). <i>Journal of Applied Phycology</i> , 2016, 28, 573-580.	2.3	31
45	Comparison of different techniques for the preservation and extraction of phlorotannins in the kelp <i>Lessonia spicata</i> (Phaeophyceae): assays of DPPH, ORAC-PCR, and ORAC-FL as testing methods. <i>Journal of Applied Phycology</i> , 2016, 28, 573-580.	2.8	31
46	Constant short-day treatment of outdoor-cultivated <i>Laminaria digitata</i> prevents summer drop in growth rate. <i>European Journal of Phycology</i> , 2001, 36, 391-395.	2.0	28
47	Interacting effects of copper, nitrogen and ultraviolet radiation on the physiology of three south Pacific kelps. <i>Marine and Freshwater Research</i> , 2010, 61, 330.	1.3	27
48	MORPHO-FUNCTIONAL PATTERNS OF PHOTOSYNTHESIS IN THE SOUTH PACIFIC KELP <i>LESSONIA NIGRESCENS</i> : EFFECTS OF UV RADIATION ON <sup>14</sup> C FIXATION AND PRIMARY PHOTOCHEMICAL REACTIONS. <i>Journal of Phycology</i> , 2007, 43, 55-64.	2.3	24
49	Energy contents and organic constituents in Antarctic and south Chilean marine brown algae. <i>Polar Biology</i> , 1995, 15, 597.	1.2	22
50	Consistent Richness-Biomass Relationship across Environmental Gradients in a Marine Macroalgal-Dominated Subtidal Community on the Western Antarctic Peninsula. <i>PLoS ONE</i> , 2015, 10, e0138582.	2.5	22
51	Variations in photosynthetic characteristics of the Antarctic marine brown alga <i>Ascoseira mirabilis</i> in relation to thallus age and size. <i>European Journal of Phycology</i> , 1996, 31, 167-172.	2.0	21
52	Unraveling the multiple bottom-up supplies of an Antarctic nearshore benthic community. <i>Progress in Oceanography</i> , 2019, 174, 55-63.	3.2	21
53	Lack of Physiological Depth Patterns in Conspecifics of Endemic Antarctic Brown Algae: A Trade-Off between UV Stress Tolerance and Shade Adaptation?. <i>PLoS ONE</i> , 2015, 10, e0134440.	2.5	21
54	Biological bases for management of <i>Iridaea laminarioides</i> Bory in southern Chile. <i>Hydrobiologia</i> , 1987, 151-152, 313-328.	2.0	20

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55	Microbial composition and photosynthesis in Antarctic snow algae communities: Integrating metabarcoding and pulse amplitude modulation fluorometry. <i>Algal Research</i> , 2020, 45, 101738.	4.6	20
56	UV-radiation versus grazing pressure: long-term floating of kelp rafts ( <i>Macrocystis pyrifera</i> ) is facilitated by efficient photoacclimation but undermined by grazing losses. <i>Marine Biology</i> , 2011, 158, 127-141.	1.5	19
57	Morpho-functionality of Carbon Metabolism in Seaweeds. <i>Ecological Studies</i> , 2012, , 25-46.	1.2	19
58	Underwater Optics in Sub-Antarctic and Antarctic Coastal Ecosystems. <i>PLoS ONE</i> , 2016, 11, e0154887.	2.5	19
59	Satellite-derived mapping of kelp distribution and water optics in the glacier impacted Yendegaia Fjord (Beagle Channel, Southern Chilean Patagonia). <i>Science of the Total Environment</i> , 2020, 703, 135531.	8.0	19
60	Stress Tolerance of the Endemic Antarctic Brown Alga <i>Desmarestia anceps</i> to UV Radiation and Temperature is Mediated by High Concentrations of Phlorotannins. <i>Photochemistry and Photobiology</i> , 2016, 92, 455-466.	2.5	18
61	Interaction of Photoprotective and Acclimation Mechanisms in <i>Ulva rigida</i> (Chlorophyta) in Response to Diurnal Changes in Solar Radiation in Southern Chile. <i>Journal of Phycology</i> , 2019, 55, 1011-1027.	2.3	17
62	Photosynthetic metabolism and major organic compounds in the marine brown alga <i>Desmarestia menziesii</i> from King George Island (Antarctica). <i>Aquatic Botany</i> , 1998, 60, 105-118.	1.6	16
63	Spatial distribution of phlorotannins and its relationship with photosynthetic UV tolerance and allocation of storage carbohydrates in blades of the kelp <i>Lessonia spicata</i> . <i>Marine Biology</i> , 2016, 163, 1.	1.5	16
64	Bio-optical and physiological patterns in Antarctic seaweeds: A functional trait based approach to characterize vertical zonation. <i>Progress in Oceanography</i> , 2019, 174, 17-27.	3.2	16
65	Halogenating activities detected in Antarctic macroalgae. <i>Polar Biology</i> , 1997, 17, 281-284.	1.2	15
66	Phenolics as photoprotective mechanism against combined action of UV radiation and temperature in the red alga <i>Gracilaria chilensis</i> ?. <i>Journal of Applied Phycology</i> , 2018, 30, 1247-1257.	2.8	15
67	Photobiology of the giant kelp <i>Macrocystis pyrifera</i> in the land-terminating glacier fjord Yendegaia (Tierra del Fuego): A look into the future?. <i>Science of the Total Environment</i> , 2021, 751, 141810.	8.0	14
68	Ultraviolet radiation shapes seaweed communities. , 2006, , 187-212.		14
69	Photosynthetic responses to UV-radiation of intertidal macroalgae from the Strait of Magellan (Chile). <i>Revista Chilena De Historia Natural</i> , 2009, 82, .	1.2	13
70	UV Sensitivity of Vegetative and Reproductive Tissues of Two Antarctic Brown Algae is Related to Differential Allocation of Phenolic Substances. <i>Photochemistry and Photobiology</i> , 2015, 91, 1382-1388.	2.5	13
71	Stress tolerance of Antarctic macroalgae in the early life stages. <i>Revista Chilena De Historia Natural</i> , 2016, 89, .	1.2	13
72	Early Life Stages of the South Pacific Kelps <i>Lessonia nigrescens</i> and <i>Lessonia trabeculata</i> (Laminariales, Phaeophyceae) Show Recovery Capacity Following Exposure to UV Radiation. <i>Phycologia</i> , 2007, 46, 467-470.	1.4	12

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73	Macroscopic network properties and short-term dynamic simulations in coastal ecological systems at Fildes Bay (King George Island, Antarctica). <i>Ecological Complexity</i> , 2016, 28, 145-157.	2.9	12
74	Water transparency affects the survival of the medusa stage of the invasive freshwater jellyfish <i>Craspedacusta sowerbii</i> . <i>Hydrobiologia</i> , 2018, 817, 179-191.	2.0	12
75	Functional filtering and random processes affect the assembly of microbial communities of snow algae blooms at Maritime Antarctic. <i>Science of the Total Environment</i> , 2022, 805, 150305.	8.0	11
76	Cold-Temperate Seaweed Communities of the Southern Hemisphere. <i>Ecological Studies</i> , 2012, , 293-313.	1.2	10
77	Uptake of microalgae as sublethal biomarker reveals phototoxicity of oxytetracycline to the crustacean <i>Daphnia magna</i> . <i>Water Research</i> , 2021, 188, 116556.	11.3	10
78	Stress proteins and auxiliary anti stress compounds in intertidal macroalgae. <i>Latin American Journal of Aquatic Research</i> , 2012, 40, 822-834.	0.6	10
79	Different ecological mechanisms lead to similar grazer controls on the functioning of periphyton Antarctic and sub-Antarctic communities. <i>Progress in Oceanography</i> , 2019, 174, 7-16.	3.2	9
80	Antarctic intertidal macroalgae under predicted increased temperatures mediated by global climate change: Would they cope?. <i>Science of the Total Environment</i> , 2020, 740, 140379.	8.0	9
81	Revealing the Characteristics of the Antarctic Snow Alga <i>Chlorominima collina</i> gen. et sp. nov. Through Taxonomy, Physiology, and Transcriptomics. <i>Frontiers in Plant Science</i> , 2021, 12, 662298.	3.6	9
82	Beta Diversity of Antarctic and Sub-Antarctic Benthic Communities Reveals a Major Role of Stochastic Assembly Processes. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	7
83	Photosynthetic characteristics of geographically disjunct seaweeds: A case study on the early life stages of Antarctic and Subantarctic species. <i>Progress in Oceanography</i> , 2019, 174, 28-36.	3.2	5
84	Brown Algal Phlorotannins: An Overview of Their Functional Roles. , 2020, , 365-388.		5
85	Antarctic Seaweeds: Biogeography, Adaptation, and Ecosystem Services. , 2020, , 3-20.		4
86	Ultraviolet radiation stress response of haploid and diploid spores of <i>Mazzaella laminarioides</i> : Do bio-optical traits matter?. <i>Algal Research</i> , 2021, 54, 102230.	4.6	3
87	Life History Strategies, Photosynthesis, and Stress Tolerance in Propagules of Antarctic Seaweeds. , 2020, , 193-215.		2
88	Form and Function in Antarctic Seaweeds: Photobiological Adaptations, Zonation Patterns, and Ecosystem Feedbacks. , 2020, , 217-237.		2
89	Carbon Balance Under a Changing Light Environment. , 2020, , 173-191.		1
90	Underwater Light Environment of Antarctic Seaweeds. , 2020, , 131-153.		1