

# Charles Yarish

## List of Publications by Year in descending order

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97  
papers

4,996  
citations

117453

34  
h-index

95083

68  
g-index

105  
all docs

105  
docs citations

105  
times ranked

3275  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of physiological responses between attached and pelagic populations of <i>Sargassum horneri</i> under nutrient and light limitation. <i>Marine Environmental Research</i> , 2022, 173, 105544.	1.1	8
2	Enhancements provided by the use of an <i>Ascophyllum nodosum</i> extract can be transferred through archeospores in the red alga <i>Neopyropia yezoensis</i> (Ueda) L.-E. Yang & J. Brodie. <i>Aquatic Botany</i> , 2022, 177, 103481.	0.8	3
3	Simulation of sugar kelp ( <i>Saccharina latissima</i> ) breeding guided by practices to accelerate genetic gains. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	7
4	Comparative Analysis of Physiological Responses in Two <i>Ulva prolifera</i> Strains Revealed the Effect of Eutrophication on High Temperature and Copper Stress Tolerance. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	3
5	Ascertaining the interactions of brown seaweed-derived biostimulants and seawater temperature on spore release, germination, conchocelis, and newly formed blades of the commercially important red alga <i>Neopyropia yezoensis</i> ?. <i>Algal Research</i> , 2022, 64, 102692.	2.4	5
6	Effects of the ultraviolet filter oxybenzone on physiological responses in a red macroalga, <i>Gracilaria vermiculophylla</i> . <i>Aquatic Botany</i> , 2022, 179, 103514.	0.8	2
7	Kelps in Korea: from population structure to aquaculture to potential carbon sequestration. <i>Algae</i> , 2022, 37, 85-103.	0.9	12
8	Effects of extraction methods for a new source of biostimulant from <i>Sargassum horneri</i> on the growth of economically important red algae, <i>Neopyropia yezoensis</i> . <i>Scientific Reports</i> , 2022, 12, .	1.6	7
9	Seasonal and interannual production of sea lettuce ( <i>Ulva</i> sp.) in outdoor cultures based on commercial size ponds. <i>Journal of the World Aquaculture Society</i> , 2021, 52, 1047-1058.	1.2	13
10	Responses of the germination and growth of <i>Ulva prolifera</i> parthenogametes, the causative species of green tides, to gradients of temperature and light. <i>Aquatic Botany</i> , 2021, 170, 103343.	0.8	14
11	Comparative analysis of morphometric traits of farmed sugar kelp and skinny kelp, <i>Saccharina</i> spp., strains from the Northwest Atlantic. <i>Journal of the World Aquaculture Society</i> , 2021, 52, 1059-1068.	1.2	13
12	Evaluation of nutrient bioextraction by seaweed and shellfish aquaculture in Korea. <i>Journal of the World Aquaculture Society</i> , 2021, 52, 1118-1134.	1.2	19
13	Germplasm cryopreservation of macroalgae for aquaculture breeding and natural resource conservation: A review. <i>Aquaculture</i> , 2021, 544, 737037.	1.7	10
14	Seaweed aquaculture—From historic trends to current innovation. <i>Journal of the World Aquaculture Society</i> , 2021, 52, 1004-1008.	1.2	10
15	Effects of stocking density on the productivity and nutrient removal of <i>Agarophyton vermiculophyllum</i> in <i>Paralichthys olivaceus</i> biofloc effluent. <i>Journal of Applied Phycology</i> , 2020, 32, 2605-2614.	1.5	3
16	Photoacclimation and Photoprotection of Juvenile Sporophytes of <i>Macrocystis pyrifera</i> (Laminariales, Phaeophyceae) Under High Light Conditions During Short-Term Shallow-water Cultivation. <i>Journal of Phycology</i> , 2020, 56, 380-392.	1.0	10
17	Restoring Pre-Industrial CO <sub>2</sub> Levels While Achieving Sustainable Development Goals. <i>Energies</i> , 2020, 13, 4972.	1.6	12
18	Effect of direct seeding binders and embryonic sporophyte sizes on the development of the sugar kelp, <i>Saccharina latissima</i> . <i>Journal of Applied Phycology</i> , 2020, 32, 4137-4143.	1.5	2

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19	Population Genetics of Sugar Kelp Throughout the Northeastern United States Using Genome-Wide Markers. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	24
20	Key Considerations for the Use of Seaweed to Reduce Enteric Methane Emissions From Cattle. <i>Frontiers in Veterinary Science</i> , 2020, 7, 597430.	0.9	66
21	Optimizing the application of selected biostimulants to enhance the growth of <i>Eucheumatopsis isiformis</i> , a carrageenophyte with commercial value, as grown in land-based nursery systems. <i>Journal of Applied Phycology</i> , 2020, 32, 1917-1922.	1.5	20
22	Macroalgal germplasm banking for conservation, food security, and industry. <i>PLoS Biology</i> , 2020, 18, e3000641.	2.6	49
23	The application of flow cytometry for kelp meiospore isolation. <i>Algal Research</i> , 2020, 46, 101810.	2.4	10
24	Preliminary assessment on the effects of the commercial seaweed extract, AMPEP, on growth and thermal tolerance of the kelp <i>Saccharina</i> spp. from the Northwest Atlantic. <i>Journal of Applied Phycology</i> , 2019, 31, 3823-3829.	1.5	21
25	Opportunities, challenges and future directions of open-water seaweed aquaculture in the United States. <i>Phycologia</i> , 2019, 58, 446-461.	0.6	93
26	Evaluation of the metal content of farm grown <i>Gracilaria tikvahiae</i> and <i>Saccharina latissima</i> from Long Island Sound and New York Estuaries. <i>Algal Research</i> , 2019, 40, 101484.	2.4	15
27	Characterization of agar from <i>Gracilaria tikvahiae</i> cultivated for nutrient bioextraction in open water farms. <i>Food Hydrocolloids</i> , 2019, 89, 260-271.	5.6	28
28	Thermal and light impacts on the early growth stages of the kelp <i>Saccharina angustissima</i> (Laminariales, Phaeophyceae). <i>Algae</i> , 2019, 34, 153-162.	0.9	15
29	Speciation in the exposed intertidal zone: the case of <i>Saccharina angustissima</i> comb. nov. & stat. nov. (Laminariales, Phaeophyceae). <i>Phycologia</i> , 2018, 57, 100-112.	0.6	28
30	Bioremediation and nutrient migration during blooms of <i>Ulva</i> in the Yellow Sea, China. <i>Phycologia</i> , 2018, 57, 223-231.	0.6	28
31	Land-based drip-irrigated culture of <i>Ulva compressa</i> : The effect of culture platform design and nutrient concentration on biomass production and protein content. <i>PLoS ONE</i> , 2018, 13, e0199287.	1.1	5
32	Application of open water integrated multi-trophic aquaculture to intensive monoculture: A review of the current status and challenges in Korea. <i>Aquaculture</i> , 2018, 497, 174-183.	1.7	47
33	Growth and nutrient bioextraction of <i>Gracilaria chorda</i> , <i>G. vermiculophylla</i> , <i>Ulva prolifera</i> , and <i>U. compressa</i> under hypo- and hyper-osmotic conditions. <i>Algae</i> , 2018, 33, 329-340.	0.9	15
34	Life history interactions between the red algae <i>Chondrus crispus</i> (Gigartinales) and <i>Grateloupia turuturu</i> (Halymeniales) in a changing global environment. <i>Phycologia</i> , 2017, 56, 176-185.	0.6	6
35	Cultivation of a morphologically distinct strain of the sugar kelp, <i>Saccharina latissima</i> forma <i>angustissima</i> , from coastal Maine, USA, with implications for ecosystem services. <i>Journal of Applied Phycology</i> , 2017, 29, 1967-1976.	1.5	46
36	Insights into the red algae and eukaryotic evolution from the genome of <i>Porphyra umbilicalis</i> (Bangiophyceae, Rhodophyta). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6361-E6370.	3.3	233

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37	The effects of temperature on the growth rate and nitrogen content of invasive <i>Gracilaria vermiculophylla</i> and native <i>Gracilaria tikvahiae</i> from Long Island Sound, USA. <i>Algae</i> , 2017, 32, 57-66.	0.9	28
38	Seaweed aquaculture: cultivation technologies, challenges and its ecosystem services. <i>Algae</i> , 2017, 32, 1-13.	0.9	328
39	Tracing the origin of green macroalgal blooms based on the large scale spatio-temporal distribution of <i>Ulva</i> microscopic propagules and settled mature <i>Ulva</i> vegetative thalli in coastal regions of the Yellow Sea, China. <i>Harmful Algae</i> , 2016, 59, 91-99.	2.2	38
40	Tolerances to hypo-osmotic and temperature stresses in native and invasive species of <i>Gracilaria</i> (Rhodophyta). <i>Phycologia</i> , 2016, 55, 257-264.	0.6	38
41	The expansion of <i>Ulva prolifera</i> O.F. MÅ¼ller macroalgal blooms in the Yellow Sea, PR China, through asexual reproduction. <i>Marine Pollution Bulletin</i> , 2016, 104, 101-106.	2.3	38
42	Prospects and challenges for industrial production of seaweed bioactives. <i>Journal of Phycology</i> , 2015, 51, 821-837.	1.0	197
43	Endemic <i>Pyropia</i> species (Bangiales, Rhodophyta) from the Gulf of California, Mexico. <i>Journal of Applied Phycology</i> , 2015, 27, 1029-1041.	1.5	5
44	Growth and reproductive responses of the conchocelis phase of <i>Pyropia hollenbergii</i> (Bangiales, Rhodophyta) in the Yellow Sea. <i>Journal of Applied Phycology</i> , 2015, 27, 1223-1234.	1.5	12
45	Growth and pigment content of <i>Gracilaria tikvahiae</i> McLachlan under fluorescent and LED lighting. <i>Aquaculture</i> , 2015, 436, 52-57.	1.7	49
46	Potential applications of nuisance microalgae blooms. <i>Journal of Applied Phycology</i> , 2015, 27, 1223-1234.	1.5	27
47	Nutrient Bioextraction. , 2015, , 1-33.		15
48	The origin of the <i>Ulva</i> macroalgal blooms in the Yellow Sea in 2013. <i>Marine Pollution Bulletin</i> , 2014, 89, 276-283.	2.3	82
49	Biology and Ecology of Long Island Sound. Springer Series on Environmental Management, 2014, , 285-479.	0.3	17
50	Field scale evaluation of seaweed aquaculture as a nutrient bioextraction strategy in Long Island Sound and the Bronx River Estuary. <i>Aquaculture</i> , 2014, 433, 148-156.	1.7	83
51	The appearance of <i>Ulva laetevirens</i> (Ulvophyceae, Chlorophyta) in the northeast coast of the United States of America. <i>Journal of Ocean University of China</i> , 2014, 13, 865-870.	0.6	6
52	Synthesis for Management. Springer Series on Environmental Management, 2014, , 481-539.	0.3	7
53	Development of a sustainable land-based <i>Gracilaria</i> cultivation system. <i>Algae</i> , 2014, 29, 217-225.	0.9	23
54	Nitrogen allocation of <i>Gracilaria tikvahiae</i> grown in urbanized estuaries of Long Island Sound and New York City, USA: a preliminary evaluation of ocean farmed <i>Gracilaria</i> for alternative fish feeds. <i>Algae</i> , 2014, 29, 227-235.	0.9	28

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55	Introduction of <i>Gracilaria vermiculophylla</i> (Rhodophyta, Gracilariales) to New England, USA: Estimated Arrival Times and Current Distribution. <i>Rhodora</i> , 2013, 115, 28-41.	0.0	29
56	Seaweed seaweed Aquaculture seaweed aquaculture for Human Foods in Land-Based and IMTA Systems. , 2013, , 1405-1424.		9
57	Emersion Induces Nitrogen Release and Alteration of Nitrogen Metabolism in the Intertidal Genus <i>Porphyra</i> . <i>PLoS ONE</i> , 2013, 8, e69961.	1.1	24
58	Size determination of <i>Ecklonia cava</i> for successful transplantation onto artificial seaweed reef. <i>Algae</i> , 2013, 28, 365-369.	0.9	9
59	Analysis of <i>Porphyra</i> Membrane Transporters Demonstrates Gene Transfer among Photosynthetic Eukaryotes and Numerous Sodium-Coupled Transport Systems. <i>Plant Physiology</i> , 2012, 158, 2001-2012.	2.3	35
60	<i>Porphyra</i> ( <i>Bangiophyceae</i> ) Transcriptomes Provide Insights Into Red Algal Development And Metabolism. <i>Journal of Phycology</i> , 2012, 48, 1328-1342.	1.0	56
61	Metabolic plasticity of nitrogen assimilation by <i>Porphyra umbilicalis</i> (Linnaeus) Kützting. <i>Journal of Ocean University of China</i> , 2012, 11, 517-526.	0.6	5
62	MAJOR DEVELOPMENTAL REGULATORS AND THEIR EXPRESSION IN TWO CLOSELY RELATED SPECIES OF <i>PORPHYRA</i> (RHODOPHYTA). <i>Journal of Phycology</i> , 2012, 48, 883-896.	1.0	19
63	Bait worm packaging as a potential vector of invasive species. <i>Biological Invasions</i> , 2012, 14, 481-493.	1.2	34
64	Life history of <i>Porphyra hollenbergii</i> Dawson ( <i>Bangiiales</i> , <i>Rhodophyta</i> ) from the Gulf of California, MÃ©xico. <i>Phycologia</i> , 2011, 50, 520-529.	0.6	2
65	Ecophysiological studies of the non-indigenous species <i>Gracilaria vermiculophylla</i> ( <i>Rhodophyta</i> ) and its abundance patterns in Ria de Aveiro lagoon, Portugal. <i>European Journal of Phycology</i> , 2011, 46, 453-464.	0.9	38
66	IMTA with <i>Gracilaria vermiculophylla</i> : Productivity and nutrient removal performance of the seaweed in a land-based pilot scale system. <i>Aquaculture</i> , 2011, 312, 77-87.	1.7	248
67	Interaction of photoperiod and temperature in the development of conchocelis of <i>Porphyra purpurea</i> ( <i>Rhodophyta</i> : <i>Bangiiales</i> ). <i>Journal of Applied Phycology</i> , 2011, 23, 89-96.	1.5	8
68	Development of a tide-simulating apparatus for macroalgae. <i>Algae</i> , 2010, 25, 37-44.	0.9	2
69	Research note: Comparison of growth and nitrate uptake by New England <i>Porphyra</i> species from different tidal elevations in relation to desiccation. <i>Phycological Research</i> , 2009, 57, 152-157.	0.8	30
70	Traditional vs. Integrated Multi-Trophic Aquaculture of <i>Gracilaria chilensis</i> C. J. Bird, J. McLachlan & E. C. Oliveira: Productivity and physiological performance. <i>Aquaculture</i> , 2009, 293, 211-220.	1.7	130
71	THE DISTRIBUTION, MORPHOLOGY, AND ECOLOGY OF THREE INTRODUCED ASIATIC SPECIES OF <i>PORPHYRA</i> ( <i>BANGIALES</i> , <i>RHODOPHYTA</i> ) IN THE NORTHWESTERN ATLANTIC. <i>Journal of Phycology</i> , 2008, 44, 1399-1414.	1.0	40
72	Physiological activity of <i>Porphyra</i> in relation to eulittoral zonation. <i>Journal of Experimental Marine Biology and Ecology</i> , 2008, 365, 75-85.	0.7	31

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73	Bioremediation efficiency in the removal of dissolved inorganic nutrients by the red seaweed, <i>Porphyra yezoensis</i> , cultivated in the open sea. <i>Water Research</i> , 2008, 42, 1281-1289.	5.3	118
74	Nitrogen uptake by gametophytes of <i>Porphyra dioica</i> (Bangiales, Rhodophyta) under controlled-culture conditions. <i>European Journal of Phycology</i> , 2008, 43, 107-118.	0.9	35
75	Seeding nets with neutral spores of the red alga <i>Porphyra umbilicalis</i> (L.) Kützting for use in integrated multi-trophic aquaculture (IMTA). <i>Aquaculture</i> , 2007, 270, 77-91.	1.7	38
76	The Need for a Balanced Ecosystem Approach to Blue Revolution Aquaculture. <i>Environment</i> , 2007, 49, 36-43.	0.8	83
77	Effects of temperature and ammonium on growth, pigment production and nitrogen uptake by four species of <i>Porphyra</i> (Bangiales, Rhodophyta) native to the New England coast. <i>Journal of Applied Phycology</i> , 2007, 19, 431-440.	1.5	102
78	The influence of stocking density, light and temperature on the growth, production and nutrient removal capacity of <i>Porphyra dioica</i> (Bangiales, Rhodophyta). <i>Aquaculture</i> , 2006, 252, 66-78.	1.7	47
79	The developmental regulation of mass cultures of free-living conchocelis for commercial net seeding of <i>Porphyra leucosticta</i> from Northeast America. <i>Aquaculture</i> , 2006, 257, 373-381.	1.7	41
80	Evaluation of the bioremediatory potential of several species of the red alga <i>Porphyra</i> using short-term measurements of nitrogen uptake as a rapid bioassay. <i>Journal of Applied Phycology</i> , 2004, 16, 489-497.	1.5	40
81	New life cycles of <i>Porphyra katadae</i> var. <i>hemiphylla</i> in culture. <i>Journal of Applied Phycology</i> , 2004, 16, 505-511.	1.5	9
82	Integrated aquaculture: rationale, evolution and state of the art emphasizing seaweed biofiltration in modern mariculture. <i>Aquaculture</i> , 2004, 231, 361-391.	1.7	773
83	Field and culture studies of the life history of <i>Porphyra dioica</i> (Bangiales, Rhodophyta) from Portugal. <i>Phycologia</i> , 2004, 43, 756-767.	0.6	22
84	Identification of north-western Atlantic <i>Porphyra</i> (Bangiaceae, Bangiales) based on sequence variation in nuclear SSU and plastid <i>rbcL</i> genes. <i>Phycologia</i> , 2003, 42, 109-122.	0.6	61
85	Application of Seaweed Cultivation to the Bioremediation of Nutrient-Rich Effluent. <i>Algae</i> , 2002, 17, 187-194.	0.9	68
86	PORPHYRA BIRDIAE SP. NOV. (BANGIALES, RHODOPHYTA): A NEW SPECIES FROM THE NORTHWEST ATLANTIC. <i>Algae</i> , 2002, 17, 203-216.	0.9	31
87	INTEGRATING SEAWEEDS INTO MARINE AQUACULTURE SYSTEMS: A KEY TOWARD SUSTAINABILITY. <i>Journal of Phycology</i> , 2001, 37, 975-986.	1.0	583
88	Title is missing!. <i>Journal of Applied Phycology</i> , 2000, 12, 99-99.	1.5	8
89	A preliminary comparison of the mariculture potential of <i>Porphyra purpurea</i> and <i>Porphyra umbilicalis</i> . <i>Journal of Applied Phycology</i> , 1999, 11, 473-477.	1.5	16
90	Title is missing!. <i>Journal of Applied Phycology</i> , 1999, 11, 463-472.	1.5	127

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91	BOUDEWIJN H. BRINKHUIS (1946–1989). <i>Phycologia</i> , 1990, 29, 385-387.	0.6	0
92	Observations on marine Chaetophoraceae (Chlorophyta). <i>Phycologia</i> , 1981, 20, 32-45.	0.6	33
93	The effects of salinity, and calcium and potassium variations on the growth of two estuarine red algae. <i>Journal of Experimental Marine Biology and Ecology</i> , 1980, 47, 235-249.	0.7	37
94	OBSERVATIONS ON MARINE CHAETOPHORACEAE (CHLOROPHYTA). I. SPORANGIAL ONTOGENY IN THE TYPE SPECIES OF ENTOCLADIA AND PHAEOPHILA1. <i>Journal of Phycology</i> , 1980, 16, 549-558.	1.0	2
95	A CULTURE STUDY OF SALINITY RESPONSES IN ECOTYPES OF TWO ESTUARINE RED ALGAE. <i>Journal of Phycology</i> , 1979, 15, 341-346.	1.0	3
96	Polymorphism of selected marine Chaetophoraceae (Chlorophyta). <i>British Phycological Journal</i> , 1976, 11, 29-38.	1.3	34
97	Concise review of the genus <i>Neopyropia</i> (Rhodophyta: Bangiales). <i>Journal of Applied Phycology</i> , 0, , .	1.5	6