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	Integrated aquaculture: rationale, evolution and state of the art emphasizing seaweed biofiltration in modern mariculture. Aquaculture, 2004, 231, 361-391.	1.7	773
2	INTEGRATING SEAWEEDS INTO MARINE AQUACULTURE SYSTEMS: A KEY TOWARD SUSTAINABILITY. Journal of Phycology, 2001, 37, 975-986.	1.0	583
3	Seaweed aquaculture: cultivation technologies, challenges and its ecosystem services. Algae, 2017, 32, 1-13.	0.9	328
4	IMTA with Gracilaria vermiculophylla: Productivity and nutrient removal performance of the seaweed in a land-based pilot scale system. Aquaculture, 2011, 312, 77-87.	1.7	248
5	Insights into the red algae and eukaryotic evolution from the genome of Porphyra umbilicalis (Bangiophyceae, Rhodophyta). Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6361-E6370.	3.3	233
6	Prospects and challenges for industrial production of seaweed bioactives. Journal of Phycology, 2015, 51, 821-837.	1.0	197
7	Traditional vs. Integrated Multi-Trophic Aquaculture of Gracilaria chilensis C. J. Bird, J. McLachlan & E. C. Oliveira: Productivity and physiological performance. Aquaculture, 2009, 293, 211-220.	1.7	130
8	Title is missing!. Journal of Applied Phycology, 1999, 11, 463-472.	1.5	127
9	Bioremediation efficiency in the removal of dissolved inorganic nutrients by the red seaweed, Porphyra yezoensis, cultivated in the open sea. Water Research, 2008, 42, 1281-1289.	5.3	118
10	Effects of temperature and ammonium on growth, pigment production and nitrogen uptake by four species of Porphyra (Bangiales, Rhodophyta) native to the New England coast. Journal of Applied Phycology, 2007, 19, 431-440.	1.5	102
11	Opportunities, challenges and future directions of open-water seaweed aquaculture in the United States. Phycologia, 2019, 58, 446-461.	0.6	93
12	The Need for a Balanced Ecosystem Approach to Blue Revolution Aquaculture. Environment, 2007, 49, 36-43.	0.8	83
13	Field scale evaluation of seaweed aquaculture as a nutrient bioextraction strategy in Long Island Sound and the Bronx River Estuary. Aquaculture, 2014, 433, 148-156.	1.7	83
14	The origin of the Ulva macroalgal blooms in the Yellow Sea in 2013. Marine Pollution Bulletin, 2014, 89, 276-283.	2.3	82
15	Application of Seaweed Cultivation to the Bioremediation of Nutrient-Rich Effluent. Algae, 2002, 17, 187-194.	0.9	68
16	Key Considerations for the Use of Seaweed to Reduce Enteric Methane Emissions From Cattle. Frontiers in Veterinary Science, 2020, 7, 597430.	0.9	66
17	Identification of north-western Atlantic Porphyra (Bangiaceae, Bangiales) based on sequence variation in nuclear SSU and plastid rbcL genes. Phycologia, 2003, 42, 109-122.	0.6	61
18	Porphyra (Bangiophyceae) Transcriptomes Provide Insights Into Red Algal Development And Metabolism. Journal of Phycology, 2012, 48, 1328-1342.	1.0	56

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19	Growth and pigment content of Gracilaria tikvahiae McLachlan under fluorescent and LED lighting. Aquaculture, 2015, 436, 52-57.	1.7	49
20	Macroalgal germplasm banking for conservation, food security, and industry. PLoS Biology, 2020, 18, e3000641.	2.6	49
21	The influence of stocking density, light and temperature on the growth, production and nutrient removal capacity of Porphyra dioica (Bangiales, Rhodophyta). Aquaculture, 2006, 252, 66-78.	1.7	47
22	Application of open water integrated multi-trophic aquaculture to intensive monoculture: A review of the current status and challenges in Korea. Aquaculture, 2018, 497, 174-183.	1.7	47
23	Cultivation of a morphologically distinct strain of the sugar kelp, Saccharina latissima forma angustissima, from coastal Maine, USA, with implications for ecosystem services. Journal of Applied Phycology, 2017, 29, 1967-1976.	1.5	46
24	The developmental regulation of mass cultures of free-living conchocelis for commercial net seeding of Porphyra leucosticta from Northeast America. Aquaculture, 2006, 257, 373-381.	1.7	41
25	Evaluation of the bioremediatory potential of several species of the red alga Porphyra using short-term measurements of nitrogen uptake as a rapid bioassay. Journal of Applied Phycology, 2004, 16, 489-497.	1.5	40
26	THE DISTRIBUTION, MORPHOLOGY, AND ECOLOGY OF THREE INTRODUCED ASIATIC SPECIES OF PORPHYRA (BANGIALES, RHODOPHYTA) IN THE NORTHWESTERN ATLANTIC¹. Journal of Phycology, 2008, 44, 1399-1414.	1.0	40
27	Seeding nets with neutral spores of the red alga Porphyra umbilicalis (L.) KÃ¼tzing for use in integrated multi-trophic aquaculture (IMTA). Aquaculture, 2007, 270, 77-91.	1.7	38
28	Ecophysiological studies of the non-indigenous speciesGracilaria vermiculophylla(Rhodophyta) and its abundance patterns in Ria de Aveiro lagoon, Portugal. European Journal of Phycology, 2011, 46, 453-464.	0.9	38
29	Tracing the origin of green macroalgal blooms based on the large scale spatio-temporal distribution of Ulva microscopic propagules and settled mature Ulva vegetative thalli in coastal regions of the Yellow Sea, China. Harmful Algae, 2016, 59, 91-99.	2.2	38
30	Tolerances to hypo-osmotic and temperature stresses in native and invasive species of Gracilaria (Rhodophyta). Phycologia, 2016, 55, 257-264.	0.6	38
31	The expansion of Ulva prolifera O.F. MÃ¼ller macroalgal blooms in the Yellow Sea, PR China, through asexual reproduction. Marine Pollution Bulletin, 2016, 104, 101-106.	2.3	38
32	The effects of salinity, and calcium and potassium variations on the growth of two estuarine red algae. Journal of Experimental Marine Biology and Ecology, 1980, 47, 235-249.	0.7	37
33	Nitrogen uptake by gametophytes ofPorphyra dioica(Bangiales, Rhodophyta) under controlled-culture conditions. European Journal of Phycology, 2008, 43, 107-118.	0.9	35
34	Analysis of Porphyra Membrane Transporters Demonstrates Gene Transfer among Photosynthetic Eukaryotes and Numerous Sodium-Coupled Transport Systems Â Â Â. Plant Physiology, 2012, 158, 2001-2012.	2.3	35
35	Polymorphism of selected marine Chaetophoraceae (Chlorophyta). British Phycological Journal, 1976, 11, 29-38.	1.3	34
36	Bait worm packaging as a potential vector of invasive species. Biological Invasions, 2012, 14, 481-493.	1.2	34

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37	Observations on marine Chaetophoraceae (Chlorophyta). Phycologia, 1981, 20, 32-45.	0.6	33
38	Physiological activity of Porphyra in relation to eulittoral zonation. Journal of Experimental Marine Biology and Ecology, 2008, 365, 75-85.	0.7	31
39	PORPHYRA BIRDIAE SP. NOV. (BANGIALES, RHODOPHYTA): A NEW SPECIES FROM THE NORTHWEST ATLANTIC. Algae, 2002, 17, 203-216.	0.9	31
40	Research note: Comparison of growth and nitrate uptake by New England Porphyra species from different tidal elevations in relation to desiccation. Phycological Research, 2009, 57, 152-157.	0.8	30
41	Introduction ofGracilaria vermiculophylla(Rhodophyta, Gracilariales) to New England, USA: Estimated Arrival Times and Current Distribution. Rhodora, 2013, 115, 28-41.	0.0	29
42	Speciation in the exposed intertidal zone: the case ofSaccharina angustissima comb. nov. &stat. nov. (Laminariales, Phaeophyceae). Phycologia, 2018, 57, 100-112.	0.6	28
43	Bioremediation and nutrient migration during blooms ofUlvain the Yellow Sea, China. Phycologia, 2018, 57, 223-231.	0.6	28
44	Characterization of agar from Gracilaria tikvahiae cultivated for nutrient bioextraction in open water farms. Food Hydrocolloids, 2019, 89, 260-271.	5.6	28
45	Nitrogen allocation of Gracilaria tikvahiae grown in urbanized estuaries of Long Island Sound and New York City, USA: a preliminary evaluation of ocean farmed Gracilaria for alternative fish feeds. Algae, 2014, 29, 227-235.	0.9	28
46	The effects of temperature on the growth rate and nitrogen content of invasive Gracilaria vermiculophylla and native Gracilaria tikvahiae from Long Island Sound, USA. Algae, 2017, 32, 57-66.	0.9	28
47	Potential applications of nuisance microalgae blooms. Journal of Applied Phycology, 2015, 27, 1223-1234.	1.5	27
48	Emersion Induces Nitrogen Release and Alteration of Nitrogen Metabolism in the Intertidal Genus Porphyra. PLoS ONE, 2013, 8, e69961.	1.1	24
49	Population Genetics of Sugar Kelp Throughout the Northeastern United States Using Genome-Wide Markers. Frontiers in Marine Science, 2020, 7, .	1.2	24
50	Development of a sustainable land-based Gracilaria cultivation system. Algae, 2014, 29, 217-225.	0.9	23
51	Field and culture studies of the life history of Porphyra dioica (Bangiales, Rhodophyta) from Portugal. Phycologia, 2004, 43, 756-767.	0.6	22
52	Preliminary assessment on the effects of the commercial seaweed extract, AMPEP, on growth and thermal tolerance of the kelp Saccharina spp. from the Northwest Atlantic. Journal of Applied Phycology, 2019, 31, 3823-3829.	1.5	21
53	Optimizing the application of selected biostimulants to enhance the growth of Eucheumatopsis isiformis, a carrageenophyte with commercial value, as grown in land-based nursery systems. Journal of Applied Phycology, 2020, 32, 1917-1922.	1.5	20
54	MAJOR DEVELOPMENTAL REGULATORS AND THEIR EXPRESSION IN TWO CLOSELY RELATED SPECIES OF PORPHYRA (RHODOPHYTA)¹. Journal of Phycology, 2012, 48, 883-896.	1.0	19

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55	Evaluation of nutrient bioextraction by seaweed and shellfish aquaculture in Korea. Journal of the World Aquaculture Society, 2021, 52, 1118-1134.	1.2	19
56	Biology and Ecology of Long Island Sound. Springer Series on Environmental Management, 2014, , 285-479.	0.3	17
57	A preliminary comparison of the mariculture potential of Porphyra purpurea and Porphyra umbilicalis. Journal of Applied Phycology, 1999, 11, 473-477.	1.5	16
58	Evaluation of the metal content of farm grown Gracilaria tikvahiae and Saccharina latissima from Long Island Sound and New York Estuaries. Algal Research, 2019, 40, 101484.	2.4	15
59	Nutrient Bioextraction. , 2015, , 1-33.		15
60	Growth and nutrient bioextraction of Gracilaria chorda, G. vermiculophylla, Ulva prolifera, and U. compressa under hypo- and hyper-osmotic conditions. Algae, 2018, 33, 329-340.	0.9	15
61	Thermal and light impacts on the early growth stages of the kelp Saccharina angustissima (Laminariales, Phaeophyceae). Algae, 2019, 34, 153-162.	0.9	15
62	Responses of the germination and growth of Ulva prolifera parthenogametes, the causative species of green tides, to gradients of temperature and light. Aquatic Botany, 2021, 170, 103343.	0.8	14
63	Seasonal and interannual production of sea lettuce (Ulva sp.) in outdoor cultures based on commercial size ponds. Journal of the World Aquaculture Society, 2021, 52, 1047-1058.	1.2	13
64	Comparative analysis of morphometric traits of farmed sugar kelp and skinny kelp, Saccharina spp., strains from the Northwest Atlantic. Journal of the World Aquaculture Society, 2021, 52, 1059-1068.	1.2	13
65	Growth and reproductive responses of the conchocelis phase of Pyropia hollenbergii (Bangiales,) Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	12
66	Restoring Pre-Industrial CO2 Levels While Achieving Sustainable Development Goals. Energies, 2020, 13, 4972.	1.6	12
67	Kelps in Korea: from population structure to aquaculture to potential carbon sequestration. Algae, 2022, 37, 85-103.	0.9	12
68	Photoacclimation and Photoprotection of Juvenile Sporophytes of Macrocystis pyrifera (Laminariales, Phaeophyceae) Under Highâ€light Conditions During Shortâ€term Shallowâ€water Cultivation¹. Journal of Phycology, 2020, 56, 380-392.	1.0	10
69	The application of flow cytometry for kelp meiospore isolation. Algal Research, 2020, 46, 101810.	2.4	10
70	Germplasm cryopreservation of macroalgae for aquaculture breeding and natural resource conservation: A review. Aquaculture, 2021, 544, 737037.	1.7	10
71	Seaweed aquacultureâ€"From historic trends to current innovation. Journal of the World Aquaculture Society, 2021, 52, 1004-1008.	1.2	10
72	New life cycles of Porphyra katadae var. hemiphylla in culture. Journal of Applied Phycology, 2004, 16, 505-511.	1.5	9

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73	Seaweed seaweed Aquaculture seaweed aquaculture for Human Foods in Land-Based and IMTA Systems. , 2013, , 1405-1424.		9
74	Size determination of Ecklonia cava for successful transplantation onto artificial seaweed reef. Algae, 2013, 28, 365-369.	0.9	9
75	Title is missing!. Journal of Applied Phycology, 2000, 12, 99-99.	1.5	8
76	Interaction of photoperiod and temperature in the development of conchocelis of Porphyra purpurea (Rhodophyta: Bangiales). Journal of Applied Phycology, 2011, 23, 89-96.	1.5	8
77	A comparison of physiological responses between attached and pelagic populations of Sargassum horneri under nutrient and light limitation. Marine Environmental Research, 2022, 173, 105544.	1.1	8
78	Synthesis for Management. Springer Series on Environmental Management, 2014, , 481-539.	0.3	7
79	Simulation of sugar kelp (Saccharina latissima) breeding guided by practices to accelerate genetic gains. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	7
80	Effects of extraction methods for a new source of biostimulant from Sargassum horneri on the growth of economically important red algae, Neopyropia yezoensis. Scientific Reports, 2022, 12, .	1.6	7
81	The appearance of Ulva laetevirens (Ulvophyceae, Chlorophyta) in the northeast coast of the United States of America. Journal of Ocean University of China, 2014, 13, 865-870.	0.6	6
82	Life history interactions between the red algaeChondrus crispus(Gigartinales) andGrateloupia turuturu(Halymeniales) in a changing global environment. Phycologia, 2017, 56, 176-185.	0.6	6
83	Concise review of the genus Neopyropia (Rhodophyta: Bangiales). Journal of Applied Phycology, 0, , .	1.5	6
84	Metabolic plasticity of nitrogen assimilation by Porphyra umbilicalis (Linnaeus) KÃ¼tzing. Journal of Ocean University of China, 2012, 11, 517-526.	0.6	5
85	Endemic Pyropia species (Bangiales, Rhodophyta) from the Gulf of California, Mexico. Journal of Applied Phycology, 2015, 27, 1029-1041.	1.5	5
86	Land-based drip-irrigated culture of Ulva compressa: The effect of culture platform design and nutrient concentration on biomass production and protein content. PLoS ONE, 2018, 13, e0199287.	1.1	5
87	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 Neopyropia yezoensis?. Algal Research, 2022, 64, 102692.	2.4	5
88	Effects of stocking density on the productivity and nutrient removal of Agarophyton vermiculophyllum in Paralichthys olivaceus biofloc effluent. Journal of Applied Phycology, 2020, 32, 2605-2614.	1.5	3
89	A CULTURE STUDY OF SALINITY RESPONSES IN ECOTYPES OF TWO ESTUARINE RED ALGAE. Journal of Phycology, 1979, 15, 341-346.	1.0	3
90	Enhancements provided by the use of an Ascophyllum nodosum extract can be transferred through archeospores in the red alga Neopyropia yezoensis (Ueda) L.-E. Yang & J. Brodie. Aquatic Botany, 2022, 177, 103481.	0.8	3

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91	Comparative Analysis of Physiological Responses in Two Ulva prolifera Strains Revealed the Effect of Eutrophication on High Temperature and Copper Stress Tolerance. Frontiers in Marine Science, 2022, 9, .	1.2	3
92	Life history of Porphyra hollenbergii Dawson (Bangiales, Rhodophyta) from the Gulf of California, MÃ©xico. Phycologia, 2011, 50, 520-529.	0.6	2
93	Effect of direct â€œseedingâ€•binders and embryonic sporophyte sizes on the development of the sugar kelp, Saccharina latissima. Journal of Applied Phycology, 2020, 32, 4137-4143.	1.5	2
94	Development of a tide-simulating apparatus for macroalgae. Algae, 2010, 25, 37-44.	0.9	2
95	OBSERVATIONS ON MARINE CHAETOPHORACEAE (CHLOROPHYTA). I. SPORANGIAL ONTOGENY IN THE TYPE SPECIES OF ENTOCLADIA AND PHAEOPHILA1. Journal of Phycology, 1980, 16, 549-558.	1.0	2
96	Effects of the ultraviolet filter oxybenzone on physiological responses in a red macroalga, Gracilaria vermiculophylla. Aquatic Botany, 2022, 179, 103514.	0.8	2
97	BOUDEWIJN H. BRINKHUIS (1946â€“1989). Phycologia, 1990, 29, 385-387.	0.6	0