

# ValÃ©rie Stiger-Pouvreau

## List of Publications by Year in descending order

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65  
papers

2,662  
citations

172457

29  
h-index

197818

49  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2508  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antioxidant and antitumoural activities of some Phaeophyta from Brittany coasts. Food Chemistry, 2009, 116, 693-701.	8.2	198
2	Interspecific and temporal variation in phlorotannin levels in an assemblage of brown algae. Botanica Marina, 2004, 47, .	1.2	164
3	Anti-proliferative activity and chemical characterization by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry of phlorotannins from the brown macroalga <i>Sargassum muticum</i> collected on North-Atlantic coasts. Journal of Chromatography A, 2016, 1428, 115-125.	3.7	116
4	Spatial and seasonal variation in density, reproductive status, length and phenolic content of the invasive brown macroalga <i>Sargassum muticum</i> (Yendo) Fensholt along the coast of Western Brittany (France). Aquatic Botany, 2006, 85, 337-344.	1.6	111
5	Considerations on the use of enzyme-assisted extraction in combination with pressurized liquids to recover bioactive compounds from algae. Food Chemistry, 2016, 192, 67-74.	8.2	108
6	Effect of different conditioning treatments on total phenolic content and antioxidant activities in two Sargassacean species: Comparison of the frondose <i>Sargassum muticum</i> (Yendo) Fensholt and the cylindrical <i>Bifurcaria bifurcata</i> R. Ross. Phycological Research, 2008, 56, 238-245.	1.6	87
7	Phenolic contents of two brown algae, <i>Turbinaria ornata</i> and <i>Sargassum mangarevense</i> on Tahiti (French Polynesia): interspecific, ontogenic and spatio-temporal variations. Botanica Marina, 2004, 47, .	1.2	80
8	Structure/Function Analysis of a Type III Polyketide Synthase in the Brown Alga <i>Ectocarpus siliculosus</i> Reveals a Biochemical Pathway in Phlorotannin Monomer Biosynthesis. Plant Cell, 2013, 25, 3089-3103.	6.6	76
9	Biochemical and antiviral activities of enzymatic hydrolysates from different invasive French seaweeds. Journal of Applied Phycology, 2014, 26, 1029-1042.	2.8	75
10	Sunscreen, antioxidant, and bactericide capacities of phlorotannins from the brown macroalga <i>Halidrys siliquosa</i> . Journal of Applied Phycology, 2016, 28, 3547-3559.	2.8	73
11	Carbohydrates From Seaweeds. , 2016, , 223-274.		71
12	Anti-microfouling Activity of Lipidic Metabolites from the Invasive Brown Alga <i>Sargassum muticum</i> (Yendo) Fensholt. Marine Biotechnology, 2010, 12, 52-61.	2.4	70
13	Spatial and temporal patterns of settlement of the brown macroalgae <i>Turbinaria ornata</i> and <i>Sargassum mangarevense</i> in a coral reef on Tahiti. Marine Ecology - Progress Series, 1999, 191, 91-100.	1.9	64
14	From In Situ to satellite observations of pelagic <i>Sargassum</i> distribution and aggregation in the Tropical North Atlantic Ocean. PLoS ONE, 2019, 14, e0222584.	2.5	63
15	Phylogenetic relationships within the genus <i>Sargassum</i> (Fucales, Phaeophyceae), inferred from ITS-2 nrDNA, with an emphasis on the taxonomic subdivision of the genus. Phycological Research, 2003, 51, 1-10.	1.6	63
16	Anti-microfouling activities in extracts of two invasive algae: <i>Grateloupia turuturu</i> and <i>Sargassum muticum</i> . Botanica Marina, 2008, 51, 202-208.	1.2	61
17	Photo-protective compounds in red macroalgae from Brittany: Considerable diversity in mycosporine-like amino acids (MAAs). Marine Environmental Research, 2019, 147, 37-48.	2.5	61
18	Total phenolic, size-fractionated phenolics and fucoxanthin content of tropical Sargassaceae (Fucales, Phaeophyceae) from the South Pacific Ocean: Spatial and specific variability. Phycological Research, 2012, 60, 37-50.	1.6	51

#	ARTICLE	IF	CITATIONS
19	TAXONOMIC REVISION OF <i>SARGASSUM</i> (FUCALES, PHAEOPHYCEAE) FROM FRENCH POLYNESIA BASED ON MORPHOLOGICAL AND MOLECULAR ANALYSES. <i>Journal of Phycology</i> , 2008, 44, 1541-1555.	2.3	50
20	Marine green macroalgae: a source of natural compounds with mineralogenic and antioxidant activities. <i>Journal of Applied Phycology</i> , 2017, 29, 575-584.	2.8	50
21	NMR use to quantify phlorotannins: The case of <i>Cystoseira tamariscifolia</i> , a phloroglucinol-producing brown macroalga in Brittany (France). <i>Talanta</i> , 2015, 135, 1-6.	5.5	49
22	Title is missing!. <i>Journal of Applied Phycology</i> , 2000, 12, 257-262.	2.8	46
23	Phlorotannins in Sargassaceae Species from Brittany (France). <i>Advances in Botanical Research</i> , 2014, 71, 379-411.	1.1	45
24	Phenology, TPC and size-fractioning phenolics variability in temperate Sargassaceae (Phaeophyceae). <i>Journal of Applied Phycology</i> , 2012, 80, 1-11.	2.5	41
25	Structural elucidation, in vitro antioxidant and photoprotective capacities of a purified polyphenolic-enriched fraction from a saltmarsh plant. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 143, 52-60.	3.8	41
26	The stressful life of red and brown seaweeds on the temperate intertidal zone: effect of abiotic and biotic parameters on the physiology of macroalgae and content variability of particular metabolites. <i>Advances in Botanical Research</i> , 2020, 95, 247-287.	1.1	37
27	Assessment of the spatial variability of phenolic contents and associated bioactivities in the invasive alga <i>Sargassum muticum</i> sampled along its European range from Norway to Portugal. <i>Journal of Applied Phycology</i> , 2013, 26, 1215.	2.8	35
28	LC/ESI-MSn and 1H HR-MAS NMR analytical methods as useful taxonomical tools within the genus <i>Cystoseira</i> C. Agardh (Fucales; Phaeophyceae). <i>Talanta</i> , 2010, 83, 613-622.	5.5	34
29	Extraction and Purification of Phlorotannins from Brown Algae. <i>Methods in Molecular Biology</i> , 2015, 1308, 131-143.	0.9	31
30	Active phlorotannins from seven brown seaweeds commercially harvested in Brittany (France) detected by 1H NMR and in vitro assays: temporal variation and potential valorization in cosmetic applications. <i>Journal of Applied Phycology</i> , 2020, 32, 2375-2386.	2.8	31
31	<i>Sargassum boreale</i> sp. nov. (Fucales, Phaeophyceae) from Hokkaido, Japan. <i>Phycological Research</i> , 2000, 48, 125-131.	1.6	30
32	Phylogenetic relationships of <i>Sargassum</i> (Sargassaceae, Phaeophyceae) with reference to a taxonomic revision of the section <i>Phyllocystae</i> based on ITS-2 nrDNA sequences. <i>Phycological Research</i> , 2000, 48, 251-260.	1.6	30
33	Seasonal biomass and alginate stock assessment of three abundant genera of brown macroalgae using multispectral high resolution satellite remote sensing: A case study at Eras Bay (Lombok, Indonesia). <i>Marine Pollution Bulletin</i> , 2018, 131, 40-48.	5.0	29
34	The silent spring of <i>Sargassum</i> . <i>Environmental Science and Pollution Research</i> , 2021, 28, 15580-15583.	5.3	29
35	Rapid geographical differentiation of the European spread brown macroalga <i>Sargassum muticum</i> using HRMAS NMR and Fourier-Transform Infrared spectroscopy. <i>Talanta</i> , 2015, 132, 451-456.	5.5	28
36	Percentage cover, biomass, distribution, and potential habitat mapping of natural macroalgae, based on high-resolution satellite data and in situ monitoring, at Libukang Island, Malasoro Bay, Indonesia. <i>Journal of Applied Phycology</i> , 2018, 30, 159-171.	2.8	27

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37	Natural settlement dynamics of a young population of <i>Turbinaria ornata</i> and phenological comparisons with older populations. <i>Aquatic Botany</i> , 2005, 81, 225-243.	1.6	25
38	Seasonal antibacterial activity of two red seaweeds, <i>Palmaria palmata</i> and <i>Grateloupia turuturu</i> , on European abalone pathogen <i>Vibrio harveyi</i> . <i>Aquatic Living Resources</i> , 2014, 27, 83-89.	1.2	25
39	Multiple effects of a <i>Gracilaria vermiculophylla</i> invasion on estuarine mudflat functioning and diversity. <i>Marine Environmental Research</i> , 2017, 131, 227-235.	2.5	24
40	Discrimination of allied species within the genus <i>Turbinaria</i> (Fucales, Phaeophyceae) using HRMAS NMR spectroscopy. <i>Talanta</i> , 2008, 74, 1079-1083.	5.5	21
41	Macroalgal diversity for sustainable biotechnological development in French tropical overseas territories. <i>Botanica Marina</i> , 2020, 63, 17-41.	1.2	21
42	Laccase-like activity in the hemolymph of <i>Venerupis philippinarum</i> : Characterization and kinetic properties. <i>Fish and Shellfish Immunology</i> , 2013, 35, 1804-1812.	3.6	20
43	Temporal variation in pigment and mycosporine-like amino acid composition of the red macroalga <i>Palmaria palmata</i> from Brittany (France): hypothesis on the MAA biosynthesis pathway under high irradiance. <i>Journal of Applied Phycology</i> , 2020, 32, 2641-2656.	2.8	20
44	Marine Species Introduced on the French Channel-Atlantic Coasts: A Review of Main Biological Invasions and Impacts. <i>Open Journal of Ecology</i> , 2015, 05, 227-257.	1.0	20
45	Isolation of Cholest-5-en-3-ol formate from the red alga <i>Grateloupia turuturu</i> Yamada and its chemotaxonomic significance. <i>Biochemical Systematics and Ecology</i> , 2006, 34, 714-717.	1.3	19
46	Molecular and morphological relationships between two closely related species, <i>Turbinaria ornata</i> and <i>T. conoides</i> (Sargassaceae, Phaeophyceae). <i>Biochemical Systematics and Ecology</i> , 2007, 35, 91-98.	1.3	19
47	Seasonal phenology and metabolomics of the introduced red macroalga <i>Gracilaria vermiculophylla</i> , monitored in the Bay of Brest (France). <i>Journal of Applied Phycology</i> , 2017, 29, 2651-2666.	2.8	18
48	Indonesian <i>Sargassum</i> species bioprospecting: potential applications of bioactive compounds and challenge for sustainable development. <i>Advances in Botanical Research</i> , 2020, 95, 113-161.	1.1	13
49	Phylogenetic relationships within the genus <i>Sargassum</i> (Fucales, Phaeophyceae), inferred from ITS-2 nrDNA, with an emphasis on the taxonomic subdivision of the genus. <i>Phycological Research</i> , 2003, 51, 1-10.	1.6	13
50	Spatiotemporal variations of diterpene production in the brown macroalga <i>Bifurcaria bifurcata</i> from the western coasts of Brittany (France). <i>Journal of Applied Phycology</i> , 2014, 26, 1207-1214.	2.8	11
51	In situ variability of carrageenan content and biomass in the cultivated red macroalga <i>Kappaphycus alvarezii</i> with an estimation of its carrageenan stock at the scale of the Malasoro Bay (Indonesia) using satellite image processing. <i>Journal of Applied Phycology</i> , 2017, 29, 2307-2321.	2.8	11
52	Optimization of floridoside production in the red alga <i>Mastocarpus stellatus</i> : pre-conditioning, extraction and seasonal variations. <i>Botanica Marina</i> , 2007, 50, .	1.2	10
53	Isolation of turbinaric acid as a chemomarker of <i>Turbinaria conoides</i> (J. Agardh) Kützting from South Pacific Islands. <i>Journal of Phycology</i> , 2014, 50, 1048-1057.	2.3	9
54	Impact of nine macroalgal diets on growth and initial reproductive investment in juvenile abalone <i>Haliotis tuberculata</i> . <i>Aquaculture</i> , 2019, 513, 734385.	3.5	9

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55	<i>Haliotis tuberculata</i> , a generalist marine herbivore that prefers a mixed diet, but with consistent individual foraging activity. <i>Ethology</i> , 2020, 126, 716-726.	1.1	9
56	A comprehensive review of the brown macroalgal genus <i>Turbinaria</i> J.V. Lamouroux (Fucales). <i>Journal of Applied Phycology</i> , 2020, 32, 2343-2362.	2.8	8
57	Phlorotannin and Pigment Content of Native Canopy-Forming Sargassaceae Species Living in Intertidal Rockpools in Brittany (France): Any Relationship with Their Vertical Distribution and Phenology?. <i>Marine Drugs</i> , 2021, 19, 504.	4.6	8
58	Phylogenetic relationships of <i>Sargassum</i> (Sargassaceae, Phaeophyceae) with reference to a taxonomic revision of the section <i>Phyllocystae</i> based on ITS-2 nrDNA sequences. <i>Phycological Research</i> , 2000, 48, 251-260.	1.6	8
59	Meroditerpene from <i>Cystoseira nodicaulis</i> and its taxonomic significance. <i>Biochemical Systematics and Ecology</i> , 2012, 44, 202-204.	1.3	7
60	Potential of tropical macroalgae from French Polynesia for biotechnological applications. <i>Journal of Applied Phycology</i> , 2020, 32, 2343-2362.	2.8	7
61	Antioxidant, Mineralogenic and Osteogenic Activities of <i>Spartina alterniflora</i> and <i>Salicornia fragilis</i> Extracts Rich in Polyphenols. <i>Frontiers in Nutrition</i> , 2021, 8, 719438.	3.7	6
62	<i>Sargassum boreale</i> sp. nov. (Fucales, Phaeophyceae) from Hokkaido, Japan. <i>Phycological Research</i> , 2000, 48, 125-131.	1.6	6
63	Habitat-related allelic variation revealed by an anonymous DNA locus in reef-dwelling <i>Turbinaria ornata</i> (Fucales, Phaeophyceae). <i>Botanica Marina</i> , 2010, 53, 189-192.	1.2	5
64	Seasonal variation in the antivibrio activity of two organic extracts from two red seaweeds: <i>Palmaria palmata</i> and the introduced <i>Grateloupia turuturu</i> against the abalone pathogen <i>Vibrio harveyi</i> . <i>Aquatic Living Resources</i> , 2015, 28, 81-87.	1.2	5
65	A New Protocol Using Acidification for Preserving DMSP in Macroalgae and Comparison with Existing Protocols. <i>Journal of Phycology</i> , 2021, 57, 689-693.	2.3	2