

Patrick Flammang

List of Publications by Year in descending order

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103
papers

2,790
citations

172457

29
h-index

243625

44
g-index

110
all docs

110
docs citations

110
times ranked

2239
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave-Assisted Desulfation of the Hemolytic Saponins Extracted from <i>Holothuria scabra</i> Viscera. <i>Molecules</i> , 2022, 27, 537.	3.8	9
2	Crinoid anthraquinones as kairomones allowing host selection for the symbiotic snapping shrimp <i>Synalpheus stimpsonii</i> . <i>Chemoecology</i> , 2022, 32, 95-104.	1.1	4
3	Molecular mechanisms mediating stiffening in the mechanically adaptable connective tissues of sea cucumbers. <i>Matrix Biology</i> , 2022, 108, 39-54.	3.6	7
4	Omics-based molecular analyses of adhesion by aquatic invertebrates. <i>Biological Reviews</i> , 2021, 96, 1051-1075.	10.4	30
5	Photophore Distribution and Enzymatic Diversity Within the Photogenic Integument of the Cookie-Cutter Shark <i>Isistius brasiliensis</i> (Chondrichthyes: Dalatiidae). <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	11
6	On the Nanomechanical and Viscoelastic Properties of Coatings Made of Recombinant Sea Star Adhesive Proteins. <i>Frontiers in Mechanical Engineering</i> , 2021, 7, .	1.8	6
7	Leaving the Dark Side? Insights Into the Evolution of Luciferases. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	17
8	Disentangling the Roles of Functional Domains in the Aggregation and Adsorption of the Multimodular Sea Star Adhesive Protein Sfp1. <i>Marine Biotechnology</i> , 2021, 23, 724-735.	2.4	3
9	Glow on Sharks: State of the Art on Bioluminescence Research. <i>Oceans</i> , 2021, 2, 822-842.	1.3	10
10	Interspecific Analysis of Sea Urchin Adhesive Composition Emphasizes Variability of Glycans Conjugated With Putative Adhesive Proteins. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	5
11	Molecular insights into the powerful mucus-based adhesion of limpets (<i>Patella vulgata</i> L.). <i>Open Biology</i> , 2020, 10, 200019.	3.6	23
12	Epidemiology of a Skin Ulceration Disease (SKUD) in the sea cucumber <i>Holothuria scabra</i> with a review on the SKUDs in <i>Holothuroidea</i> (Echinodermata). <i>Scientific Reports</i> , 2020, 10, 22150.	3.3	20
13	Sea star-inspired recombinant adhesive proteins self-assemble and adsorb on surfaces in aqueous environments to form cytocompatible coatings. <i>Acta Biomaterialia</i> , 2020, 112, 62-74.	8.3	16
14	Structure and composition of the tunic in the sea pineapple <i>Halocynthia roretzi</i> : A complex cellulosic composite biomaterial. <i>Acta Biomaterialia</i> , 2020, 111, 290-301.	8.3	13
15	A sugar-lectin rich interface between soft tissue and the stiff byssus of <i>Atrina pectinata</i> . <i>Biomaterials Science</i> , 2020, 8, 3751-3759.	5.4	3
16	Enhancing the Membranolytic Activity of <i>Chenopodium quinoa</i> Saponins by Fast Microwave Hydrolysis. <i>Molecules</i> , 2020, 25, 1731.	3.8	21
17	Adhesion in echinoderms. , 2020, , 1-60.		9
18	Ion mobility mass spectrometry of saponin ions. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 22-33.	1.5	17

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19	Ocean warming and acidification alter the behavioral response to flow of the sea urchin <i>Paracentrotus lividus</i> . <i>Ecology and Evolution</i> , 2019, 9, 12128-12143.	1.9	13
20	Discrimination of Regioisomeric and Stereoisomeric Saponins from <i>Aesculus hippocastanum</i> Seeds by Ion Mobility Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2228-2237.	2.8	25
21	Interspecies comparison of sea star adhesive proteins. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190195.	4.0	23
22	Triterpenoids in Echinoderms: Fundamental Differences in Diversity and Biosynthetic Pathways. <i>Marine Drugs</i> , 2019, 17, 352.	4.6	17
23	<i>Etmopterus spinax</i> , the velvet belly lanternshark, does not use bacterial luminescence. <i>Acta Histochemica</i> , 2019, 121, 516-521.	1.8	21
24	De novo transcriptome analyses provide insights into opsin-based photoreception in the lanternshark <i>Etmopterus spinax</i> . <i>PLoS ONE</i> , 2018, 13, e0209767.	2.5	37
25	Mapping of Spinochromes in the Body of Three Tropical Shallow Water Sea Urchins. <i>Natural Product Communications</i> , 2018, 13, 1934578X1801301.	0.5	3
26	Identification and quantification of spinochromes in body compartments of <i>Echinometra mathaei</i> 's coloured types. <i>Royal Society Open Science</i> , 2018, 5, 171213.	2.4	14
27	Involvement of sulfated biopolymers in adhesive secretions produced by marine invertebrates. <i>Biology Open</i> , 2018, 7, .	1.2	8
28	The structural and chemical basis of temporary adhesion in the sea star <i>Asterina gibbosa</i> . <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2071-2086.	2.8	16
29	Biomechanics and behaviour in the sea urchin <i>Paracentrotus lividus</i> (Lamarck, 1816) when facing gradually increasing water flows. <i>Journal of Experimental Marine Biology and Ecology</i> , 2018, 506, 61-71.	1.5	15
30	Tackling saponin diversity in marine animals by mass spectrometry: data acquisition and integration. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3115-3126.	3.7	20
31	Mechanical adaptability of sea cucumber Cuvierian tubules involves a mutable collagenous tissue. <i>Journal of Experimental Biology</i> , 2017, 220, 2108-2119.	1.7	7
32	Fine structure of the luminous spines and luciferase detection in the brittle star <i>Amphiura filiformis</i> . <i>Zoologischer Anzeiger</i> , 2017, 269, 1-12.	0.9	15
33	A puzzling homology: a brittle star using a putative cnidarian-type luciferase for bioluminescence. <i>Open Biology</i> , 2017, 7, 160300.	3.6	32
34	Attachment capacity of the sea urchin <i>Paracentrotus lividus</i> in a range of seawater velocities in relation to test morphology and tube foot mechanical properties. <i>Marine Biology</i> , 2017, 164, 1.	1.5	17
35	On the Bioadhesive Properties of Silicone-Based Coatings by Incorporation of Block Copolymers. <i>Biologically-inspired Systems</i> , 2017, , 303-343.	0.2	0
36	Examples of Bioadhesives for Defence and Predation. <i>Biologically-inspired Systems</i> , 2017, , 141-191.	0.2	10

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37	The Roles of Spinochromes in Four Shallow Water Tropical Sea Urchins and Their Potential as Bioactive Pharmacological Agents. <i>Marine Drugs</i> , 2017, 15, 179.	4.6	43
38	De Novo Adult Transcriptomes of Two European Brittle Stars: Spotlight on Opsin-Based Photoreception. <i>PLoS ONE</i> , 2016, 11, e0152988.	2.5	23
39	Sugary interfaces mitigate contact damage where stiff meets soft. <i>Nature Communications</i> , 2016, 7, 11923.	12.8	27
40	Mechanisms involved in pearlfish resistance to holothuroid toxins. <i>Marine Biology</i> , 2016, 163, 1.	1.5	6
41	Nitrogen depletion in <i>Arthrospira</i> sp. PCC 8005, an ultrastructural point of view. <i>Journal of Structural Biology</i> , 2016, 196, 385-393.	2.8	17
42	Chemical characterization of saponins contained in the body wall and the Cuvierian tubules of the sea cucumber <i>Holothuria (Platyperona) sanctori</i> (Delle Chiaje, 1823). <i>Biochemical Systematics and Ecology</i> , 2016, 68, 119-127.	1.3	30
43	Adhesive Secretions in Echinoderms: A Review. , 2016, , 193-222.		12
44	Adhesive organ regeneration in <i>Macrostomum lignano</i> . <i>BMC Developmental Biology</i> , 2016, 16, 20.	2.1	24
45	The cellular basis of bioadhesion of the freshwater polyp <i>Hydra</i> . <i>BMC Zoology</i> , 2016, 1, .	1.0	20
46	Opsin evolution in the Ambulacraria. <i>Marine Genomics</i> , 2015, 24, 177-183.	1.1	50
47	From Sand Tube to Test Tube: The Adhesive Scretion From Sabellariid Tubeworms. , 2015, , 109-128.		2
48	Effects of Holothuroid Ichtyotoxic Saponins on the Gills of Free-Living Fishes and Symbiotic Pearlfishes. <i>Biological Bulletin</i> , 2015, 228, 253-265.	1.8	15
49	Cytological changes during luminescence production in lanternshark (<i>Etmopterus spinax</i> Linnaeus.) <i>TJ ETQq1 1 0.784314 rgBT / Overl</i> 0,8 22		
50	Experimental strategies for the identification and characterization of adhesive proteins in animals: a review. <i>Interface Focus</i> , 2015, 5, 20140064.	3.0	79
51	De novo transcriptome of the European brittle star <i>Amphiura filiformis</i> pluteus larvae. <i>Marine Genomics</i> , 2015, 23, 109-121.	1.1	22
52	Biological adhesives: from biology to biomimetics. <i>Interface Focus</i> , 2015, 5, 20140086.	3.0	22
53	Inter- and intra-organ spatial distributions of sea star saponins by MALDI imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8813-8824.	3.7	24
54	Sea star tenacity mediated by a protein that fragments, then aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6317-6322.	7.1	76

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55	High opsin diversity in a non-visual infaunal brittle star. <i>BMC Genomics</i> , 2014, 15, 1035.	2.8	33
56	Molecular diversity and body distribution of saponins in the sea star <i>Asterias rubens</i> by mass spectrometry. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2014, 168, 1-11.	1.6	40
57	Modification of the Adhesive Properties of Silicone-Based Coatings by Block Copolymers. <i>Langmuir</i> , 2014, 30, 358-368.	3.5	18
58	Instantaneous adhesion of Cuvierian tubules in the sea cucumber <i>Holothuria forskali</i> . <i>Biointerphases</i> , 2014, 9, 029016.	1.6	9
59	Effects of CO ₂ -induced ocean acidification on physiological and mechanical properties of the starfish <i>Asterias rubens</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2013, 446, 355-362.	1.5	25
60	When a repellent becomes an attractant: harmful saponins are kairomones attracting the symbiotic Harlequin crab. <i>Scientific Reports</i> , 2013, 3, 2639.	3.3	45
61	Characterization of the protein fraction of the temporary adhesive secreted by the tube feet of the sea star <i>Asterias rubens</i> . <i>Biofouling</i> , 2012, 28, 289-303.	2.2	38
62	Identification, Characterization, and Expression Levels of Putative Adhesive Proteins From the Tube-Dwelling Polychaete <i>Sabellaria alveolata</i> . <i>Biological Bulletin</i> , 2012, 223, 217-225.	1.8	30
63	Unusual adhesive production system in the barnacle <i>Lepas anatifera</i> : An ultrastructural and histochemical investigation. <i>Journal of Morphology</i> , 2012, 273, 1377-1391.	1.2	39
64	Is the adhesive material secreted by sea urchin tube feet species-specific?. <i>Journal of Morphology</i> , 2012, 273, 40-48.	1.2	7
65	Echinoderms don't suck: evidence against the involvement of suction in tube foot attachment. <i>Zoosymposia</i> , 2012, 7, 25-32.	0.3	17
66	The triterpene glycosides of <i>Holothuria forskali</i> : usefulness and efficiency as a chemical defense mechanism against predatory fish. <i>Journal of Experimental Biology</i> , 2011, 214, 1347-1356.	1.7	70
67	Characterisation of the Carbohydrate Fraction of the Temporary Adhesive Secreted by the Tube Feet of the Sea Star <i>Asterias rubens</i> . <i>Marine Biotechnology</i> , 2011, 13, 484-495.	2.4	48
68	Evaluation of the different forces brought into play during tube foot activities in sea stars. <i>Journal of Experimental Biology</i> , 2010, 213, 1162-1174.	1.7	26
69	Localization of Secondary Metabolites in Marine Invertebrates: Contribution of MALDI MSI for the Study of Saponins in Cuvierian Tubules of <i>H. forskali</i> . <i>PLoS ONE</i> , 2010, 5, e13923.	2.5	46
70	Qualitative and Quantitative Saponin Contents in Five Sea Cucumbers from the Indian Ocean. <i>Marine Drugs</i> , 2010, 8, 173-189.	4.6	109
71	Bonding Tactics in Ctenophores – Morphology and Function of the Colloblast System. , 2010, , 29-40.		9
72	Unravelling the Sticky Threads of Sea Cucumbers – A Comparative Study on Cuvierian Tubule Morphology and Histochemistry. , 2010, , 87-98.		12

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73	Measurement of the attachment strength of brachiolaria larvae and metamorphic individuals of the sea star <i>Asterina gibbosa</i> by a centrifugation method. <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 372, 82-90.	1.5	2
74	First Insights into the Biochemistry of Tube Foot Adhesive from the Sea Urchin <i>Paracentrotus lividus</i> (Echinoidea, Echinodermata). <i>Marine Biotechnology</i> , 2009, 11, 686-698.	2.4	64
75	Elucidation of molecular diversity and body distribution of saponins in the sea cucumber <i>Holothuria forskali</i> (Echinodermata) by mass spectrometry. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2009, 152, 124-134.	1.6	59
76	Polyphosphoprotein-Containing Marine Adhesives. <i>Journal of Adhesion</i> , 2009, 85, 447-464.	3.0	62
77	The Echinoderm Tube Foot and its Role in Temporary Underwater Adhesion. , 2009, , 9-41.		26
78	Estimation of the attachment strength of the shingle sea urchin, <i>Colobocentrotus atratus</i> , and comparison with three sympatric echinoids. <i>Marine Biology</i> , 2008, 154, 37-49.	1.5	28
79	Micro- and nanostructure of the adhesive material secreted by the tube feet of the sea star <i>Asterias rubens</i> . <i>Journal of Structural Biology</i> , 2008, 164, 108-118.	2.8	52
80	Intra- and interspecific variation of attachment strength in sea urchins. <i>Marine Ecology - Progress Series</i> , 2007, 332, 129-142.	1.9	44
81	Antifouling diketopiperazines produced by a deep-sea bacterium, <i>Streptomyces fungicidicus</i> . <i>Biofouling</i> , 2006, 22, 187-194.	2.2	109
82	Morphology and tenacity of the tube foot disc of three common European sea urchin species: a comparative study. <i>Biofouling</i> , 2006, 22, 173-186.	2.2	45
83	Adaptations to Benthic Development: Functional Morphology of the Attachment Complex of the Brachiolaria Larva in the Sea Star <i>Asterina gibbosa</i> . <i>Biological Bulletin</i> , 2006, 211, 172-182.	1.8	19
84	Adhesive Secretions in Echinoderms: An Overview. , 2006, , 183-206.		31
85	Morphometry and mechanical design of tube foot stems in sea urchins: a comparative study. <i>Journal of Experimental Marine Biology and Ecology</i> , 2005, 315, 211-223.	1.5	27
86	Comparative histological and immunohistochemical study of sea star tube feet (Echinodermata,) Tj ETQq0 0 0 rgBT, /Overlock, 10 Tf 50 2	1.2	34
87	The attachment complex of brachiolaria larvae of the sea star <i>Asterias rubens</i> (Echinodermata): an ultrastructural and immunocytochemical study. <i>Zoomorphology</i> , 2005, 124, 67-78.	0.8	22
88	Adhesion of echinoderm tube feet to rough surfaces. <i>Journal of Experimental Biology</i> , 2005, 208, 2555-2567.	1.7	109
89	Evaluation of the attachment strength of individuals of <i>Asterina gibbosa</i> (Asteroidea, Echinodermata) during the perimetamorphic period. <i>Biofouling</i> , 2005, 21, 229-235.	2.2	12
90	The tube feet of sea urchins and sea stars contain functionally different mutable collagenous tissues. <i>Journal of Experimental Biology</i> , 2005, 208, 2277-2288.	1.7	24

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91	Characterization of the Adhesive from Cuvierian Tubules of the Sea Cucumber <i>Holothuria forskali</i> (Echinodermata, Holothuroidea). <i>Marine Biotechnology</i> , 2003, 5, 45-57.	2.4	41
92	Biomechanics of Adhesion in Sea Cucumber Cuvierian Tubules (Echinodermata, Holothuroidea). <i>Integrative and Comparative Biology</i> , 2002, 42, 1107-1115.	2.0	47
93	Ultrastructure of the echinoderm cuticle after fast-freezing / freeze substitution and conventional chemical fixations. , 2000, 48, 385-393.		24
94	Maintaining the line of defense: regeneration of Cuvierian tubules in the sea cucumber <i>Holothuria forskali</i> (Echinodermata, Holothuroidea). <i>Biological Bulletin</i> , 2000, 198, 34-49.	1.8	48
95	The podia, organs of adhesion and sensory perception in larvae and postâ€metamorphic stages of the echinoid <i>Paracentrotus lividus</i> (Echinodermata). <i>Biofouling</i> , 1998, 12, 161-171.	2.2	9
96	Measurement of the Adhesion of the Podia in the Asteroid <i>Asterias Rubens</i> (Echinodermata). <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1997, 77, 1251-1254.	0.8	21
97	Heavy metals in <i>Diadema setosum</i> (Echinodermata, Echinoidea) from Singapore coral reefs. <i>Journal of Sea Research</i> , 1997, 38, 35-45.	1.6	21
98	Functional morphology of the tentacles and tentilla of <i>Coeloplana bannworthi</i> (Ctenophora). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467</i> 117, 165-174.	0.8	10
99	Fine structure of the dorsal papillae in the holothurioid <i>Holothuria forskali</i> (Echinodermata). <i>Tissue and Cell</i> , 1995, 27, 457-465.	2.2	19
100	The Role of Podial Secretions in Adhesion in Two Species of Sea Stars (Echinodermata). <i>Biological Bulletin</i> , 1994, 187, 35-47.	1.8	44
101	Functional morphology of coronal and peristomeal podia in <i>Sphaerechinus granularis</i> (Echinodermata, Echinoidea). <i>Zoomorphology</i> , 1993, 113, 47-60.	0.8	36
102	Functional morphology of the locomotory podia of <i>Holothuria forskali</i> (Echinodermata). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (H</i> 0.8 25	0.8	25
103	Ultrastructure of the Penicillate Podia of the Spatangoid Echinoid <i>Echinocardium cordatum</i> (Echinodermata) with Special Emphasis on the Epidermal Sensoryâ€Secretory Complexes. <i>Acta Zoologica</i> , 1991, 72, 151-158.	0.8	14