Sally Leys

List of Publications by Year
in descending order

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94 papers	6,312 citations	71061 41 h-index	74108 75 g-index
99 all docs	99 docs citations	99 times ranked	4131 citing authors

#	Article	IF	Citations
1	The Amphimedon queenslandica genome and the evolution of animal complexity. Nature, 2010, 466, 720-726.	13.7	917
2	Phylogenomics Revives Traditional Views on Deep Animal Relationships. Current Biology, 2009, 19, 706-712.	1.8	611
3	The Analysis of Eight Transcriptomes from All Poriferan Classes Reveals Surprising Genetic Complexity in Sponges. Molecular Biology and Evolution, 2014, 31, 1102-1120.	3.5	211
4	Cytological Basis of Photoresponsive Behavior in a Sponge Larva. Biological Bulletin, 2001, 201, 323-338.	0.7	187
5	The hidden biology of sponges and ctenophores. Trends in Ecology and Evolution, 2015, 30, 282-291.	4.2	173
6	Developmental expression of transcription factor genes in a demosponge: insights into the origin of metazoan multicellularity. Evolution & Development, 2006, 8, 150-173.	1.1	165
7	The Biology of Glass Sponges. Advances in Marine Biology, 2007, 52, 1-145.	0.7	149
8	Coordinated contractions effectively expel water from the aquiferous system of a freshwater sponge. Journal of Experimental Biology, 2007, 210, 3736-3748.	0.8	143
9	The Sponge Pump: The Role of Current Induced Flow in the Design of the Sponge Body Plan. PLoS ONE, 2011, 6, e27787.	1.1	130
10	In situ feeding and metabolism of glass sponges (Hexactinellida, Porifera) studied in a deep temperate fjord with a remotely operated submersible. Limnology and Oceanography, 2007, 52, 428-440.	1.6	122
11	Electrical recording from a glass sponge. Nature, 1997, 387, 29-30.	13.7	115
12	Embryogenesis and metamorphosis in a haplosclerid demosponge: gastrulation and transdifferentiation of larval ciliated cells to choanocytes. Invertebrate Biology, 2002, 121, 171-189.	0.3	112
13	Benthic grazing and carbon sequestration by deep-water glass sponge reefs. Limnology and Oceanography, 2015, 60, 78-88.	1.6	111
14	Hexactinellid sponge ecology: growth rates and seasonality in deep water sponges. Journal of Experimental Marine Biology and Ecology, 1998, 230, 111-129.	0.7	108
15	Phylogenetic Position of the Hexactinellida Within the Phylum Porifera Based on the Amino Acid Sequence of the Protein Kinase C from Rhabdocalyptus dawsoni. Journal of Molecular Evolution, 1998, 46, 721-728.	0.8	108
16	Elements of a â€˜nervous systemâ€™ in sponges. Journal of Experimental Biology, 2015, 218, 581-591.	0.8	104
17	Evolutionary origins of sensation in metazoans: functional evidence for a new sensory organ in sponges. BMC Evolutionary Biology, 2014, 14, 3.	3.2	92
18	Feeding in a Calcareous Sponge: Particle Uptake by Pseudopodia. Biological Bulletin, 2006, 211, 157-171.	0.7	91

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19	Spectral sensitivity in a sponge larva. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2002, 188, 199-202.	0.7	90
20	The Physiology and Molecular Biology of Sponge Tissues. Advances in Marine Biology, 2012, 62, 1-56.	0.7	90
21	Epithelia and integration in sponges. Integrative and Comparative Biology, 2009, 49, 167-177.	0.9	88
22	Choanoflagellate and choanocyte collarâ€flagellar systems and the assumption of homology. Evolution & Development, 2014, 16, 25-37.	1.1	87
23	The Pacific Ocean Neutrino Experiment. Nature Astronomy, 2020, 4, 913-915.	4.2	85
24	Embryogenesis and larval differentiation in sponges. Canadian Journal of Zoology, 2006, 84, 262-287.	0.4	84
25	Evidence for glutamate, GABA and NO in coordinating behaviour in the sponge, Ephydatia muelleri (Demospongiae, Spongillidae). Journal of Experimental Biology, 2010, 213, 2310-2321.	0.8	84
26	Physiology of coordination in sponges. Canadian Journal of Zoology, 2006, 84, 288-306.	0.4	80
27	Glass sponges arrest pumping in response to sediment: implications for the physiology of the hexactinellid conduction system. Marine Biology, 2008, 154, 973-984.	0.7	79
28	Patterns of glass sponge (Porifera, Hexactinellida) distribution in coastal waters of British Columbia, Canada. Marine Ecology - Progress Series, 2004, 283, 133-149.	0.9	77
29	Epithelia, an Evolutionary Novelty of Metazoans. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2012, 318, 438-447.	0.6	75
30	Sponge Grounds as Key Marine Habitats: A Synthetic Review of Types, Structure, Functional Roles, and Conservation Concerns. , 2017, , 145-183.		72
31	Tracing animal genomic evolution with the chromosomal-level assembly of the freshwater sponge Ephydatia muelleri. Nature Communications, 2020, 11, 3676.	5.8	72
32	The Significance of Syncytial Tissues for the Position of the Hexactinellida in the Metazoa. Integrative and Comparative Biology, 2003, 43, 19-27.	0.9	69
33	Ecological regulation of development: induction of marine invertebrate metamorphosis. International Journal of Developmental Biology, 2002, 46, 679-86.	0.3	65
34	Wnt signaling and induction in the sponge aquiferous system: evidence for an ancient origin of the organizer. Evolution & Development, 2010, 12, 484-493.	1.1	60
35	Freshwater Sponges Have Functional, Sealing Epithelia with High Transepithelial Resistance and Negative Transepithelial Potential. PLoS ONE, 2010, 5, e15040.	1.1	58
36	Phagocytosis of microbial symbionts balances the carbon and nitrogen budget for the deepâ€water boreal sponge Geodia barretti. Limnology and Oceanography, 2018, 63, 187-202.	1.6	55

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37	Sponge Grounds as Key Marine Habitats: A Synthetic Review of Types, Structure, Functional Roles, and Conservation Concerns. , 2015, , 1-39.		52
38	Gastrulation in Calcareous Sponges: In Search of Haeckel's Gastraea. Integrative and Comparative Biology, 2005, 45, 342-351.	0.9	49
39	The mitochondrial genome of the hexactinellid sponge Aphrocallistes vastus: Evidence for programmed translational frameshifting. BMC Genomics, 2008, 9, 33.	1.2	49
40	Reproduction in a carnivorous sponge: the significance of the absence of an aquiferous system to the sponge body plan. Evolution & Development, 2007, 9, 618-631.	1.1	48
41	Optimization of preservation and storage time of sponge tissues to obtain quality mRNA for nextâ€generation sequencing. Molecular Ecology Resources, 2012, 12, 312-322.	2.2	48
42	Sponge Development and Antiquity of Animal Pattern Formation. Integrative and Comparative Biology, 2005, 45, 335-341.	0.9	46
43	Isolation and cloning of a C-type lectin from the hexactinellid sponge Aphrocallistes vastus: a putative aggregation factor. Glycobiology, 2001, 11, 21-29.	1.3	45
44	Ultrastructure and embryonic development of a syconoid calcareous sponge. Invertebrate Biology, 2006, 125, 177-194.	0.3	42
45	Comparative study of spiculogenesis in demosponge and hexactinellid larvae. Microscopy Research and Technique, 2003, 62, 300-311.	1.2	40
46	Transport Pathways in the Neotropical Sponge Aplysina. Biological Bulletin, 1998, 195, 30-42.	0.7	38
47	Embryogenesis in the glass sponge Oopsacas minuta: Formation of syncytia by fusion of blastomeres. Integrative and Comparative Biology, 2006, 46, 104-117.	0.9	38
48	The energetic cost of filtration by demosponges and their behavioural response to ambient currents. Journal of Experimental Biology, 2017, 220, 995-1007.	0.8	36
49	Cytoskeletal Architecture and Organelle Transport in Giant Syncytia Formed by Fusion of Hexactinellid Sponge Tissues. Biological Bulletin, 1995, 188, 241-254.	0.7	35
50	Wnt signaling and polarity in freshwater sponges. BMC Evolutionary Biology, 2018, 18, 12.	3.2	35
51	The Choanosome of Hexactinellid Sponges. Invertebrate Biology, 1999, 118, 221.	0.3	32
52	Think like a sponge: The genetic signal of sensory cells in sponges. Developmental Biology, 2017, 431, 93-100.	0.9	32
53	Oxygen and the Energetic Requirements of the First Multicellular Animals. Integrative and Comparative Biology, 2018, 58, 666-676.	0.9	31
54	Isolation of Amphimedon Developmental Material. Cold Spring Harbor Protocols, 2008, 2008, pdb.prot5095-pdb.prot5095.	0.2	29

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55	Dynamic change, recruitment and resilience in reef-forming glass sponges. Journal of the Marine Biological Association of the United Kingdom, 2016, 96, 429-436.	0.4	28
56	Understanding Animal Evolution: The Added Value of Sponge Transcriptomics and Genomics. BioEssays, 2018, 40, e1700237.	1.2	27
57	Impulse conduction in a sponge. Journal of Experimental Biology, 1999, 202 (Pt 9), 1139-50.	0.8	26
58	Expression of a poriferan potassium channel: insights into the evolution of ion channels in metazoans. Journal of Experimental Biology, 2009, 212, 761-767.	0.8	25
59	Molecular and functional analysis of the (6-4) photolyase from the hexactinellid Aphrocallistes vastus. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1651, 41-49.	1.1	24
60	The Demosponge Amphimedon queenslandica: Reconstructing the Ancestral Metazoan Genome and Deciphering the Origin of Animal Multicellularity. Cold Spring Harbor Protocols, 2008, 2008, pdb.emo108.	0.2	24
61	Phototactic responses of larvae from the marine sponges Neopetrosia proxima and Xestospongia bocatorensis (Haplosclerida: Petrosiidae). Invertebrate Biology, 2010, 129, 121-128.	0.3	24
62	Use of Sandwich Cultures for the Study of Feeding in the Hexactinellid Sponge Rhabdocalyptus dawsoni (Lambe, 1892). Acta Zoologica, 1996, 77, 227-232.	0.6	22
63	Sponge cell culture: a comparative evaluation of adhesion to a native tissue extract and other culture substrates. Tissue and Cell, 1997, 29, 77-87.	1.0	22
64	Sponge cell aggregation: checkpoints in development indicate a high level of organismal complexity. Invertebrate Biology, 2015, 134, 1-18.	0.3	22
65	The role of cell replacement in benthicâ€“pelagic coupling by suspension feeders. Royal Society Open Science, 2016, 3, 160484.	1.1	22
66	Suspended sediment causes feeding current arrests in situ in the glass sponge Aphrocallistes vastus. Marine Environmental Research, 2018, 137, 111-120.	1.1	22
67	Trophic ecology of glass sponge reefs in the Strait of Georgia, British Columbia. Scientific Reports, 2018, 8, 756.	1.6	20
68	Evolution of Early Metazoa: Phylogenetic Status of the Hexactinellida Within the Phylum of Porifera (Sponges). Progress in Molecular and Subcellular Biology, 1998, 21, 141-156.	0.9	20
69	Sponge Behavior and the Chemical Basis of Responses: A Post-Genomic View. Integrative and Comparative Biology, 2019, 59, 751-764.	0.9	19
70	Expansion, diversification, and expression of T-box family genes in Porifera. Development Genes and Evolution, 2010, 220, 251-262.	0.4	18
71	The dorid nudibranchs <scp>P</scp>eltodoris lentiginosa and <scp>A</scp>rchidoris odhneri as predators of glass sponges. Invertebrate Biology, 2012, 131, 75-81.	0.3	18
72	Sponges. Current Biology, 2005, 15, R114-R115.	1.8	16

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73	An Integrative Model of Carbon and Nitrogen Metabolism in a Common Deep-Sea Sponge (Geodia) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	15
74	Clones or clans: the genetic structure of a deepâ€sea sponge, Aphrocallistes vastus, in unique sponge reefs of British Columbia, Canada. Molecular Ecology, 2017, 26, 1045-1059.	2.0	14
75	Hydrodynamics of sponge pumps and evolution of the sponge body plan. ELife, 2020, 9, .	2.8	13
76	Machine Learning Applications of Convolutional Neural Networks and Unet Architecture to Predict and Classify Demosponge Behavior. Water (Switzerland), 2021, 13, 2512.	1.2	12
77	A unique alkaline pH-regulated and fatty acid-activated tandem pore domain potassium channel (K2P) from a marine sponge. Journal of Experimental Biology, 2012, 215, 2435-2444.	0.8	10
78	Foundation Species Abundance Influences Food Web Topology on Glass Sponge Reefs. Frontiers in Marine Science, 2020, 7, .	1.2	10
79	Two-year optical site characterization for the Pacific Ocean Neutrino Experiment (P-ONE) in the Cascadia Basin. European Physical Journal C, 2021, 81, 1.	1.4	10
80	Threeâ€dimensional fate mapping of larval tissues through metamorphosis in the glass sponge Oopsacas minuta. Invertebrate Biology, 2016, 135, 259-272.	0.3	9
81	Behaviors of sessile benthic animals in the abyssal northeast Pacific Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2020, 173, 104729.	0.6	8
82	Sponge Reefs of the British Columbia, Canada Coast: Impacts of Climate Change and Ocean Acidification. , 2017, , 429-445.		7
83	Cloning of Hsp70 genes from the marine sponges Sycon raphanus (Calcarea) and Rhabdocalyptus dawsoni (Hexactinellida). An approach to solve the phylogeny of sponges. Biological Journal of the Linnean Society, 1997, 62, 581-592.	0.7	6
84	The sponge pump as a morphological character in the fossil record. Paleobiology, 2022, 48, 446-461.	1.3	5
85	SNP discovery in a reef-forming glass sponge, Aphrocallistes vastus, using the Ion Torrent next generation sequencing platform. Conservation Genetics Resources, 2014, 6, 49-51.	0.4	4
86	Spicule and flagellated chamber formation in a growth zone of Aphrocallistes vastus (Porifera, Hexactinellida). Invertebrate Biology, 2017, 136, 22-30.	0.3	4
87	Settlement of juvenile glass sponges and other invertebrate cryptofauna on the Hecate Strait glass sponge reefs. Invertebrate Biology, 2019, 138, e12266.	0.3	4
88	A problematic animal fossil from the early Cambrian Hetang Formation, South China. Journal of Paleontology, 2019, 93, 1047-1057.	0.5	4
89	A problematic animal fossil from the early Cambrian Hetang Formation, South Chinaâ€”A reply. Journal of Paleontology, 2019, 93, 1279-1282.	0.5	3
90	Models of flow through sponges must consider the sponge tissue. Nature, 2022, 603, E23-E25.	13.7	3

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91	Sponge communities in the eastern Canadian Arctic: species richness, diversity and density determined using targeted benthic sampling and underwater video analysis. Polar Biology, 2020, 43, 1287-1305.	0.5	2
92	Introduction to studies on cell adhesion using invertebrate models. , 1999, 44, 201-203.		0
93	Animal Evolution: The Hidden Biology of the Ctenophore Cilium. Current Biology, 2019, 29, R1079-R1081.	1.8	0
94	Description and distribution of Desmacella hyalina sp. nov. (Porifera, Desmacellidae), a new cryptic demosponge in glass sponge reefs from the western coast of Canada. Marine Biodiversity, 2020, 50, 1.	0.3	0