Nicole Dubilier

List of Publications by Year
in descending order

83 papers	8,495 citations	66343 42 h-index	64796 79 g-index
103 all docs	103 docs citations	103 times ranked	8140 citing authors

#	Article	IF	Citations
1	Animals in a bacterial world, a new imperative for the life sciences. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3229-3236.	7.1	2,181
2	Symbiotic diversity in marine animals: the art of harnessing chemosynthesis. Nature Reviews Microbiology, 2008, 6, 725-740.	28.6	875
3	Symbiosis insights through metagenomic analysis of a microbial consortium. Nature, 2006, 443, 950-955.	27.8	396
4	Hydrogen is an energy source for hydrothermal vent symbioses. Nature, 2011, 476, 176-180.	27.8	251
5	Endosymbiotic sulphate-reducing and sulphide-oxidizing bacteria in an oligochaete worm. Nature, 2001, 411, 298-302.	27.8	196
6	Metaorganisms in extreme environments: do microbes play a role in organismal adaptation?. Zoology, 2018, 127, 1-19.	1.2	194
7	Metaproteomics of a gutless marine worm and its symbiotic microbial community reveal unusual pathways for carbon and energy use. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1173-82.	7.1	191
8	Transport and mineralization rates in North Sea sandy intertidal sediments, Sylt-RÃ¸mÃ¸ Basin, Wadden Sea. Limnology and Oceanography, 2005, 50, 113-127.	3.1	188
9	A dual symbiosis shared by two mussel species, Bathymodiolus azoricus and Bathymodiolus puteoserpentis (Bivalvia: Mytilidae), from hydrothermal vents along the northern Mid-Atlantic Ridge. Environmental Microbiology, 2006, 8, 1441-1447.	3.8	179
10	Dual Symbiosis in a Bathymodiolus sp. Mussel from a Methane Seep on the Gabon Continental Margin (Southeast Atlantic): 16S rRNA Phylogeny and Distribution of the Symbionts in Gills. Applied and Environmental Microbiology, 2005, 71, 1694-1700.	3.1	155
11	Microbial community structure of sandy intertidal sediments in the North Sea, Sylt-RÃ¸mÃ¸ Basin, Wadden Sea. Systematic and Applied Microbiology, 2006, 29, 333-348.	2.8	148
12	Spatial metabolomics of in situ hostâ€“microbe interactions at the micrometre scale. Nature Microbiology, 2020, 5, 498-510.	13.3	144
13	Diversity, relative abundance and metabolic potential of bacterial endosymbionts in three Bathymodiolus mussel species from cold seeps in the Gulf of Mexico. Environmental Microbiology, 2007, 9, 1423-1438.	3.8	133
14	Methanotrophic symbioses in marine invertebrates. Environmental Microbiology Reports, 2009, 1, 319-335.	2.4	121
15	Metabolic and physiological interdependencies in the Bathymodiolus azoricus symbiosis. ISME Journal, 2017, 11, 463-477.	9.8	116
16	Endosymbioses between bacteria and deepâ€sea siboglinid tubeworms from an Arctic Cold Seep (Haakon) Tj ETQq0 0 0 rgBT /Overlock	3.8	107
17	Microbiology: Create a global microbiome effort. Nature, 2015, 526, 631-634.	27.8	107
18	Coexistence of Bacterial Sulfide Oxidizers, Sulfate Reducers, and Spirochetes in a Gutless Worm (Oligochaeta) from the Peru Margin. Applied and Environmental Microbiology, 2005, 71, 1553-1561.	3.1	106

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19	Dual symbiosis of the vent shrimp Rimicaris exoculata with filamentous gammaâ€•and epsilonproteobacteria at four Midâ€Atlantic Ridge hydrothermal vent fields. Environmental Microbiology, 2010, 12, 2204-2218.	3.8	102
20	The gill chamber epibiosis of deepâ€sea shrimp <scp>R</scp>imicaris exoculata: an inâ€depth metagenomic investigation and discovery of <scp>Z</scp>etaproteobacteria. Environmental Microbiology, 2014, 16, 2723-2738.	3.8	93
21	Widespread occurrence of an intranuclear bacterial parasite in vent and seep bathymodiolin mussels. Environmental Microbiology, 2009, 11, 1150-1167.	3.8	81
22	Pathways of Carbon and Energy Metabolism of the Epibiotic Community Associated with the Deep-Sea Hydrothermal Vent Shrimp Rimicaris exoculata. PLoS ONE, 2011, 6, e16018.	2.5	80
23	Short-chain alkanes fuel mussel and sponge Cycloclasticus symbionts from deep-sea gas and oil seeps. Nature Microbiology, 2017, 2, 17093.	13.3	80
24	Functional diversity enables multiple symbiont strains to coexist in deep-sea mussels. Nature Microbiology, 2019, 4, 2487-2497.	13.3	76
25	Hydrothermal vent gastropods from the same family (Provannidae) harbour e- and gamma-proteobacterial endosymbionts. Environmental Microbiology, 2005, 7, 750-754.	3.8	70
26	Biophysical and Population Genetic Models Predict the Presence of â€œPhantomâ€•Stepping Stones Connecting Mid-Atlantic Ridge Vent Ecosystems. Current Biology, 2016, 26, 2257-2267.	3.9	69
27	Fueled by methane: deep-sea sponges from asphalt seeps gain their nutrition from methane-oxidizing symbionts. ISME Journal, 2019, 13, 1209-1225.	9.8	68
28	Symbioses between Bacteria and Gutless Marine Oligochaetes. , 2006, 41, 251-275.		64
29	MiL-FISH: Multilabeled Oligonucleotides for Fluorescence In Situ Hybridization Improve Visualization of Bacterial Cells. Applied and Environmental Microbiology, 2016, 82, 62-70.	3.1	64
30	Acidovorax-like symbionts in the nephridia of earthworms. Environmental Microbiology, 2003, 5, 804-809.	3.8	63
31	H2Sâ€”A Settlement Cue or a Toxic Substance For Capitella sp. I Larvae?. Biological Bulletin, 1988, 174, 30-38.	1.8	62
32	Forever competent: deepâ€sea bivalves are colonized by their chemosynthetic symbionts throughout their lifetime. Environmental Microbiology, 2014, 16, 3699-3713.	3.8	60
33	Phylogeny of 16S rRNA, Ribulose 1,5-Bisphosphate Carboxylase/Oxygenase, and Adenosine 5â€²-Phosphosulfate Reductase Genes from Gamma- and Alphaproteobacterial Symbionts in Gutless Marine Worms (Oligochaeta) from Bermuda and the Bahamas. Applied and Environmental Microbiology, 2006, 72, 5527-5536.	3.1	57
34	Convergent and divergent evolution of metabolism in sulfur-oxidizing symbionts and the role of horizontal gene transfer. Current Opinion in Microbiology, 2012, 15, 621-631.	5.1	57
35	Two intracellular and cell type-specific bacterial symbionts in the placozoan Trichoplax H2. Nature Microbiology, 2019, 4, 1465-1474.	13.3	57
36	Multiple bacterial symbionts in two species of coâ€occurring gutless oligochaete worms from Mediterranean sea grass sediments. Environmental Microbiology, 2008, 10, 3404-3416.	3.8	55

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37	Horizontal acquisition of a patchwork Calvin cycle by symbiotic and free-living Campylobacterota (formerly Epsilonproteobacteria). ISME Journal, 2020, 14, 104-122.	9.8	55
38	Origins and Evolutionary Flexibility of Chemosynthetic Symbionts From Deep-Sea Animals. Biological Bulletin, 2012, 223, 123-137.	1.8	53
39	Abundant toxin-related genes in the genomes of beneficial symbionts from deep-sea hydrothermal vent mussels. ELife, 2015, 4, e07966.	6.0	50
40	Structural peculiarities of the body wall of Tubificoides benedii (Oligochaeta) and possible relations to its life in sulphidic sediments. Zoomorphology, 1988, 108, 29-39.	0.8	48
41	Ammoniaâ€oxidizing Crenarchaeota and nitrification inside the tissue of a colonial ascidian. Environmental Microbiology, 2008, 10, 2991-3001.	3.8	48
42	Molecular and morphological characterization of the association between bacterial endosymbionts and the marine nematode Astomonema sp. from the Bahamas. Environmental Microbiology, 2007, 9, 1345-1353.	3.8	47
43	High symbiont diversity in the boneâ€eating worm Osedax mucofloris from shallow whaleâ€falls in the North Atlantic. Environmental Microbiology, 2010, 12, 2355-2370.	3.8	47
44	Marine Metabolomics: a Method for Nontargeted Measurement of Metabolites in Seawater by Gas Chromatographyâ€“Mass Spectrometry. MSystems, 2019, 4, .	3.8	45
45	Chemosynthetic symbioses. Current Biology, 2020, 30, R1137-R1142.	3.9	44
46	A specific and widespread association between deepâ€sea Bathymodiolus mussels and a novel family of Epsilonproteobacteria. Environmental Microbiology Reports, 2016, 8, 805-813.	2.4	43
47	Horizontally transmitted symbiont populations in deep-sea mussels are genetically isolated. ISME Journal, 2019, 13, 2954-2968.	9.8	42
48	Metaproteomics Reveals Abundant Transposase Expression in Mutualistic Endosymbionts. MBio, 2013, 4, e00223-13.	4.1	41
49	Transcriptomic and proteomic insights into innate immunity and adaptations to a symbiotic lifestyle in the gutless marine worm Olavius algarvensis. BMC Genomics, 2016, 17, 942.	2.8	41
50	Starvation and recovery in the deepâ€sea methanotroph <scp>M</scp>ethyloprofundus sedimenti. Molecular Microbiology, 2017, 103, 242-252.	2.5	40
51	Dual symbiosis with coâ€occurring sulfurâ€oxidizing symbionts in vestimentiferan tubeworms from a <scp>M</scp>editerranean hydrothermal vent. Environmental Microbiology, 2014, 16, 3638-3656.	3.8	38
52	Use of carbon monoxide and hydrogen by a bacteriaâ€“animal symbiosis from seagrass sediments. Environmental Microbiology, 2015, 17, 5023-5035.	3.8	37
53	Nature's microbiome: introduction. Molecular Ecology, 2014, 23, 1225-1237.	3.9	36
54	Plasticity of symbiont acquisition throughout the life cycle of the shallowâ€water tropical lucinid Codakia orbiculata (Mollusca: Bivalvia). Environmental Microbiology, 2012, 14, 1584-1595.	3.8	35

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55	Closely coupled evolutionary history of ectoâ€•and endosymbionts from two distantly related animal phyla. Molecular Ecology, 2016, 25, 3203-3223.	3.9	35
56	Specificity in diversity: single origin of a widespread ciliate-bacteria symbiosis. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170764.	2.6	34
57	Novel Epibiotic Thiothrix Bacterium on a Marine Amphipod. Applied and Environmental Microbiology, 2004, 70, 3772-3775.	3.1	33
58	Shift from widespread symbiont infection of host tissues to specific colonization of gills in juvenile deep-sea mussels. ISME Journal, 2013, 7, 1244-1247.	9.8	33
59	Genetic Evidence for Two Carbon Fixation Pathways (the Calvin-Benson-Bassham Cycle and the Reverse) Tj ETQq1 1 0.784314 rgBT /Ov	2.9	33
60	Symbiontâ€“host relationships in chemosynthetic mussels: A comprehensive lipid biomarker study. Organic Geochemistry, 2012, 43, 112-124.	1.8	32
61	Genetic Connectivity between North and South Mid-Atlantic Ridge Chemosynthetic Bivalves and Their Symbionts. PLoS ONE, 2012, 7, e39994.	2.5	31
62	Morphological and Ecophysiological Adaptations of the Marine OligochaeteTubificoides benediito Sulfidic Sediments. American Zoologist, 1995, 35, 163-173.	0.7	30
63	Sulfur-Oxidizing Symbionts without Canonical Genes for Autotrophic CO ₂ Fixation. MBio, 2019, 10, .	4.1	29
64	Concomitant effects of sulfide and hypoxia on the aerobic metabolism of the marine oligochaeteTubificoides benedii. The Journal of Experimental Zoology, 1994, 269, 287-297.	1.4	28
65	Life in the Dark: Phylogenetic and Physiological Diversity of Chemosynthetic Symbioses. Annual Review of Microbiology, 2021, 75, 695-718.	7.3	27
66	Sugars dominate the seagrass rhizosphere. Nature Ecology and Evolution, 2022, 6, 866-877.	7.8	27
67	Expression patterns of mRNAs for methanotrophy and thiotrophy in symbionts of the hydrothermal vent mussel Bathymodiolus puteoserpentis. ISME Journal, 2012, 6, 104-112.	9.8	26
68	Gammaâ€•and epsilonproteobacterial ectosymbionts of a shallowâ€water marine worm are related to deepâ€sea hydrothermal vent ectosymbionts. Environmental Microbiology, 2010, 12, 2312-2326.	3.8	24
69	Deep-sea corals provide new insight into the ecology, evolution, and the role of plastids in widespread apicomplexan symbionts of anthozoans. Microbiome, 2020, 8, 34.	11.1	23
70	Acquisition of a Novel Sulfur-Oxidizing Symbiont in the Gutless Marine Worm Inanidrilus exumae. Applied and Environmental Microbiology, 2018, 84, .	3.1	22
71	Coming togetherâ€”symbiont acquisition and early development in deep-sea bathymodioline mussels. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211044.	2.6	20
72	In situ measurements of hydrogen sulfide, oxygen, and temperature in diffuse fluids of an ultramafic-hosted hydrothermal vent field (Logatchev, 14Â°45â€²N, Mid-Atlantic Ridge): Implications for chemosymbiotic bathymodiolin mussels. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	18

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73	Characterization by 16S rRNA gene analysis and in situ hybridization of bacteria living in the hindgut of a deposit-feeding echinoid (Echinodermata). Journal of the Marine Biological Association of the United Kingdom, 2006, 86, 1209-1213.	0.8	17
74	Deep-sea mussels from a hybrid zone on the Mid-Atlantic Ridge host genetically indistinguishable symbionts. ISME Journal, 2021, 15, 3076-3083.	9.8	15
75	Enigmatic dual symbiosis in the excretory organ of Nautilus macromphalus (Cephalopoda:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	2.6	13
76	The searchlight and the bucket of microbial ecology. Environmental Microbiology, 2007, 9, 2-3.	3.8	5
77	High-Quality Draft Genome Sequences of the Uncultured Delta3 Endosymbiont (Deltaproteobacteria) Assembled from Metagenomes of the Gutless Marine Worm Olavius algarvensis. Microbiology Resource Announcements, 2020, 9, .	0.6	3
78	Correlative 3D anatomy and spatial chemistry in animal-microbe symbioses: developing sample preparation for phase-contrast synchrotron radiation based micro-computed tomography and mass spectrometry imaging. , 2019, , .		3
79	High-Quality Draft Genome Sequences of Two Deltaproteobacterial Endosymbionts, Delta1a and Delta1b, from the Uncultured Sva0081 Clade, Assembled from Metagenomes of the Gutless Marine Worm Olavius algarvensis. Microbiology Resource Announcements, 2020, 9, .	0.6	2
80	Gene swapping in the dead zone. ELife, 2014, 3, e04600.	6.0	2
81	Some aspects of the ecophysiology of Tubificoides benedii and ultrastructural observations on endocuticular bacteria. Hydrobiologia, 1987, 155, 161-161.	2.0	1
82	RAYMOND L. LINDEMAN AWARD: JILLIAN M. PETERSEN. Limnology and Oceanography Bulletin, 2013, 22, 20-20.	0.4	0
83	Dunkle Energie: Symbiosen zwischen Tieren und chemosynthetischen Bakterien. , 2017, , 231-244.		0