

# Declan C Schroeder

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

7,005  
citations

87888

38  
h-index

64796

79  
g-index

97  
all docs

97  
docs citations

97  
times ranked

7446  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. <i>PLoS Biology</i> , 2014, 12, e1001889.                                   | 5.6  | 885       |
| 2  | The <i>Ectocarpus</i> genome and the independent evolution of multicellularity in brown algae. <i>Nature</i> , 2010, 465, 617-621.   | 27.8 | 774       |
| 3  | Global Honey Bee Viral Landscape Altered by a Parasitic Mite. <i>Science</i> , 2012, 336, 1304-1306.   | 12.6 | 548       |
| 4  | Pan genome of the phytoplankton <i>Emiliana</i> underpins its global distribution. <i>Nature</i> , 2013, 499, 209-213.   | 27.8 | 448       |
| 5  | Complete Genome Sequence and Lytic Phase Transcription Profile of a <i>Coccolithovirus</i> . <i>Science</i> , 2005, 309, 1090-1092.  | 12.6 | 270       |
| 6  | Deformed Wing Virus Implicated in Overwintering Honeybee Colony Losses. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7212-7220.   | 3.1  | 247       |
| 7  | Global-scale processes with a nanoscale drive: the role of marine viruses. <i>ISME Journal</i> , 2008, 2, 575-578.   | 9.8  | 226       |
| 8  | The ocean sampling day consortium. <i>GigaScience</i> , 2015, 4, 27.   | 6.4  | 185       |
| 9  | Isolation of viruses responsible for the demise of an <i>Emiliana huxleyi</i> bloom in the English Channel. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2002, 82, 369-377.   | 0.8  | 173       |
| 10 | Dissecting the impact of CO <sub>2</sub> and pH on the mechanisms of photosynthesis and calcification in the coccolithophore <i>Emiliana huxleyi</i> . <i>New Phytologist</i> , 2013, 199, 121-134.  | 7.3  | 171       |
| 11 | On the description of <i>Tisochrysis lutea</i> gen. nov. sp. nov. and <i>Isochrysis nuda</i> sp. nov. in the Isochrysidales, and the transfer of <i>Dicrateria</i> to the Pymnesiales (Haptophyta). <i>Journal of Applied Phycology</i> , 2013, 25, 1763-1776. | 2.8  | 169       |
| 12 | <i>Coccolithovirus</i> (Phycodnaviridae): Characterisation of a new large dsDNA algal virus that infects <i>Emiliana huxleyi</i> . <i>Archives of Virology</i> , 2002, 147, 1685-1698.   | 2.1  | 168       |
| 13 | Diversity in a honey bee pathogen: first report of a third master variant of the Deformed Wing Virus quasispecies. <i>ISME Journal</i> , 2016, 10, 1264-1273.  | 9.8  | 147       |
| 14 | A unicellular algal virus, <i>Emiliana huxleyi</i> virus 86, exploits an animal-like infection strategy. <i>Journal of General Virology</i> , 2009, 90, 2306-2316.   | 2.9  | 119       |
| 15 | Molecular Mechanisms Underlying Calcification in Coccolithophores. <i>Geomicrobiology Journal</i> , 2010, 27, 585-595.   | 2.0  | 110       |
| 16 | Virus Succession Observed during an <i>Emiliana huxleyi</i> Bloom. <i>Applied and Environmental Microbiology</i> , 2003, 69, 2484-2490.  | 3.1  | 108       |
| 17 | Molecular Dynamics of <i>Emiliana huxleyi</i> and Cooccurring Viruses during Two Separate Mesocosm Studies. <i>Applied and Environmental Microbiology</i> , 2007, 73, 554-562.   | 3.1  | 90        |
| 18 | Superinfection exclusion and the long-term survival of honey bees in <i>Varroa</i> -infested colonies. <i>ISME Journal</i> , 2016, 10, 1182-1191.  | 9.8  | 88        |

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|----|---|------|-----------|
| 19 | Expression of biomineralization-related ion transport genes in <i>Emiliania huxleyi</i> . <i>Environmental Microbiology</i> , 2011, 13, 3250-3265.  | 3.8  | 82        |
| 20 | A role for diatom-like silicon transporters in calcifying coccolithophores. <i>Nature Communications</i> , 2016, 7, 10543.  | 12.8 | 78        |
| 21 | Bee Viruses: Routes of Infection in Hymenoptera. <i>Frontiers in Microbiology</i> , 2020, 11, 943.  | 3.5  | 76        |
| 22 | A light in the darkness: New biotransformation genes, antioxidant parameters and tissue-specific responses in oysters exposed to phenanthrene. <i>Aquatic Toxicology</i> , 2014, 152, 324-334.  | 4.0  | 71        |
| 23 | A GENETIC MARKER TO SEPARATE EMILIANIA HUXLEYI (PRYMNESIOPHYCEAE) MORPHOTYPES1. <i>Journal of Phycology</i> , 2005, 41, 874-879.  | 2.3  | 67        |
| 24 | ABC Assay: Method Development and Application to Quantify the Role of Three DWV Master Variants in Overwinter Colony Losses of European Honey Bees. <i>Viruses</i> , 2017, 9, 314.  | 3.3  | 62        |
| 25 | DWV-A Lethal to Honey Bees ( <i>Apis mellifera</i> ): A Colony Level Survey of DWV Variants (A, B, and C) in England, Wales, and 32 States across the US. <i>Viruses</i> , 2019, 11, 426.   | 3.3  | 62        |
| 26 | Deformed wing virus. <i>Virulence</i> , 2012, 3, 589-591.   | 4.4  | 58        |
| 27 | Investigation of the role of a $\beta$ (1 $\rightarrow$ 4) agarase produced by <i>Pseudoalteromonas gracilis</i> B9 in eliciting disease symptoms in the red alga <i>Gracilaria gracilis</i> . <i>Microbiology (United Kingdom)</i> , 2003, 149, 2919-2929. | 1.8  | 57        |
| 28 | Evolutionary History of the Coccolithoviridae. <i>Molecular Biology and Evolution</i> , 2006, 23, 86-92.  | 8.9  | 57        |
| 29 | Temporal Dynamics of Co-circulating Lineages of Porcine Reproductive and Respiratory Syndrome Virus. <i>Frontiers in Microbiology</i> , 2019, 10, 2486.   | 3.5  | 56        |
| 30 | Moku virus; a new Iflavirus found in wasps, honey bees and <i>Varroa</i> . <i>Scientific Reports</i> , 2016, 6, 34983.  | 3.3  | 55        |
| 31 | Key metabolic pathways involved in xenobiotic biotransformation and stress responses revealed by transcriptomics of the mangrove oyster <i>Crassostrea brasiliana</i> . <i>Aquatic Toxicology</i> , 2015, 166, 10-20.                                       | 4.0  | 53        |
| 32 | Locus-Specific Gene Expression Pattern Suggests a Unique Propagation Strategy for a Giant Algal Virus. <i>Journal of Virology</i> , 2006, 80, 7699-7705.  | 3.4  | 49        |
| 33 | Tissue-Specific Expression of <i>p53</i> and <i>ras</i> Genes in Response to the Environmental Genotoxicant Benzo( $\pm$ )pyrene in Marine Mussels. <i>Environmental Science &amp; Technology</i> , 2011, 45, 8974-8981.                                    | 10.0 | 49        |
| 34 | A Comparison of Deformed Wing Virus in Deformed and Asymptomatic Honey Bees. <i>Insects</i> , 2017, 8, 28.  | 2.2  | 45        |
| 35 | The use of RNA-dependent RNA polymerase for the taxonomic assignment of Picorna-like viruses (order) Tj ETQq1 1,0784314 rgBT /Ove   | 3.4  | 44        |
| 36 | Occurrence and genetic analysis of picorna-like viruses infecting worker bees of <i>Apis mellifera</i> L. populations in Devon, South West England. <i>Journal of Invertebrate Pathology</i> , 2008, 98, 239-242.   | 3.2  | 43        |

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|----|--|------|-----------|
| 37 | Use of microarrays to assess viral diversity: from genotype to phenotype. <i>Environmental Microbiology</i> , 2007, 9, 971-982.  | 3.8  | 42        |
| 38 | The Continuous Plankton Recorder survey: How can long-term phytoplankton datasets contribute to the assessment of Good Environmental Status?. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 162, 88-97.  | 2.1  | 42        |
| 39 | Reinstatement of <i>Ectocarpus crouaniorum</i> Thuret in Le Jolis as a third common species of <i>Ectocarpus</i> (Ectocarpales, Phaeophyceae) in Western Europe, and its phenology at Roscoff, Brittany. <i>Phycological Research</i> , 2010, 58, 157-170.     | 1.6  | 38        |
| 40 | Phylogenetic Structure and Sequential Dominance of Sub-Lineages of PRRSV Type-2 Lineage 1 in the United States. <i>Vaccines</i> , 2021, 9, 608.  | 4.4  | 38        |
| 41 | Flexible genes establish widespread bacteriophage pan-genomes in cryoconite hole ecosystems. <i>Nature Communications</i> , 2020, 11, 4403.  | 12.8 | 36        |
| 42 | Genotyping an <i>Emiliana huxleyi</i> (prymnesiophyceae) bloom event in the North Sea reveals evidence of asexual reproduction. <i>Biogeosciences</i> , 2014, 11, 5215-5234.   | 3.3  | 35        |
| 43 | Meta-analysis of honey bee neurogenomic response links Deformed wing virus type A to precocious behavioral maturation. <i>Scientific Reports</i> , 2020, 10, 3101.   | 3.3  | 35        |
| 44 | Environmental carbonate chemistry selects for phenotype of recently isolated strains of <i>Emiliana huxleyi</i> . <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 127, 28-40.  | 1.4  | 34        |
| 45 | Integrated biological responses and tissue-specific expression of <i>p53</i> and <i>ras</i> genes in marine mussels following exposure to benzo(a)pyrene and C <sub>60</sub> fullerenes, either alone or in combination. <i>Mutagenesis</i> , 2017, 32, 77-90. | 2.6  | 33        |
| 46 | Genome comparison of two Coccolithoviruses. <i>Virology Journal</i> , 2006, 3, 15.   | 3.4  | 32        |
| 47 | Identification of a Diagnostic Marker To Detect Freshwater Cyanophages of Filamentous Cyanobacteria. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5713-5719.  | 3.1  | 31        |
| 48 | RNAseq Analysis Reveals Virus Diversity within Hawaiian Apiary Insect Communities. <i>Viruses</i> , 2019, 11, 397.   | 3.3  | 28        |
| 49 | Genomic analysis of the smallest giant virus "Feldmannia sp. virus 158". <i>Virology</i> , 2009, 384, 223-232.   | 2.4  | 27        |
| 50 | Dynamics and genotypic composition of <i>Emiliana huxleyi</i> and their co-occurring viruses during a coccolithophore bloom in the North Sea. <i>FEMS Microbiology Ecology</i> , 2012, 81, 315-323.  | 2.7  | 27        |
| 51 | Preliminary characterisation of repeat families in the genome of EhV-86, a giant algal virus that infects the marine microalga <i>Emiliana huxleyi</i> . <i>Archives of Virology</i> , 2006, 151, 525-535.   | 2.1  | 26        |
| 52 | Molecular tools separate harmful algal bloom species, <i>Karenia mikimotoi</i> , from different geographical regions into distinct sub-groups. <i>Harmful Algae</i> , 2011, 10, 636-643.   | 4.8  | 26        |
| 53 | Phaeoviruses discovered in kelp (Laminariales). <i>ISME Journal</i> , 2017, 11, 2869-2873.   | 9.8  | 24        |
| 54 | Variability in microbial population dynamics between similarly perturbed mesocosms. <i>Journal of Plankton Research</i> , 2006, 28, 783-791.   | 1.8  | 23        |

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|----|---|-----|-----------|
| 55 | Distinct Oceanic Microbiomes From Viruses to Protists Located Near the Antarctic Circumpolar Current. <i>Frontiers in Microbiology</i> , 2018, 9, 1474.   | 3.5 | 23        |
| 56 | Genetic diversity of <i>Ectocarpus</i> (Ectocarpales, Phaeophyceae) in Peru and northern Chile, the area of origin of the genome-sequenced strain. <i>New Phytologist</i> , 2010, 188, 30-41.   | 7.3 | 20        |
| 57 | Isolation and Characterization of a Double Stranded DNA Megavirus Infecting the Toxin-Producing Haptophyte <i>Prymnesium parvum</i> . <i>Viruses</i> , 2017, 9, 40.   | 3.3 | 20        |
| 58 | <i>Pentaplecodinium saltonense</i> gen. et sp. nov. (Dinophyceae) and its relationship to the cyst-defined genus <i>Operculodinium</i> and yessotoxin-producing <i>Protoceratium reticulatum</i> . <i>Harmful Algae</i> , 2018, 71, 57-77.                        | 4.8 | 20        |
| 59 | Detection and Replication of Moku Virus in Honey Bees and Social Wasps. <i>Viruses</i> , 2020, 12, 607.   | 3.3 | 20        |
| 60 | Phylogenetic analysis of PgV-102P, a new virus from the English Channel that infects <i>Phaeocystis globosa</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2006, 86, 485-490.  | 0.8 | 19        |
| 61 | Novel virus dynamics in an <i>Emiliana huxleyi</i> bloom. <i>Journal of Plankton Research</i> , 2009, 31, 787-791.  | 1.8 | 19        |
| 62 | RNAseq of Deformed Wing Virus and Other Honey Bee-Associated Viruses in Eight Insect Taxa with or without <i>Varroa</i> Infestation. <i>Viruses</i> , 2020, 12, 1229.   | 3.3 | 19        |
| 63 | Development and validation of a molecular technique for the analysis of archived formalin-preserved phytoplankton samples permits retrospective assessment of <i>Emiliana huxleyi</i> communities. <i>Journal of Microbiological Methods</i> , 2008, 73, 118-124. | 1.6 | 18        |
| 64 | The <i>Ectocarpus</i> Genome and Brown Algal Genomics. <i>Advances in Botanical Research</i> , 2012, 64, 141-184.   | 1.1 | 18        |
| 65 | New perspectives for evaluating relative risks of African swine fever virus contamination in global feed ingredient supply chains. <i>Transboundary and Emerging Diseases</i> , 2022, 69, 31-56.  | 3.0 | 18        |
| 66 | A Pelagic Microbiome (Viruses to Protists) from a Small Cup of Seawater. <i>Viruses</i> , 2017, 9, 47.  | 3.3 | 17        |
| 67 | How many Coccolithovirus genotypes does it take to terminate an <i>Emiliana huxleyi</i> bloom?. <i>Virology</i> , 2014, 466-467, 138-145.   | 2.4 | 16        |
| 68 | A Novel Evolutionary Strategy Revealed in the Phaeoviruses. <i>PLoS ONE</i> , 2014, 9, e86040.  | 2.5 | 14        |
| 69 | Deformed wing virus variant shift from 2010 to 2016 in managed and feral UK honey bee colonies. <i>Archives of Virology</i> , 2021, 166, 2693-2702.   | 2.1 | 14        |
| 70 | Ten Years of Deformed Wing Virus (DWW) in Hawaiian Honey Bees ( <i>Apis mellifera</i> ), the Dominant DWW-A Variant Is Potentially Being Replaced by Variants with a DWW-B Coding Sequence. <i>Viruses</i> , 2021, 13, 969.                                       | 3.3 | 13        |
| 71 | Phaeoviral Infections Are Present in <i>Macrocystis</i> , <i>Ecklonia</i> and <i>Undaria</i> (Laminariales) and Are Influenced by Wave Exposure in Ectocarpales. <i>Viruses</i> , 2018, 10, 410.  | 3.3 | 12        |
| 72 | Effect of Metals on the Lytic Cycle of the Coccolithovirus, EhV86. <i>Frontiers in Microbiology</i> , 2012, 3, 155.   | 3.5 | 11        |

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|----|--|-----|-----------|
| 73 | Implications of increasing Atlantic influence for Arctic microbial community structure. <i>Scientific Reports</i> , 2020, 10, 19262.   | 3.3 | 11        |
| 74 | Choice of molecular barcode will affect species prevalence but not bacterial community composition. <i>Marine Genomics</i> , 2016, 29, 39-43.  | 1.1 | 10        |
| 75 | Change in <i>Emiliana huxleyi</i> Virus Assemblage Diversity but Not in Host Genetic Composition during an Ocean Acidification Mesocosm Experiment. <i>Viruses</i> , 2017, 9, 41.  | 3.3 | 10        |
| 76 | Schrödingera€™s Cheshire Cat: Are Haploid <i>Emiliana huxleyi</i> Cells Resistant to Viral Infection or Not?. <i>Viruses</i> , 2017, 9, 51.  | 3.3 | 10        |
| 77 | Detection of Multiple Lineages of PRRSV in Breeding and Growing Swine Farms. <i>Frontiers in Veterinary Science</i> , 0, 9, .  | 2.2 | 10        |
| 78 | The Pathogen Profile of a Honey Bee Queen Does Not Reflect That of Her Workers. <i>Insects</i> , 2020, 11, 382.  | 2.2 | 9         |
| 79 | Molecular and phylogenetic analysis reveals new diversity of <i>Dunaliella salina</i> from hypersaline environments. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2021, 101, 27-37.   | 0.8 | 9         |
| 80 | More to Phaeovirus infections than first meets the eye. <i>Perspectives in Phycology</i> , 2015, 2, 105-109.   | 1.9 | 9         |
| 81 | Fingerprinting aquatic virus communities. , 0, , 9-18.   |     | 8         |
| 82 | Day length as a key factor moderating the response of coccolithophore growth to elevated $CO_2$ . <i>Limnology and Oceanography</i> , 2019, 64, 1284-1296.   | 3.1 | 7         |
| 83 | Phycodnaviruses (Phycodnaviridae). , 2021, , 687-695.  |     | 7         |
| 84 | Tracing Viral Transmission and Evolution of Bovine Leukemia Virus through Long Read Oxford Nanopore Sequencing of the Proviral Genome. <i>Pathogens</i> , 2021, 10, 1191.  | 2.8 | 5         |
| 85 | Phylogenetically Distinct Near-Complete Genome Sequences of Porcine Reproductive and Respiratory Syndrome Virus Type 2 Variants from Four Distinct Disease Outbreaks at U.S. Swine Farms over the Past 6 Years. <i>Microbiology Resource Announcements</i> , 2021, 10, e0026021. | 0.6 | 4         |
| 86 | Uses of molecular taxonomy in identifying phytoplankton communities from the Continuous Plankton Recorder Survey. , 2022, , 47-79.   |     | 2         |
| 87 | Sequencing and characterization of virus genomes. , 2010, , 134-144.   |     | 1         |
| 88 | The CO <sub>2</sub> microalgae biorefinery: high value products and biofuels using halophilic microalgae in the a€œD-Factorya€œ. <i>New Biotechnology</i> , 2014, 31, S14-S15.   | 4.4 | 1         |
| 89 | Opening the door to new virus interactions in the aquatic world. <i>Journal of Phycology</i> , 2016, 52, 491-492.  | 2.3 | 1         |
| 90 | A longitudinal study on PRRSV detection in swine herds with different demographics and PRRSV management strategies. <i>Transboundary and Emerging Diseases</i> , 2021, , .   | 3.0 | 1         |