

Thomas M Schmidt

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

33,100
citations

19657

61
h-index

28297

105
g-index

118
all docs

118
docs citations

118
times ranked

38391
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Conceptual Exchanges for Understanding Free-Living and Host-Associated Microbiomes. <i>MSystems</i> , 2022, 7, e0137421. | 3.8 | 3 |
| 2 | Diverse events have transferred genes for edible seaweed digestion from marine to human gut bacteria. <i>Cell Host and Microbe</i> , 2022, 30, 314-328.e11. | 11.0 | 25 |
| 3 | Mechanistic insights into consumption of the food additive xanthan gum by the human gut microbiota. <i>Nature Microbiology</i> , 2022, 7, 556-569. | 13.3 | 21 |
| 4 | Stitching together a healthy gut microbiome with fiber. <i>Cell Host and Microbe</i> , 2022, 30, 762-763. | 11.0 | 0 |
| 5 | Analysis of the first magnetic results of the PSI APPLE X undulators in elliptical polarisation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 987, 164741. | 1.6 | 8 |
| 6 | Targeting the Gut Microbiome to Mitigate Immunotherapy-Induced Colitis in Cancer. <i>Trends in Cancer</i> , 2021, 7, 583-593. | 7.4 | 26 |
| 7 | Demonstration of a compact x-ray free-electron laser using the optical klystron effect. <i>Applied Physics Letters</i> , 2021, 119, . | 3.3 | 6 |
| 8 | <i>Muribaculaceae</i> Genomes Assembled from Metagenomes Suggest Genetic Drivers of Differential Response to Acarbose Treatment in Mice. <i>MSphere</i> , 2021, 6, e0085121. | 2.9 | 53 |
| 9 | The emergence of microbiome centres. <i>Nature Microbiology</i> , 2020, 5, 2-3. | 13.3 | 13 |
| 10 | Lung and gut microbiota are altered by hyperoxia and contribute to oxygen-induced lung injury in mice. <i>Science Translational Medicine</i> , 2020, 12, . | 12.4 | 97 |
| 11 | A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. <i>Nature Photonics</i> , 2020, 14, 748-754. | 31.4 | 140 |
| 12 | A synthesis of bacterial and archaeal phenotypic trait data. <i>Scientific Data</i> , 2020, 7, 170. | 5.3 | 59 |
| 13 | The Cancer Microbiome: Distinguishing Direct and Indirect Effects Requires a Systemic View. <i>Trends in Cancer</i> , 2020, 6, 192-204. | 7.4 | 162 |
| 14 | Dynamics of Human Gut Microbiota and Short-Chain Fatty Acids in Response to Dietary Interventions with Three Fermentable Fibers. <i>MBio</i> , 2019, 10, . | 4.1 | 515 |
| 15 | Changes in the gut microbiome and fermentation products concurrent with enhanced longevity in acarbose-treated mice. <i>BMC Microbiology</i> , 2019, 19, 130. | 3.3 | 218 |
| 16 | Butyrogenic bacteria after acute graft-versus-host disease (GVHD) are associated with the development of steroid-refractory GVHD. <i>Blood Advances</i> , 2019, 3, 2866-2869. | 5.2 | 40 |
| 17 | Microfluidic Sensors with Impregnated Fluorophores for Simultaneous Imaging of Spatial Structure and Chemical Oxygen Gradients. <i>ACS Sensors</i> , 2019, 4, 317-325. | 7.8 | 5 |
| 18 | Effects of Atypical Antipsychotic Treatment and Resistant Starch Supplementation on Gut Microbiome Composition in a Cohort of Patients with Bipolar Disorder or Schizophrenia. <i>Pharmacotherapy</i> , 2019, 39, 161-170. | 2.6 | 81 |

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|----|--|------|-----------|
| 19 | The SwissFEL soft X-ray free-electron laser beamline: Athos. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1073-1084. | 2.4 | 51 |
| 20 | Rational Modification of Intestinal Microbiome and Metabolites after Allogeneic Hematopoietic Stem Cell Transplantation with Resistant Starch: A Pilot Study. <i>Blood</i> , 2019, 134, 3276-3276. | 1.4 | 1 |
| 21 | Biomass and biofuel crop effects on biodiversity and ecosystem services in the North Central US. <i>Biomass and Bioenergy</i> , 2018, 114, 18-29. | 5.7 | 61 |
| 22 | Bacterial Dissemination to the Brain in Sepsis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 747-756. | 5.6 | 74 |
| 23 | Neonatal acquisition of <i>Clostridia</i> species protects against colonization by bacterial pathogens. <i>Science</i> , 2017, 356, 315-319. | 12.6 | 199 |
| 24 | SwissFEL: The Swiss X-ray Free Electron Laser. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 720. | 2.5 | 272 |
| 25 | Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium. <i>ELife</i> , 2017, 6, . | 6.0 | 132 |
| 26 | Vertebrate Hosts as Islands: Dynamics of Selection, Immigration, Loss, Persistence, and Potential Function of Bacteria on Salamander Skin. <i>Frontiers in Microbiology</i> , 2016, 7, 333. | 3.5 | 65 |
| 27 | Undulator beamline optimization with integrated chicanes for X-ray free-electron-laser facilities. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 861-868. | 2.4 | 18 |
| 28 | Exploiting rRNA operon copy number to investigate bacterial reproductive strategies. <i>Nature Microbiology</i> , 2016, 1, 16160. | 13.3 | 371 |
| 29 | Variable responses of human microbiomes to dietary supplementation with resistant starch. <i>Microbiome</i> , 2016, 4, 33. | 11.1 | 269 |
| 30 | Gut microbiome-derived metabolites modulate intestinal epithelial cell damage and mitigate graft-versus-host disease. <i>Nature Immunology</i> , 2016, 17, 505-513. | 14.5 | 536 |
| 31 | Age-Related Variation in the Scent Pouch Bacterial Communities of Striped Hyenas (<i>Hyaena hyaena</i>). , 2016, , 87-103. | | 8 |
| 32 | Analysis of the Upper Respiratory Tract Microbiotas as the Source of the Lung and Gastric Microbiotas in Healthy Individuals. <i>MBio</i> , 2015, 6, e00037. | 4.1 | 601 |
| 33 | Application of a Neutral Community Model To Assess Structuring of the Human Lung Microbiome. <i>MBio</i> , 2015, 6, . | 4.1 | 325 |
| 34 | The physiology and ecological implications of efficient growth. <i>ISME Journal</i> , 2015, 9, 1481-1487. | 9.8 | 155 |
| 35 | The daily dynamics of cystic fibrosis airway microbiota during clinical stability and at exacerbation. <i>Microbiome</i> , 2015, 3, 12. | 11.1 | 122 |
| 36 | Multicenter Comparison of Lung and Oral Microbiomes of HIV-infected and HIV-uninfected Individuals. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 192, 1335-1344. | 5.6 | 120 |

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|----|--|------|-----------|
| 37 | rrnDB: improved tools for interpreting rRNA gene abundance in bacteria and archaea and a new foundation for future development. <i>Nucleic Acids Research</i> , 2015, 43, D593-D598. | 14.5 | 817 |
| 38 | Bacterial Communities in Malagasy Soils with Differing Levels of Disturbance Affecting Botanical Diversity. <i>PLoS ONE</i> , 2014, 9, e85097. | 2.5 | 11 |
| 39 | Perennial grasslands enhance biodiversity and multiple ecosystem services in bioenergy landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1652-1657. | 7.1 | 366 |
| 40 | Farming for Ecosystem Services: An Ecological Approach to Production Agriculture. <i>BioScience</i> , 2014, 64, 404-415. | 4.9 | 184 |
| 41 | Bacterial growth efficiency varies in soils under different land management practices. <i>Soil Biology and Biochemistry</i> , 2014, 69, 282-290. | 8.8 | 60 |
| 42 | A Little O ₂ May Go a Long Way in Structuring the GI Microbiome. <i>Gastroenterology</i> , 2014, 147, 956-959. | 1.3 | 12 |
| 43 | Multiphasic analysis of the temporal development of the distal gut microbiota in patients following ileal pouch anal anastomosis. <i>Microbiome</i> , 2013, 1, 9. | 11.1 | 35 |
| 44 | A gene-targeted approach to investigate the intestinal butyrate-producing bacterial community. <i>Microbiome</i> , 2013, 1, 8. | 11.1 | 129 |
| 45 | Functional Gene Differences in Soil Microbial Communities from Conventional, Low-Input, and Organic Farmlands. <i>Applied and Environmental Microbiology</i> , 2013, 79, 1284-1292. | 3.1 | 90 |
| 46 | Shallow breathing: bacterial life at low O ₂ . <i>Nature Reviews Microbiology</i> , 2013, 11, 205-212. | 28.6 | 188 |
| 47 | Comparison of the Respiratory Microbiome in Healthy Nonsmokers and Smokers. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 1067-1075. | 5.6 | 655 |
| 48 | Development of an ecophysiological model for <i>Diplosphaera colotermitum</i> TAV2, a termite hindgut Verrucomicrobium. <i>ISME Journal</i> , 2013, 7, 1803-1813. | 9.8 | 18 |
| 49 | Symbiotic bacteria appear to mediate hyena social odors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19832-19837. | 7.1 | 184 |
| 50 | Genomic and Physiological Characterization of the Verrucomicrobia Isolate <i>Diplosphaera colotermitum</i> gen. nov., sp. nov., Reveals Microaerophily and Nitrogen Fixation Genes. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1544-1555. | 3.1 | 115 |
| 51 | Fundamentals of Microbial Community Resistance and Resilience. <i>Frontiers in Microbiology</i> , 2012, 3, 417. | 3.5 | 1,131 |
| 52 | Structure, function and diversity of the healthy human microbiome. <i>Nature</i> , 2012, 486, 207-214. | 27.8 | 9,614 |
| 53 | Evidence for a bacterial mechanism for group-specific social odors among hyenas. <i>Scientific Reports</i> , 2012, 2, 615. | 3.3 | 107 |
| 54 | A framework for human microbiome research. <i>Nature</i> , 2012, 486, 215-221. | 27.8 | 2,249 |

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|----|---|------|-----------|
| 55 | Bacteria Battling for Survival. , 2012, , 59-64. | | 2 |
| 56 | Studying the Enteric Microbiome in Inflammatory Bowel Diseases: Getting through the Growing Pains and Moving Forward. <i>Frontiers in Microbiology</i> , 2011, 2, 144. | 3.5 | 20 |
| 57 | Agriculture's impact on microbial diversity and associated fluxes of carbon dioxide and methane. <i>ISME Journal</i> , 2011, 5, 1683-1691. | 9.8 | 138 |
| 58 | Land-use history has a stronger impact on soil microbial community composition than aboveground vegetation and soil properties. <i>Soil Biology and Biochemistry</i> , 2011, 43, 2184-2193. | 8.8 | 362 |
| 59 | Influence of Plant Polymers on the Distribution and Cultivation of Bacteria in the Phylum <i>Acidobacteria</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 586-596. | 3.1 | 227 |
| 60 | Identifying and Removing Artificial Replicates from 454 Pyrosequencing Data. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5409-pdb.prot5409. | 0.3 | 14 |
| 61 | rrnDB: documenting the number of rRNA and tRNA genes in bacteria and archaea. <i>Nucleic Acids Research</i> , 2009, 37, D489-D493. | 14.5 | 398 |
| 62 | Systematic artifacts in metagenomes from complex microbial communities. <i>ISME Journal</i> , 2009, 3, 1314-1317. | 9.8 | 412 |
| 63 | Reproducible Community Dynamics of the Gastrointestinal Microbiota following Antibiotic Perturbation. <i>Infection and Immunity</i> , 2009, 77, 2367-2375. | 2.2 | 489 |
| 64 | Physiological and Ecological Adaptations of Slow-Growing, Heterotrophic Microbes and Consequences for Cultivation. <i>Microbiology Monographs</i> , 2009, , 257-276. | 0.6 | 6 |
| 65 | A systems approach to model natural variation in reactive properties of bacterial ribosomes. <i>BMC Systems Biology</i> , 2008, 2, 62. | 3.0 | 5 |
| 66 | Phylogenetic Characterization and Prevalence of <i>Spirobacillus cienkowskii</i> , a Red-Pigmented, Spiral-Shaped Bacterial Pathogen of Freshwater <i>Daphnia</i> Species. <i>Applied and Environmental Microbiology</i> , 2008, 74, 1575-1582. | 3.1 | 24 |
| 67 | Decreased Diversity of the Fecal Microbiome in Recurrent <i>Clostridium difficile</i> Associated Diarrhea. <i>Journal of Infectious Diseases</i> , 2008, 197, 435-438. | 4.0 | 954 |
| 68 | Overview of the Gastrointestinal Microbiota. <i>Advances in Experimental Medicine and Biology</i> , 2008, 635, 29-40. | 1.6 | 35 |
| 69 | Performance of the Translational Apparatus Varies with the Ecological Strategies of Bacteria. <i>Journal of Bacteriology</i> , 2007, 189, 3237-3245. | 2.2 | 77 |
| 70 | The effect of natural selection on the performance of maximum parsimony. <i>BMC Evolutionary Biology</i> , 2007, 7, 94. | 3.2 | 8 |
| 71 | Isolation and Characterization of Soil Bacteria That Define <i>Terriglobus</i> gen. nov., in the Phylum <i>Acidobacteria</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 2708-2717. | 3.1 | 301 |
| 72 | The maturing of microbial ecology. <i>International Microbiology</i> , 2006, 9, 217-23. | 2.4 | 24 |

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|----|---|------|-----------|
| 73 | Differences in codon bias cannot explain differences in translational power among microbes. BMC Bioinformatics, 2005, 6, 3. | 2.6 | 11 |
| 74 | Colonization of the Cecal Mucosa by Helicobacter hepaticus Impacts the Diversity of the Indigenous Microbiota. Infection and Immunity, 2005, 73, 6952-6961. | 2.2 | 72 |
| 75 | Antibiotic-Associated Diarrhea Accompanied by Large-Scale Alterations in the Composition of the Fecal Microbiota. Journal of Clinical Microbiology, 2004, 42, 1203-1206. | 3.9 | 282 |
| 76 | Life History Implications of rRNA Gene Copy Number in Escherichia coli. Applied and Environmental Microbiology, 2004, 70, 6670-6677. | 3.1 | 141 |
| 77 | Changes in Synechococcus Population Size and Cellular Ribosomal RNA Content in Response to Predation and Nutrient Limitation. Microbial Ecology, 2004, 48, 1-9. | 2.8 | 1 |
| 78 | New Strategies for Cultivation and Detection of Previously Uncultured Microbes. Applied and Environmental Microbiology, 2004, 70, 4748-4755. | 3.1 | 369 |
| 79 | Archaeal nucleic acids in picoplankton from great lakes on three continents. Microbial Ecology, 2003, 46, 238-248. | 2.8 | 101 |
| 80 | Diversity and dynamics of microbial communities in soils from agro-ecosystems. Environmental Microbiology, 2003, 5, 441-452. | 3.8 | 266 |
| 81 | The Ribosomal Database Project (RDP-II): previewing a new autoaligner that allows regular updates and the new prokaryotic taxonomy. Nucleic Acids Research, 2003, 31, 442-443. | 14.5 | 1,219 |
| 82 | The Effect of Natural Selection on Phylogeny Reconstruction Algorithms. Lecture Notes in Computer Science, 2003, , 13-24. | 1.3 | 3 |
| 83 | Rates and Consequences of Recombination between rRNA Operons. Journal of Bacteriology, 2003, 185, 966-972. | 2.2 | 71 |
| 84 | Role of Rhodobacter sp. Strain PS9, a Purple Non-Sulfur Photosynthetic Bacterium Isolated from an Anaerobic Swine Waste Lagoon, in Odor Remediation. Applied and Environmental Microbiology, 2003, 69, 1710-1720. | 3.1 | 51 |
| 85 | rrndb: the Ribosomal RNA Operon Copy Number Database. Nucleic Acids Research, 2001, 29, 181-184. | 14.5 | 882 |
| 86 | Environmental factors influencing the distribution of rRNA from Verrucomicrobia in soil. FEMS Microbiology Ecology, 2001, 35, 105-112. | 2.7 | 108 |
| 87 | Environmental factors influencing the distribution of rRNA from Verrucomicrobia in soil. FEMS Microbiology Ecology, 2001, 35, 105-112. | 2.7 | 4 |
| 88 | rRNA Operon Copy Number Reflects Ecological Strategies of Bacteria. Applied and Environmental Microbiology, 2000, 66, 1328-1333. | 3.1 | 932 |
| 89 | A new version of the RDP (Ribosomal Database Project). Nucleic Acids Research, 1999, 27, 171-173. | 14.5 | 863 |
| 90 | Acetogenesis from H ₂ Plus CO ₂ by Spirochetes from Termite Guts. Science, 1999, 283, 686-689. | 12.6 | 297 |

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| 91 | Application of Traditional and Phylogenetically Based Comparative Methods to Test for a Trade-off in Bacterial Growth Rate at Low versus High Substrate Concentration. <i>Microbial Ecology</i> , 1999, 38, 191. | 2.8 | 12 |
| 92 | Evolution of competitive fitness in experimental populations of <i>E. coli</i> : what makes one genotype a better competitor than another?. <i>Antonie Van Leeuwenhoek</i> , 1998, 73, 35-47. | 1.7 | 154 |
| 93 | Nucleic acid content of <i>Synechococcus</i> spp. during growth in continuous light and light/dark cycles. <i>Archives of Microbiology</i> , 1998, 170, 201-207. | 2.2 | 43 |
| 94 | Phylogenetic Analysis of Nonthermophilic Members of the Kingdom <i>Crenarchaeota</i> and Their Diversity and Abundance in Soils. <i>Applied and Environmental Microbiology</i> , 1998, 64, 4333-4339. | 3.1 | 187 |
| 95 | Multiplicity of Ribosomal RNA Operons in Prokaryotic Genomes. , 1998, , 221-229. | | 14 |
| 96 | A Small, Dilute-Cytoplasm, High-Affinity, Novel Bacterium Isolated by Extinction Culture and Having Kinetic Constants Compatible with Growth at Ambient Concentrations of Dissolved Nutrients in Seawater. <i>Applied and Environmental Microbiology</i> , 1998, 64, 4467-4476. | 3.1 | 92 |
| 97 | Growth Rate-Dependent Accumulation of RNA from Plasmid-Borne rRNA Operons in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1998, 180, 1970-1972. | 2.2 | 32 |
| 98 | Distribution of the <i>tfdA</i> Gene in Soil Bacteria That Do Not Degrade 2,4-Dichlorophenoxyacetic Acid (2,4-D). <i>Microbial Ecology</i> , 1997, 34, 90-96. | 2.8 | 43 |
| 99 | [16] Phylogenetic identification of uncultured pathogens using ribosomal RNA sequences. <i>Methods in Enzymology</i> , 1994, 235, 205-222. | 1.0 | 71 |
| 100 | Identification of the Uncultured <i>Bacillus</i> of Whipple's Disease. <i>New England Journal of Medicine</i> , 1992, 327, 293-301. | 27.0 | 1,196 |
| 101 | Phylogenetic relationships among the agent of bacillary angiomatosis, <i>Bartonella bacilliformis</i> , and other alpha-proteobacteria. <i>Molecular Microbiology</i> , 1992, 6, 1801-1807. | 2.5 | 111 |
| 102 | The first cellular bioenergetic process: Primitive generation of a proton-motive force. <i>Journal of Molecular Evolution</i> , 1991, 33, 297-304. | 1.8 | 44 |
| 103 | Spectral characterization of c-type cytochromes purified from <i>Beggiatoa alba</i> . <i>Archives of Microbiology</i> , 1990, 154, 453-458. | 2.2 | 29 |
| 104 | The Agent of Bacillary Angiomatosis. <i>New England Journal of Medicine</i> , 1990, 323, 1573-1580. | 27.0 | 985 |
| 105 | Electron transport and respiration in <i>Beggiatoa</i> and <i>Vitreoscilla</i> . <i>Archives of Microbiology</i> , 1986, 145, 71-75. | 2.2 | 11 |
| 106 | Protein synthesis by <i>Beggiatoa alba</i> B18LD in the presence and absence of sulfide. <i>Archives of Microbiology</i> , 1986, 144, 158-162. | 2.2 | 17 |
| 107 | Measurement of rRNA Abundance by Hybridization with Oligodeoxynucleotide Probes. , 0, , 897-908. | | 0 |