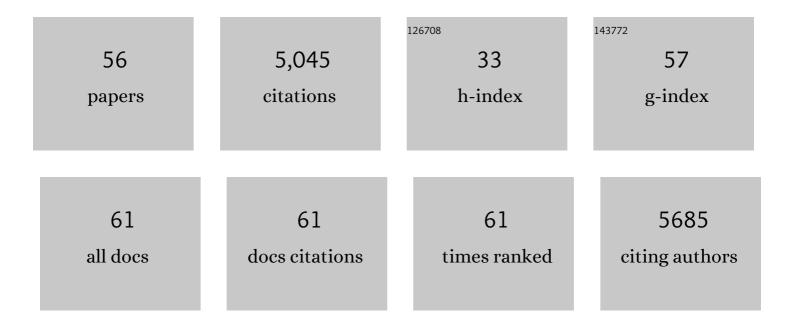
Jan-Hendrik Hehemann

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6558849/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | <i>Verrucomicrobiota</i> are specialist consumers of sulfated methyl pentoses during diatom blooms. ISME Journal, 2022, 16, 630-641. | 4.4 | 62 |
| 2 | Glycoside hydrolase from the GH76 family indicates that marine Salegentibacter sp. Hel_I_6 consumes alpha-mannan from fungi. ISME Journal, 2022, 16, 1818-1830. | 4.4 | 8 |
| 3 | lon-exchange purification and structural characterization of five sulfated fucoidans from brown algae. Glycobiology, 2021, 31, 352-357. | 1.3 | 18 |
| 4 | Quantifying fluorescent glycan uptake to elucidate strain-level variability in foraging behaviors of rumen bacteria. Microbiome, 2021, 9, 23. | 4.9 | 16 |
| 5 | Diatom fucan polysaccharide precipitates carbon during algal blooms. Nature Communications, 2021, 12, 1150. | 5.8 | 58 |
| 6 | Changing expression patterns of TonB-dependent transporters suggest shifts in polysaccharide consumption over the course of a spring phytoplankton bloom. ISME Journal, 2021, 15, 2336-2350. | 4.4 | 42 |
| 7 | Structural Basis of Ligand Selectivity by a Bacterial Adhesin Lectin Involved in Multispecies Biofilm Formation. MBio, 2021, 12, . | 1.8 | 7 |
| 8 | Enigmatic persistence of dissolved organic matter in the ocean. Nature Reviews Earth & Environment, 2021, 2, 570-583. | 12.2 | 84 |
| 9 | A new carbohydrate-active oligosaccharide dehydratase is involved in the degradation of ulvan. Journal of Biological Chemistry, 2021, 297, 101210. | 1.6 | 8 |
| 10 | Secretion of sulfated fucans by diatoms may contribute to marine aggregate formation. Limnology and Oceanography, 2021, 66, 3768-3782. | 1.6 | 16 |
| 11 | Characterization of the GH16 and GH17 laminarinases from Vibrio breoganii 1C10. Applied Microbiology and Biotechnology, 2020, 104, 161-171. | 1.7 | 15 |
| 12 | Laminarin is a major molecule in the marine carbon cycle. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6599-6607. | 3.3 | 123 |
| 13 | Plant speciesâ€specific recognition of long and short βâ€1,3â€linked glucans is mediated by different receptor systems. Plant Journal, 2020, 102, 1142-1156. | 2.8 | 50 |
| 14 | Discrimination of β-1,4- and β-1,3-Linkages in Native Oligosaccharides via Charge Transfer Dissociation Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 1249-1259. | 1.2 | 19 |
| 15 | Verrucomicrobia use hundreds of enzymes to digest the algal polysaccharide fucoidan. Nature Microbiology, 2020, 5, 1026-1039. | 5.9 | 182 |
| 16 | Polysaccharide utilization loci of North Sea <i>Flavobacteriia</i> as basis for using SusC/D-protein expression for predicting major phytoplankton glycans. ISME Journal, 2019, 13, 76-91. | 4.4 | 139 |
| 17 | Biphasic cellular adaptations and ecological implications of <i>Alteromonas macleodii</i> degrading a mixture of algal polysaccharides. ISME Journal, 2019, 13, 92-103. | 4.4 | 74 |
| 18 | A marine bacterial enzymatic cascade degrades the algal polysaccharide ulvan. Nature Chemical Biology, 2019, 15, 803-812. | 3.9 | 97 |

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|----|--|-----|-----------|
| 19 | FGB1 and WSC3 are <i>in plantaâ€</i> induced <i>β</i> â€glucanâ€binding fungal lectins with different functions. New Phytologist, 2019, 222, 1493-1506. | 3.5 | 43 |
| 20 | Single cell fluorescence imaging of glycan uptake by intestinal bacteria. ISME Journal, 2019, 13, 1883-1889. | 4.4 | 28 |
| 21 | Insights into the κ/Î1-carrageenan metabolism pathway of some marine Pseudoalteromonas species. Communications Biology, 2019, 2, 474. | 2.0 | 54 |
| 22 | Evolution of a Vegetarian Vibrio: Metabolic Specialization of Vibrio breoganii to Macroalgal Substrates. Journal of Bacteriology, 2018, 200, . | 1.0 | 24 |
| 23 | Oxidative demethylation of algal carbohydrates by cytochrome P450 monooxygenases. Nature Chemical Biology, 2018, 14, 342-344. | 3.9 | 47 |
| 24 | The Molecular Basis of Polysaccharide Sulfatase Activity and a Nomenclature for Catalytic Subsites in this Class of Enzyme. Structure, 2018, 26, 747-758.e4. | 1.6 | 30 |
| 25 | Specificity and mechanism of carbohydrate demethylation by cytochrome P450 monooxygenases. Biochemical Journal, 2018, 475, 3875-3886. | 1.7 | 11 |
| 26 | Alpha―and betaâ€mannan utilization by marine <i>Bacteroidetes</i> . Environmental Microbiology, 2018, 20, 4127-4140. | 1.8 | 31 |
| 27 | Molecular recognition of the betaâ€glucans laminarin and pustulan by a SusDâ€like glycanâ€binding protein of a marine <i>Bacteroidetes</i> . FEBS Journal, 2018, 285, 4465-4481. | 2.2 | 13 |
| 28 | Adaptive mechanisms that provide competitive advantages to marine bacteroidetes during microalgal blooms. ISME Journal, 2018, 12, 2894-2906. | 4.4 | 84 |
| 29 | Biochemical characterization of an ulvan lyase from the marine flavobacterium Formosa agariphila KMM 3901T. Applied Microbiology and Biotechnology, 2018, 102, 6987-6996. | 1.7 | 41 |
| 30 | Laminarin Quantification in Microalgae with Enzymes from Marine Microbes. Bio-protocol, 2018, 8, e2666. | 0.2 | 6 |
| 31 | Aquatic adaptation of a laterally acquired pectin degradation pathway in marine gammaproteobacteria. Environmental Microbiology, 2017, 19, 2320-2333. | 1.8 | 57 |
| 32 | Accurate Quantification of Laminarin in Marine Organic Matter with Enzymes from Marine Microbes. Applied and Environmental Microbiology, 2017, 83, . | 1.4 | 75 |
| 33 | Exploiting fine-scale genetic and physiological variation of closely related microbes to reveal unknown enzyme functions. Journal of Biological Chemistry, 2017, 292, 13056-13067. | 1.6 | 18 |
| 34 | Heterologous expression of LamA gene encoded endo-β-1,3-glucanase and CO2 fixation by bioengineered Synechococcus sp. PCC 7002. Frontiers of Environmental Science and Engineering, 2017, 11, 1. | 3.3 | 2 |
| 35 | Crystal structure of a marine glycoside hydrolase family 99â€related protein lacking catalytic machinery. Protein Science, 2017, 26, 2445-2450. | 3.1 | 1 |
| 36 | KdgF, the missing link in the microbial metabolism of uronate sugars from pectin and alginate. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6188-6193. | 3.3 | 80 |

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|----|---|-------------|---------------|
| 37 | Adaptive radiation by waves of gene transfer leads to fine-scale resource partitioning in marine microbes. Nature Communications, 2016, 7, 12860. | 5.8 | 140 |
| 38 | Structural and biochemical characterization of the laminarinase <i>Zg</i> LamC _{GH16} from <i>Zobellia galactanivorans</i> suggests preferred recognition of branched laminarin. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 173-184. | 2.5 | 34 |
| 39 | The Structure of RdDddP from Roseobacter denitrificans Reveals That DMSP Lyases in the DddP-Family Are Metalloenzymes. PLoS ONE, 2014, 9, e103128. | 1.1 | 22 |
| 40 | The β-Glucanase ZgLamA from Zobellia galactanivorans Evolved a Bent Active Site Adapted for Efficient Degradation of Algal Laminarin. Journal of Biological Chemistry, 2014, 289, 2027-2042. | 1.6 | 75 |
| 41 | Competition–dispersal tradeoff ecologically differentiates recently speciated marine bacterioplankton populations. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5622-5627. | 3.3 | 187 |
| 42 | A sweet new wave: structures and mechanisms of enzymes that digest polysaccharides from marine algae. Current Opinion in Structural Biology, 2014, 28, 77-86. | 2.6 | 112 |
| 43 | Dip in the gene pool: Metagenomic survey of natural coccolithovirus communities. Virology, 2014, 466-467, 129-137. | 1.1 | 10 |
| 44 | Comparative Biochemical Characterization of Three Exolytic Oligoalginate Lyases from Vibrio splendidus Reveals Complementary Substrate Scope, Temperature, and pH Adaptations. Applied and Environmental Microbiology, 2014, 80, 4207-4214. | 1.4 | 103 |
| 45 | Substrate Recognition and Hydrolysis by a Family 50 exo-β-Agarase, Aga50D, from the Marine Bacterium Saccharophagus degradans. Journal of Biological Chemistry, 2013, 288, 28078-28088. | 1.6 | 70 |
| 46 | Analysis of Keystone Enzyme in Agar Hydrolysis Provides Insight into the Degradation (of a) Tj ETQq0 0 0 rgBT /C |)verlock 1(|) Tf 50 382 T |
| 47 | Biochemical and Structural Characterization of the Complex Agarolytic Enzyme System from the Marine Bacterium Zobellia galactanivorans. Journal of Biological Chemistry, 2012, 287, 30571-30584. | 1.6 | 139 |
| 48 | Bacteria of the human gut microbiome catabolize red seaweed glycans with carbohydrate-active enzyme updates from extrinsic microbes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19786-19791. | 3.3 | 260 |
| 49 | Environmental and Gut Bacteroidetes: The Food Connection. Frontiers in Microbiology, 2011, 2, 93. | 1.5 | 989 |
| 50 | The Conformation and Function of a Multimodular Glycogen-Degrading Pneumococcal Virulence Factor. Structure, 2011, 19, 640-651. | 1.6 | 42 |
| 51 | <i>Ab initio</i> phasing of a nucleoside hydrolaseâ€related hypothetical protein from <i>Saccharophagus degradans</i> that is associated with carbohydrate metabolism. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2992-2998. | 1.5 | 3 |
| 52 | Structural analysis of the degradation products of porphyran digested by Zobellia galactanivorans β-porphyranase A. Carbohydrate Polymers, 2011, 83, 277-283. | 5.1 | 73 |
| 53 | Analysis of a New Family of Widely Distributed Metal-independent α-Mannosidases Provides Unique Insight into the Processing of N-Linked Glycans. Journal of Biological Chemistry, 2011, 286, 15586-15596. | 1.6 | 65 |
| 54 | Transfer of carbohydrate-active enzymes from marine bacteria to Japanese gut microbiota. Nature, 2010, 464, 908-912. | 13.7 | 905 |

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|----|---|-----|-----------|
| 55 | Portrait of an Enzyme, a Complete Structural Analysis of a Multimodular β-N-Acetylglucosaminidase from Clostridium perfringens. Journal of Biological Chemistry, 2009, 284, 9876-9884. | 1.6 | 40 |
| 56 | Autoproteolytic stability of a trypsin from the marine crab Cancer pagurus. Biochemical and Biophysical Research Communications, 2008, 370, 566-571. | 1.0 | 15 |