Ville-Petri Friman

List of Publications by Year in descending order

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Version: 2024-02-01

80 papers	5,100 citations	109321 35 h-index	102487 66 g-index
90 all docs	90 docs citations	90 times ranked	4839 citing authors

#	Article	IF	Citations
1	Inter-species interactions alter antibiotic efficacy in bacterial communities. ISME Journal, 2022, 16, 812-821.	9.8	41
2	Organochlorine contamination enriches virus-encoded metabolism and pesticide degradation associated auxiliary genes in soil microbiomes. ISME Journal, 2022, 16, 1397-1408.	9.8	45
3	Parallel evolution of Pseudomonas aeruginosa phage resistance and virulence loss in response to phage treatment in vivo and in vitro. ELife, 2022, 11, .	6.0	31
4	Plant pathogenic bacterium can rapidly evolve tolerance to an antimicrobial plant allelochemical. Evolutionary Applications, 2022, 15, 735-750.	3.1	4
5	Metaâ€analysis of diazotrophic signatures across terrestrial ecosystems at the continental scale. Environmental Microbiology, 2022, 24, 2013-2028.	3.8	9
6	Combining in vitro and in vivo screening to identify efficient Pseudomonas biocontrol strains against the phytopathogenic bacterium Ralstonia solanacearum. MicrobiologyOpen, 2022, 11, e1283.	3.0	13
7	Microbial eco-evolutionary dynamics in the plant rhizosphere. Current Opinion in Microbiology, 2022, 68, 102153.	5.1	14
8	Ecology and evolution of antimicrobial resistance in bacterial communities. ISME Journal, 2021, 15, 939-948.	9.8	131
9	MAUIâ€seq: Metabarcoding using amplicons with unique molecular identifiers to improve error correction. Molecular Ecology Resources, 2021, 21, 703-720.	4.8	11
10	Herbicide Selection Promotes Antibiotic Resistance in Soil Microbiomes. Molecular Biology and Evolution, 2021, 38, 2337-2350.	8.9	68
11	Livestock Manure Type Affects Microbial Community Composition and Assembly During Composting. Frontiers in Microbiology, 2021, 12, 621126.	3.5	52
12	The impact of intra-specific diversity in the rhizobia-legume symbiosis. Microbiology (United Kingdom), 2021, 167, .	1.8	6
13	The relative importance of soil moisture in predicting bacterial wilt disease occurrence. Soil Ecology Letters, 2021, 3, 356-366.	4.5	19
14	Evaluation of the Stability of Bacteriophages in Different Solutions Suitable for the Production of Magistral Preparations in Belgium. Viruses, 2021, 13, 865.	3.3	34
15	Rapid evolution of bacterial mutualism in the plant rhizosphere. Nature Communications, 2021, 12, 3829.	12.8	51
16	Compositional and functional succession of bacterial and fungal communities is associated with changes in abiotic properties during pig manure composting. Waste Management, 2021, 131, 350-358.	7.4	30
17	Airborne and indigenous microbiomes coâ€drive the rebound of antibiotic resistome during compost storage. Environmental Microbiology, 2021, 23, 7483-7496.	3.8	10
18	Extended Plant Metarhizobiome: Understanding Volatile Organic Compound Signaling in Plant-Microbe Metapopulation Networks. MSystems, 2021, 6, e0084921.	3.8	22

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19	Genetic variation is associated with differences in facilitative and competitive interactions in the Rhizobium leguminosarum species complex. Environmental Microbiology, 2021, , .	3.8	9
20	Seeing the forest for the trees: Use of phages to treat bacterial tree diseases. Plant Pathology, 2021, 70, 1987-2004.	2.4	7
21	Introduction of probiotic bacterial consortia promotes plant growth via impacts on the resident rhizosphere microbiome. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211396.	2.6	29
22	Functional diversity increases the efficacy of phage combinations. Microbiology (United Kingdom), 2021, 167, .	1.8	8
23	The effect of microbial inoculant origin on the rhizosphere bacterial community composition and plant growth-promotion. Plant and Soil, 2020, 452, 105-117.	3.7	44
24	Competition for iron drives phytopathogen control by natural rhizosphere microbiomes. Nature Microbiology, 2020, 5, 1002-1010.	13.3	260
25	Siderophore-Mediated Interactions Determine the Disease Suppressiveness of Microbial Consortia. MSystems, 2020, 5, .	3.8	37
26	Chemical structure predicts the effect of plantâ€derived lowâ€molecular weight compounds on soil microbiome structure and pathogen suppression. Functional Ecology, 2020, 34, 2158-2169.	3.6	34
27	Bacterial community richness shifts the balance between volatile organic compound-mediated microbeâ€“pathogen and microbeâ€“plant interactions. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200403.	2.6	27
28	A methodological framework to embrace soil biodiversity. Soil Biology and Biochemistry, 2019, 136, 107536.	8.8	88
29	Efficient reduction of antibiotic residues and associated resistance genes in tylosin antibiotic fermentation waste using hyperthermophilic composting. Environment International, 2019, 133, 105203.	10.0	82
30	Initial soil microbiome composition and functioning predetermine future plant health. Science Advances, 2019, 5, eaaw0759.	10.3	314
31	Carbon resource richness shapes bacterial competitive interactions by alleviating growthâ€antibiosis tradeâ€off. Functional Ecology, 2019, 33, 868-875.	3.6	27
32	Coping with multiple enemies: pairwise interactions do not predict evolutionary change in complex multitrophic communities. Oikos, 2019, 128, 1588-1599.	2.7	16
33	Resistance Evolution against Phage Combinations Depends on the Timing and Order of Exposure. MBio, 2019, 10, .	4.1	90
34	Phage combination therapies for bacterial wilt disease in tomato. Nature Biotechnology, 2019, 37, 1513-1520.	17.5	164
35	Facilitation promotes invasions in plantâ€associated microbial communities. Ecology Letters, 2019, 22, 149-158.	6.4	100
36	Horizontal gene transfer and shifts in linked bacterial community composition are associated with maintenance of antibiotic resistance genes during food waste composting. Science of the Total Environment, 2019, 660, 841-850.	8.0	99

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37	Nocardioides astragali sp. nov., isolatedÂfromÂa nodule of wild Astragalus chrysopterus in northwestern China. Antonie Van Leeuwenhoek, 2018, 111, 1157-1163.	1.7	4
38	Mesorhizobium zhangyense sp. nov., isolated from wild Thermopsis lanceolate in northwestern China. Archives of Microbiology, 2018, 200, 603-610.	2.2	11
39	Long-term fertilization regimes drive the abundance and composition of N-cycling-related prokaryotic groups via soil particle-size differentiation. Soil Biology and Biochemistry, 2018, 116, 213-223.	8.8	52
40	Hyperthermophilic Composting Accelerates the Removal of Antibiotic Resistance Genes and Mobile Genetic Elements in Sewage Sludge. Environmental Science & Technology, 2018, 52, 266-276.	10.0	321
41	Resource stoichiometry shapes community invasion resistance via productivity-mediated species identity effects. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20182035.	2.6	10
42	Cross-resistance is modular in bacteriaâ€“phage interactions. PLoS Biology, 2018, 16, e2006057.	5.6	84
43	The Antimicrobial Activity of a Carbon Monoxide Releasing Molecule (EBOR-CORM-1) Is Shaped by Intraspecific Variation within Pseudomonas aeruginosa Populations. Frontiers in Microbiology, 2018, 9, 195.	3.5	30
44	Rapid evolution of generalized resistance mechanisms can constrain the efficacy of phageâ€“antibiotic treatments. Evolutionary Applications, 2018, 11, 1630-1641.	3.1	32
45	Organic amendments increase crop yields by improving microbe-mediated soil functioning of agroecosystems: A meta-analysis. Soil Biology and Biochemistry, 2018, 124, 105-115.	8.8	251
46	Ralstonia solanacearum pathogen disrupts bacterial rhizosphere microbiome during an invasion. Soil Biology and Biochemistry, 2018, 118, 8-17.	8.8	120
47	Seasonal variation in the biocontrol efficiency of bacterial wilt is driven by temperatureâ€mediated changes in bacterial competitive interactions. Journal of Applied Ecology, 2017, 54, 1440-1448.	4.0	27
48	Resource availability modulates biodiversityâ€invasion relationships by altering competitive interactions. Environmental Microbiology, 2017, 19, 2984-2991.	3.8	61
49	Probiotic Pseudomonas communities enhance plant growth and nutrient assimilation via diversity-mediated ecosystem functioning. Soil Biology and Biochemistry, 2017, 113, 122-129.	8.8	77
50	Bacterial cellâ€toâ€cell signaling promotes the evolution of resistance to parasitic bacteriophages. Ecology and Evolution, 2017, 7, 1936-1941.	1.9	21
51	Application of biochar reduces Ralstonia solanacearum infection via effects on pathogen chemotaxis, swarming motility, and root exudate adsorption. Plant and Soil, 2017, 415, 269-281.	3.7	68
52	Parasites and competitors suppress bacterial pathogen synergistically due to evolutionary trade-offs. Evolution; International Journal of Organic Evolution, 2017, 71, 733-746.	2.3	41
53	Devosia nitraria sp. nov., a novel species isolated from the roots of Nitraria sibirica in China. Antonie Van Leeuwenhoek, 2017, 110, 1475-1483.	1.7	17
54	Bacterial competition and quorumâ€sensing signalling shape the ecoâ€evolutionary outcomes of model in vitro phage therapy. Evolutionary Applications, 2017, 10, 161-169.	3.1	31

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55	Application of bacteriophages. Microbiology Australia, 2017, 38, 63.	0.4	18
56	Probiotic Diversity Enhances Rhizosphere Microbiome Function and Plant Disease Suppression. MBio, 2016, 7, .	4.1	264
57	Pathogen invasion indirectly changes the composition of soil microbiome via shifts in root exudation profile. Biology and Fertility of Soils, 2016, 52, 997-1005.	4.3	98
58	Preâ€adapting parasitic phages to a pathogen leads to increased pathogen clearance and lowered resistance evolution with Pseudomonas aeruginosa cystic fibrosis bacterial isolates. Journal of Evolutionary Biology, 2016, 29, 188-198.	1.7	83
59	Human migration activities drive the fluctuation of ARGs: Case study of landfills in Nanjing, eastern China. Journal of Hazardous Materials, 2016, 315, 93-101.	12.4	39
60	Relative importance of evolutionary dynamics depends on the composition of microbial predatorâ€“prey community. ISME Journal, 2016, 10, 1352-1362.	9.8	23
61	Altering Transplantation Time to Avoid Periods of High Temperature Can Efficiently Reduce Bacterial Wilt Disease Incidence with Tomato. PLoS ONE, 2015, 10, e0139313.	2.5	26
62	Bacterial adaptation to sublethal antibiotic gradients can change the ecological properties of multitrophic microbial communities. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142920.	2.6	26
63	Trophic network architecture of root-associated bacterial communities determines pathogen invasion and plant health. Nature Communications, 2015, 6, 8413.	12.8	384
64	Phages can constrain protist predation-driven attenuation of Pseudomonas aeruginosa virulence in multienemy communities. ISME Journal, 2014, 8, 1820-1830.	9.8	31
65	Rapid prey evolution can alter the structure of predatorâ€“prey communities. Journal of Evolutionary Biology, 2014, 27, 374-380.	1.7	32
66	FLUCTUATING TEMPERATURE LEADS TO EVOLUTION OF THERMAL GENERALISM AND PREADAPTATION TO NOVEL ENVIRONMENTS. Evolution; International Journal of Organic Evolution, 2013, 67, n/a-n/a.	2.3	78
67	Life in cells, hosts, and vectors: Parasite evolution across scales. Infection, Genetics and Evolution, 2013, 13, 344-347.	2.3	6
68	Effects of predation on realâ€time hostâ€“parasite coevolutionary dynamics. Ecology Letters, 2013, 16, 39-46.	6.4	82
69	Pseudomonas aeruginosa Adaptation to Lungs of Cystic Fibrosis Patients Leads to Lowered Resistance to Phage and Protist Enemies. PLoS ONE, 2013, 8, e75380.	2.5	36
70	Protist predation can favour cooperation within bacterial species. Biology Letters, 2013, 9, 20130548.	2.3	49
71	Effects of Sequential and Simultaneous Applications of Bacteriophages on Populations of Pseudomonas aeruginosa In Vitro and in Wax Moth Larvae. Applied and Environmental Microbiology, 2012, 78, 5646-5652.	3.1	139
72	Predation and resource fluctuations drive eco-evolutionary dynamics of a bacterial community. Acta Oecologica, 2012, 38, 77-83.	1.1	17

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73	Interactive effects between diet and genotypes of host and pathogen define the severity of infection. Ecology and Evolution, 2012, 2, 2347-2356.	1.9	15
74	Life History Trade-Offs and Relaxed Selection Can Decrease Bacterial Virulence in Environmental Reservoirs. PLoS ONE, 2012, 7, e43801.	2.5	48
75	High Temperature and Bacteriophages Can Indirectly Select for Bacterial Pathogenicity in Environmental Reservoirs. PLoS ONE, 2011, 6, e17651.	2.5	61
76	Pulsed-Resource Dynamics Constrain the Evolution of Predator-Prey Interactions. American Naturalist, 2011, 177, 334-345.	2.1	28
77	Pulsed-resource dynamics increase the asymmetry of antagonistic coevolution between a predatory protist and a prey bacterium. Journal of Evolutionary Biology, 2011, 24, 2563-2573.	1.7	21
78	Bacteriophage selection against a plasmid-encoded sex apparatus leads to the loss of antibiotic-resistance plasmids. Biology Letters, 2011, 7, 902-905.	2.3	69
79	Predation on Multiple Trophic Levels Shapes the Evolution of Pathogen Virulence. PLoS ONE, 2009, 4, e6761.	2.5	69
80	Availability of prey resources drives evolution of predatorâ€“prey interaction. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1625-1633.	2.6	65