Kos T KovÃ¡cs

List of Publications by Year
in descending order

112	4,734	35	59
papers	citations	h-index	g-index
		100698	124976

169	169	169	5655
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plant cell wall component induced bacterial development. Trends in Microbiology, 2024, 32, 1-3.	7.7	0
2	How to identify and quantify the members of the <scp><i>Bacillus</i></scp> genus?. Environmental Microbiology, 2024, 26, .	3.8	0
3	<i>Bacillus subtilis</i> promotes plant phosphorus (P) acquisition through P solubilization and stimulation of root and root hair growth. Physiologia Plantarum, 2024, 176, .	5.3	0
4	Enhanced surface colonisation and competition during bacterial adaptation to a fungus. Nature Communications, 2024, 15, .	13.0	1
5	Disentangling the factors defining <i>Bacillus subtilis</i> group species abundance in natural soils. Environmental Microbiology, 2024, 26, .	3.8	0
6	Frenemies of the soil: Bacillus and Pseudomonas interspecies interactions. Trends in Microbiology, 2023, 31, 845-857.	7.7	19
7	Phenotypic plasticity: The role of a phosphatase family Rap in the genetic regulation of<i>Bacilli</i>. Molecular Microbiology, 2023, 120, 20-31.	2.5	4
8	Establishment of a transparent soil system to study <i>Bacillus subtilis</i> chemical ecology. ISME Communications, 2023, 3, .	4.2	4
9	Diversification during cross-kingdom microbial experimental evolution. ISME Journal, 2023, 17, 1355-1357.	9.9	2
10	Species and condition shape the mutational spectrum in experimentally evolved biofilms. MSystems, 2023, 8, .	4.0	3
11	Colony morphotype diversification as a signature of bacterial evolution. MicroLife, 2023, 4, .	2.4	1
12	Metabolic interactions affect the biomass of synthetic bacterial biofilm communities. MSystems, 2023, 8, .	4.0	3
13	Enhanced specificity of <i>Bacillus</i> metataxonomics using a <i>tuf</i>-targeted amplicon sequencing approach. ISME Communications, 2023, 3, .	4.2	2
14	<i>Bacillus velezensis</i> stimulates resident rhizosphere <i>Pseudomonas stutzeri</i> for plant health through metabolic interactions. ISME Journal, 2022, 16, 774-787.	9.9	170
15	Quantitative High-Throughput Screening Methods Designed for Identification of Bacterial Biocontrol Strains with Antifungal Properties. Microbiology Spectrum, 2022, 10, e0143321.	3.0	9
16	Bacillus cereus sensu lato biofilm formation and its ecological importance. Biofilm, 2022, 4, 100070.	3.8	27
17	Adaptation and phenotypic diversification of Bacillus thuringiensis biofilm are accompanied by fuzzy spreader morphotypes. Npj Biofilms and Microbiomes, 2022, 8, 27.	6.4	6
18	Experimental evolution of Bacillus subtilis on Arabidopsis thaliana roots reveals fast adaptation and improved root colonization. IScience, 2022, 25, 104406.	4.1	25

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19	Physiological and transcriptional profiling of surfactin exerted antifungal effect against Candida albicans. Biomedicine and Pharmacotherapy, 2022, 152, 113220.	5.8	9
20	Complex extracellular biology drives surface competition during colony expansion in <i>Bacillus subtilis</i>. ISME Journal, 2022, 16, 2320-2328.	9.9	22
21	Molecular Aspects of Plant Growth Promotion and Protection by<i>Bacillus subtilis</i>. Molecular Plant-Microbe Interactions, 2021, 34, 15-25.	2.8	174
22	Pervasive prophage recombination occurs during evolution of spore-forming <i>Bacilli</i>. ISME Journal, 2021, 15, 1344-1358.	9.9	30
23	A circadian clock in a nonphotosynthetic prokaryote. Science Advances, 2021, 7, .	10.8	65
24	Quantitative image analysis of microbial communities with BiofilmQ. Nature Microbiology, 2021, 6, 151-156.	12.9	197
25	Genomic and Chemical Diversity of Bacillus subtilis Secondary Metabolites against Plant Pathogenic Fungi. MSystems, 2021, 6, .	4.0	66
26	Impact of Rap-Phr system abundance on adaptation of Bacillus subtilis. Communications Biology, 2021, 4, 468.	4.5	19
27	Phylogenetic Distribution of Secondary Metabolites in the Bacillus subtilis Species Complex. MSystems, 2021, 6, .	4.0	48
28	Bacillus subtilis biofilm formation and social interactions. Nature Reviews Microbiology, 2021, 19, 600-614.	28.9	255
29	Biofilm Dispersal for Spore Release in Bacillus subtilis. Journal of Bacteriology, 2021, 203, e0019221.	2.4	3
30	Deletion of Rapâ€Phr systems in <i>Bacillus subtilis</i> influences in vitro biofilm formation and plant root colonization. MicrobiologyOpen, 2021, 10, e1212.	3.1	13
31	Origin of micrometer-scale propagation lengths of heat-carrying acoustic excitations in amorphous silicon. Physical Review Materials, 2021, 5, .	2.5	14
32	Experimental evidence of plastic particles transfer at the water-air interface through bubble bursting. Environmental Pollution, 2021, 280, 116949.	7.6	37
33	Transcriptome Response to Cadmium Exposure in Barley (Hordeum vulgare L.). Frontiers in Plant Science, 2021, 12, 629089.	3.7	22
34	Phages carry interbacterial weapons encoded by biosynthetic gene clusters. Current Biology, 2021, 31, 3479-3489.e5.	4.0	33
35	Diversification of <scp><i>Bacillus subtilis</i></scp> during experimental evolution on <i><scp>A</scp>rabidopsis <scp>thaliana</scp></i> and the complementarity in root colonization of evolved subpopulations. Environmental Microbiology, 2021, 23, 6122-6136.	3.8	28
36	Die Auswirkungen der staatlichen Anerkennung von ATA und OTA. Intensiv, 2021, 29, 247-253.	0.0	0

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37	Adaptation of Bacillus thuringiensis to Plant Colonization Affects Differentiation and Toxicity. MSystems, 2021, 6, e0086421.	4.0	18
38	Complete Genome Sequences of Four Soil-Derived Isolates for Studying Synthetic Bacterial Community Assembly. Microbiology Resource Announcements, 2021, 10, e0084821.	1.1	7
39	Metal ions weaken the hydrophobicity and antibiotic resistance of Bacillus subtilis NCIB 3610 biofilms. Npj Biofilms and Microbiomes, 2020, 6, 1.	6.4	84
40	Privatization of Biofilm Matrix in Structurally Heterogeneous Biofilms. MSystems, 2020, 5, .	4.0	29
41	Cheaters shape the evolution of phenotypic heterogeneity in <i>Bacillus subtilis</i> biofilms. ISME Journal, 2020, 14, 2302-2312.	9.9	28
42	Differential equation-based minimal model describing metabolic oscillations in <i>Bacillus subtilis</i> biofilms. Royal Society Open Science, 2020, 7, 190810.	2.5	9
43	Complete Genome Sequences of 13 Bacillus subtilis Soil Isolates for Studying Secondary Metabolite Diversity. Microbiology Resource Announcements, 2020, 9, .	1.1	13
44	Surfactin production is not essential for pellicle and root-associated biofilm development of Bacillus subtilis. Biofilm, 2020, 2, 100021.	3.8	36
45	Modelling population dynamics in a unicellular social organism community using a minimal model and evolutionary game theory. Open Biology, 2020, 10, 200206.	3.7	12
46	Secondary metabolites of <i>Bacillus subtilis</i> impact the assembly of soil-derived semisynthetic bacterial communities. Beilstein Journal of Organic Chemistry, 2020, 16, 2983-2998.	2.3	23
47	Semiautomated glycoproteomics data analysis workflow for maximized glycopeptide identification and reliable quantification. Beilstein Journal of Organic Chemistry, 2020, 16, 3038-3051.	2.3	7
48	Biofilm: Introducing a new journal for the broad biofilm field. Biofilm, 2019, 1, 100003.	3.8	0
49	Depiction of secondary metabolites and antifungal activity of Bacillus velezensis DTU001. Synthetic and Systems Biotechnology, 2019, 4, 142-149.	4.0	51
50	Are There Circadian Clocks in Non-Photosynthetic Bacteria?. Biology, 2019, 8, 41.	2.9	27
51	The Ectomycorrhizospheric Habitat of Norway Spruce and Tricholoma vaccinum: Promotion of Plant Growth and Fitness by a Rich Microorganismic Community. Frontiers in Microbiology, 2019, 10, 307.	3.5	20
52	Evolved Biofilm: Review on the Experimental Evolution Studies of Bacillus subtilis Pellicles. Journal of Molecular Biology, 2019, 431, 4749-4759.	4.3	60
53	Fungal hyphae colonization by Bacillus subtilis relies on biofilm matrix components. Biofilm, 2019, 1, 100007.	3.8	30
54	Evolution of exploitative interactions during diversification in Bacillus subtilis biofilms. FEMS Microbiology Ecology, 2018, 94, .	2.8	37

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55	Impaired competence in flagellar mutants of <i>Bacillus subtilis</i> is connected to the regulatory network governed by DegU. Environmental Microbiology Reports, 2018, 10, 23-32.	2.6	11
56	Collapse of genetic division of labour and evolution of autonomy in pellicle biofilms. Nature Microbiology, 2018, 3, 1451-1460.	12.9	54
57	Hampered motility promotes the evolution of wrinkly phenotype in Bacillus subtilis. BMC Evolutionary Biology, 2018, 18, 155.	3.1	17
58	Effect of Novel Quercetin Titanium Dioxide-Decorated Multi-Walled Carbon Nanotubes Nanocomposite on Bacillus subtilis Biofilm Development. Materials, 2018, 11, 157.	3.0	12
59	Division of Labor during Biofilm Matrix Production. Current Biology, 2018, 28, 1903-1913.e5.	4.0	211
60	Dissimilar pigment regulation in Serpula lacrymans and Paxillus involutus during inter-kingdom interactions. Microbiology (United Kingdom), 2018, 164, 65-77.	1.7	25
61	The Peculiar Functions of the Bacterial Extracellular Matrix. Trends in Microbiology, 2017, 25, 257-266.	7.7	191
62	De novo evolved interference competition promotes the spread of biofilm defectors. Nature Communications, 2017, 8, 15127.	13.0	64
63	Lysinibacillus fusiformis M5 Induces Increased Complexity in Bacillus subtilis 168 Colony Biofilms via Hypoxanthine. Journal of Bacteriology, 2017, 199, .	2.4	18
64	Sliding on the surface: bacterial spreading without an active motor. Environmental Microbiology, 2017, 19, 2537-2545.	3.8	78
65	Surfing of bacterial droplets: <i>Bacillus subtilis</i> sliding revisited. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8802.	7.5	12
66	Structural damage of Bacillus subtilis biofilms using pulsed laser interaction with gold thin films. Journal of Biophotonics, 2017, 10, 1043-1052.	2.4	1
67	Application of quercetin and its bio-inspired nanoparticles as anti-adhesive agents against Bacillus subtilis attachment to surface. Materials Science and Engineering C, 2017, 70, 753-762.	7.5	20
68	YsbA and LytST are essential for pyruvate utilization in <i>Bacillus subtilis</i>. Environmental Microbiology, 2017, 19, 83-94.	3.8	33
69	From Cell Death to Metabolism: Holin-Antiholin Homologues with New Functions. MBio, 2017, 8, .	4.3	24
70	Presence of Calcium Lowers the Expansion of Bacillus subtilis Colony Biofilms. Microorganisms, 2017, 5, 7.	3.6	34
71	The Role of Functional Amyloids in Multicellular Growth and Development of Gram-Positive Bacteria. Biomolecules, 2017, 7, 60.	4.1	29
72	Draft Genome Sequence of the Soil Isolate Lysinibacillus fusiformis M5, a Potential Hypoxanthine Producer. Genome Announcements, 2016, 4, .	0.8	6

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73	The global regulator CodY is required for the fitness of<i>Bacillus cereus</i>in various laboratory media and certain beverages. FEMS Microbiology Letters, 2016, 363, fnw126.	1.8	4
74	Laboratory Evolution of Microbial Interactions in Bacterial Biofilms. Journal of Bacteriology, 2016, 198, 2564-2571.	2.4	73
75	Unraveling the predator-prey relationship of Cupriavidus necator and Bacillus subtilis. Microbiological Research, 2016, 192, 231-238.	5.4	22
76	Biochemical recurrence-free survival and pathological outcomes after radical prostatectomy for high-risk prostate cancer. BMC Urology, 2016, 16, 26.	1.5	24
77	Intratumoral hemorrhage-related differences in the expression of vascular endothelial growth factor, basic fibroblast growth factor and thioredoxin reductase 1 in human glioblastoma. Molecular and Clinical Oncology, 2016, 5, 343-346.	1.1	11
78	The Arteriovenous (AV) Loop in a Small Animal Model to Study Angiogenesis and Vascularized Tissue Engineering. Journal of Visualized Experiments, 2016, , .	0.3	19
79	Bacterial differentiation via gradual activation of global regulators. Current Genetics, 2016, 62, 125-128.	1.8	42
80	Role of the semi-conserved histidine residue in the light-sensing domain of LitR, a MerR-type photosensory transcriptional regulator. Microbiology (United Kingdom), 2016, 162, 1500-1509.	1.7	5
81	Specific Bacillus subtilis 168 variants form biofilms on nutrient-rich medium. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlo	1.7	67
82	Single Cell FRET Analysis for the Identification of Optimal FRET-Pairs in Bacillus subtilis Using a Prototype MEM-FLIM System. PLoS ONE, 2015, 10, e0123239.	2.5	12
83	Pondering Mating: Pneumocystis jirovecii, the Human Lung Pathogen, Selfs without Mating Type Switching, in Contrast to Its Close Relative Schizosaccharomyces pombe. MBio, 2015, 6, e00583-15.	4.3	6
84	Spatio-temporal Remodeling of Functional Membrane Microdomains Organizes the Signaling Networks of a Bacterium. PLoS Genetics, 2015, 11, e1005140.	3.3	39
85	Motility, Chemotaxis and Aerotaxis Contribute to Competitiveness during Bacterial Pellicle Biofilm Development. Journal of Molecular Biology, 2015, 427, 3695-3708.	4.3	131
86	Einblicke in das Sozialleben von Mikroben. BioSpektrum, 2015, 21, 264-266.	0.1	0
87	NS5A Domain 1 and Polyprotein Cleavage Kinetics Are Critical for Induction of Double-Membrane Vesicles Associated with Hepatitis C Virus Replication. MBio, 2015, 6, e00759.	4.3	77
88	<scp><i>B</i></scp><i>acillus subtilis</i> attachment to <scp><i>A</i></scp><i>spergillus niger</i> hyphae results in mutually altered metabolism. Environmental Microbiology, 2015, 17, 2099-2113.	3.8	116
89	Repeated triggering of sporulation in <i>Bacillus subtilis</i> selects against a protein that affects the timing of cell division. ISME Journal, 2014, 8, 77-87.	9.9	16
90	Comparative genomics and transcriptomics analysis of experimentally evolved <i><scp>E</scp>scherichia coli</i>â€…<scp>MC</scp>1000 in complex environments. Environmental Microbiology, 2014, 16, 856-870.	3.8	13

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91	From environmental signals to regulators: Modulation of biofilm development in Gramâ€positive bacteria. Journal of Basic Microbiology, 2014, 54, 616-632.	3.6	55
92	In Bacillus subtilis LutR is part of the global complex regulatory network governing the adaptation to the transition from exponential growth to stationary phase. Microbiology (United Kingdom), 2014, 160, 243-260.	1.7	15
93	Density of founder cells affects spatial pattern formation and cooperation in <i>Bacillus subtilis</i> biofilms. ISME Journal, 2014, 8, 2069-2079.	9.9	236
94	DEAD-Box RNA Helicases in Bacillus subtilis Have Multiple Functions and Act Independently from Each Other. Journal of Bacteriology, 2013, 195, 534-544.	2.4	70
95	Benchmarking Various Green Fluorescent Protein Variants in Bacillus subtilis, Streptococcus pneumoniae, and Lactococcus lactis for Live Cell Imaging. Applied and Environmental Microbiology, 2013, 79, 6481-6490.	3.2	111
96	Functional Analysis of the ComK Protein of Bacillus coagulans. PLoS ONE, 2013, 8, e53471.	2.5	8
97	CodY, a pleiotropic regulator, influences multicellular behaviour and efficient production of virulence factors in <i>Bacillus cereus</i>. Environmental Microbiology, 2012, 14, 2233-2246.	3.8	89
98	The protective layer of biofilm: a repellent function for a new class of amphiphilic proteins. Molecular Microbiology, 2012, 85, 8-11.	2.5	40
99	Crystal Structures of Two Transcriptional Regulators from Bacillus cereus Define the Conserved Structural Features of a PadR Subfamily. PLoS ONE, 2012, 7, e48015.	2.5	42
100	Distinct Roles of ComK1 and ComK2 in Gene Regulation in Bacillus cereus. PLoS ONE, 2011, 6, e21859.	2.5	6
101	Biofilm formation and dispersal in Gram-positive bacteria. Current Opinion in Biotechnology, 2011, 22, 172-179.	6.8	250
102	Transcriptional Responses of Bacillus cereus towards Challenges with the Polysaccharide Chitosan. PLoS ONE, 2011, 6, e24304.	2.5	12
103	Response of Bacillus cereus ATCC 14579 to challenges with sublethal concentrations of enterocin AS-48. BMC Microbiology, 2009, 9, 227.	3.3	22
104	Ubiquitous late competence genes in <i>Bacillus</i> species indicate the presence of functional DNA uptake machineries. Environmental Microbiology, 2009, 11, 1911-1922.	3.8	61
105	Induction of natural competence in <i>Bacillus cereus</i> ATCC14579. Microbial Biotechnology, 2008, 1, 226-235.	4.2	40
106	The PpsR regulator family. Research in Microbiology, 2005, 156, 619-625.	2.2	24
107	Improvement of biohydrogen production and intensification of biogas formation. Reviews in Environmental Science and Biotechnology, 2004, 3, 321-330.	8.1	18
108	Genes Involved in the Biosynthesis of Photosynthetic Pigments in the Purple Sulfur Photosynthetic Bacterium Thiocapsa roseopersicina. Applied and Environmental Microbiology, 2003, 69, 3093-3102.	3.2	39

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109	Hydrogenases, accessory genes and the regulation of 6NiFe9 hydrogenase biosynthesis in Thiocapsa roseopersicina. International Journal of Hydrogen Energy, 2002, 27, 1463-1469.	7.1	27
110	The magnetic field and magnetic gradient tensor for a right circular cylinder. Exploration Geophysics, 0, , 1-30.	1.1	0
111	Rhythmic Spatial Self-Organization of Bacterial Colonies. MBio, 0, , .	4.3	0
112	Taxonomy of <i>Pseudomonas</i> spp. determines interactions with <i>Bacillus subtilis</i>. MSystems, 0, , .	4.0	0