Kos T KovÃ¡cs

List of Publications by Year
in descending order

116	4,672	113904	133910
papers	citations	34 h-index	59 g-index

174	174	174	5728
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>Bacillus</scp> genus?. Environmental Microbiology, 2024, 26, .	3.9	0
3	Bacillus subtilis promotes plant phosphorus (P) acquisition through P solubilization and stimulation of root and root hair growth. Physiologia Plantarum, 2024, 176, .	5.3	0
4	Resistance towards and biotransformation of a Pseudomonas-produced secondary metabolite during community invasion. ISME Journal, 2024, 18, .	10.0	1
5	MAPPING OF LAND COVERAGE IN THE DRY PERIOD IN THE SERTÃƒOS OF CEARENS USING MACHINE LEARNING TECHNIQUES / MAPEAMENTO DA COBERTURA DA TERRA NO PERÃODO SECO NOS SERTÃ•ES CEARENSES UTILIZANDO TÃ‰CNICAS DE APRENDIZADO DE MÃQUINA. William Morris Davis, 2024, 5, 16.	0.0	0
6	Enhanced surface colonisation and competition during bacterial adaptation to a fungus. Nature Communications, 2024, 15, .	13.2	1
7	Disentangling the factors defining Bacillus subtilis group species abundance in natural soils. Environmental Microbiology, 2024, 26, .	3.9	0
8	Predicting Threat Degree for Onset of Type 2 Diabetes Mellitus Based on Machine Learning Methods. Lecture Notes in Networks and Systems, 2023, , 770-779.	0.0	0
9	Frenemies of the soil: Bacillus and Pseudomonas interspecies interactions. Trends in Microbiology, 2023, 31, 845-857.	7.7	19
10	Phenotypic plasticity: The role of a phosphatase family Rap in the genetic regulation ofBacilli. Molecular Microbiology, 2023, 120, 20-31.	2.5	4
11	The circadian clock of the bacterium B. subtilis evokes properties of complex, multicellular circadian systems. Science Advances, 2023, 9, .	10.9	4
12	Establishment of a transparent soil system to study Bacillus subtilis chemical ecology. ISME Communications, 2023, 3, .	4.3	4
13	Diversification during cross-kingdom microbial experimental evolution. ISME Journal, 2023, 17, 1355-1357.	10.0	2
14	Species and condition shape the mutational spectrum in experimentally evolved biofilms. MSystems, 2023, 8, .	4.1	3
15	Colony morphotype diversification as a signature of bacterial evolution. MicroLife, 2023, 4, .	2.4	1
16	Metabolic interactions affect the biomass of synthetic bacterial biofilm communities. MSystems, 2023, 8, .	4.1	3
17	Enhanced specificity of Bacillus metataxonomics using a tuf-targeted amplicon sequencing approach. ISME Communications, 2023, 3, .	4.3	2
18	Bacillus velezensis stimulates resident rhizosphere Pseudomonas stutzeri for plant health through metabolic interactions. ISME Journal, 2022, 16, 774-787.	10.0	170

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19	Quantitative High-Throughput Screening Methods Designed for Identification of Bacterial Biocontrol Strains with Antifungal Properties. Microbiology Spectrum, 2022, 10, e0143321.	3.0	9
20	Bacillus cereus sensu lato biofilm formation and its ecological importance. Biofilm, 2022, 4, 100070.	3.9	27
21	Adaptation and phenotypic diversification of Bacillus thuringiensis biofilm are accompanied by fuzzy spreader morphotypes. Npj Biofilms and Microbiomes, 2022, 8, 27.	6.5	6
22	Physiological and transcriptional profiling of surfactin exerted antifungal effect against Candida albicans. Biomedicine and Pharmacotherapy, 2022, 152, 113220.	5.8	9
23	Complex extracellular biology drives surface competition during colony expansion in Bacillus subtilis. ISME Journal, 2022, 16, 2320-2328.	10.0	22
24	Summarizing Procedural Text: Data and Approach. , 2022, , .		0
25	Molecular Aspects of Plant Growth Promotion and Protection byBacillus subtilis. Molecular Plant-Microbe Interactions, 2021, 34, 15-25.	2.8	174
26	Pervasive prophage recombination occurs during evolution of spore-forming Bacilli. ISME Journal, 2021, 15, 1344-1358.	10.0	30
27	A circadian clock in a nonphotosynthetic prokaryote. Science Advances, 2021, 7, .	10.9	65
28	Quantitative image analysis of microbial communities with BiofilmQ. Nature Microbiology, 2021, 6, 151-156.	13.1	197
29	Genomic and Chemical Diversity of Bacillus subtilis Secondary Metabolites against Plant Pathogenic Fungi. MSystems, 2021, 6, .	4.1	66
30	Tibial component coverage affects tibial bone resorption and patient-reported outcome measures for patients following total knee arthroplasty. Journal of Orthopaedic Surgery and Research, 2021, 16, 134.	2.4	9
31	Impact of Rap-Phr system abundance on adaptation of Bacillus subtilis. Communications Biology, 2021, 4, 468.	4.5	19
32	Phylogenetic Distribution of Secondary Metabolites in the Bacillus subtilis Species Complex. MSystems, 2021, 6, .	4.1	48
33	Bacillus subtilis biofilm formation and social interactions. Nature Reviews Microbiology, 2021, 19, 600-614.	29.2	255
34	Biofilm Dispersal for Spore Release in Bacillus subtilis. Journal of Bacteriology, 2021, 203, e0019221.	2.4	3
35	Deletion of Rapâ€Phr systems in Bacillus subtilis influences in vitro biofilm formation and plant root colonization. MicrobiologyOpen, 2021, 10, e1212.	3.1	13
36	Phages carry interbacterial weapons encoded by biosynthetic gene clusters. Current Biology, 2021, 31, 3479-3489.e5.	4.0	33

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37	Diversification of <scp>Bacillus subtilis</scp> during experimental evolution on <scp>A</scp>rabidopsis <scp>thaliana</scp> and the complementarity in root colonization of evolved subpopulations. Environmental Microbiology, 2021, 23, 6122-6136.	3.9	28
38	Adaptation of Bacillus thuringiensis to Plant Colonization Affects Differentiation and Toxicity. MSystems, 2021, 6, e0086421.	4.1	18
39	Complete Genome Sequences of Four Soil-Derived Isolates for Studying Synthetic Bacterial Community Assembly. Microbiology Resource Announcements, 2021, 10, e0084821.	2.0	7
40	Metal ions weaken the hydrophobicity and antibiotic resistance of Bacillus subtilis NCIB 3610 biofilms. Npj Biofilms and Microbiomes, 2020, 6, 1.	6.5	84
41	Privatization of Biofilm Matrix in Structurally Heterogeneous Biofilms. MSystems, 2020, 5, .	4.1	29
42	Cheaters shape the evolution of phenotypic heterogeneity in Bacillus subtilis biofilms. ISME Journal, 2020, 14, 2302-2312.	10.0	28
43	Differential equation-based minimal model describing metabolic oscillations in Bacillus subtilis biofilms. Royal Society Open Science, 2020, 7, 190810.	2.5	9
44	Complete Genome Sequences of 13 Bacillus subtilis Soil Isolates for Studying Secondary Metabolite Diversity. Microbiology Resource Announcements, 2020, 9, .	2.0	13
45	Surfactin production is not essential for pellicle and root-associated biofilm development of Bacillus subtilis. Biofilm, 2020, 2, 100021.	3.9	36
46	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
47	Secondary metabolites of Bacillus subtilis impact the assembly of soil-derived semisynthetic bacterial communities. Beilstein Journal of Organic Chemistry, 2020, 16, 2983-2998.	2.4	23
48	Biofilm: Introducing a new journal for the broad biofilm field. Biofilm, 2019, 1, 100003.	3.9	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.	3.6	20
52	Tunable Metasurfaces: A Polarization Rotator Design. Physical Review X, 2019, 9, .	9.1	67
53	Evolved Biofilm: Review on the Experimental Evolution Studies of Bacillus subtilis Pellicles. Journal of Molecular Biology, 2019, 431, 4749-4759.	4.3	60
54	Novel Magnetic Compressing Technique for Severe Stenosis in Beagle Dogs: A Preliminary Experiment Study. Journal of the American College of Surgeons, 2019, 229, e247.	0.5	0

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55	Fungal hyphae colonization by Bacillus subtilis relies on biofilm matrix components. Biofilm, 2019, 1, 100007.	3.9	30
56	Evolution of exploitative interactions during diversification in Bacillus subtilis biofilms. FEMS Microbiology Ecology, 2018, 94, .	2.8	37
57	Impaired competence in flagellar mutants of Bacillus subtilis is connected to the regulatory network governed by DegU. Environmental Microbiology Reports, 2018, 10, 23-32.	2.6	11
58	Collapse of genetic division of labour and evolution of autonomy in pellicle biofilms. Nature Microbiology, 2018, 3, 1451-1460.	13.1	54
59	Hampered motility promotes the evolution of wrinkly phenotype in Bacillus subtilis. BMC Evolutionary Biology, 2018, 18, 155.	3.1	17
60	Effect of Novel Quercetin Titanium Dioxide-Decorated Multi-Walled Carbon Nanotubes Nanocomposite on Bacillus subtilis Biofilm Development. Materials, 2018, 11, 157.	3.0	12
61	Division of Labor during Biofilm Matrix Production. Current Biology, 2018, 28, 1903-1913.e5.	4.0	211
62	The Peculiar Functions of the Bacterial Extracellular Matrix. Trends in Microbiology, 2017, 25, 257-266.	7.7	191
63	De novo evolved interference competition promotes the spread of biofilm defectors. Nature Communications, 2017, 8, 15127.	13.2	64
64	Lysinibacillus fusiformis M5 Induces Increased Complexity in Bacillus subtilis 168 Colony Biofilms via Hypoxanthine. Journal of Bacteriology, 2017, 199, .	2.4	18
65	Sliding on the surface: bacterial spreading without an active motor. Environmental Microbiology, 2017, 19, 2537-2545.	3.9	78
66	Surfing of bacterial droplets: Bacillus subtilis sliding revisited. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8802.	7.6	12
67	Structural damage of Bacillus subtilis biofilms using pulsed laser interaction with gold thin films. Journal of Biophotonics, 2017, 10, 1043-1052.	2.4	1
68	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.	7.8	20
69	YsbA and LytST are essential for pyruvate utilization in Bacillus subtilis. Environmental Microbiology, 2017, 19, 83-94.	3.9	33
70	From Cell Death to Metabolism: Holin-Antiholin Homologues with New Functions. MBio, 2017, 8, .	4.4	24
71	Presence of Calcium Lowers the Expansion of Bacillus subtilis Colony Biofilms. Microorganisms, 2017, 5, 7.	3.6	34
72	The Role of Functional Amyloids in Multicellular Growth and Development of Gram-Positive Bacteria. Biomolecules, 2017, 7, 60.	4.2	29

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73	P153â€…Heightâ‰¥85 percentile with increased body mass index (BMI) is risk factor for cardio-vascular diseases heightâ‰¥85 percentile with increased body mass index (BMI) is risk factor for cardio-vascular diseases. Archives of Disease in Childhood, 2017, , .	2.8	2
74	Draft Genome Sequence of the Soil Isolate Lysinibacillus fusiformis M5, a Potential Hypoxanthine Producer. Genome Announcements, 2016, 4, .	0.8	6
75	The global regulator CodY is required for the fitness ofBacillus cereusin various laboratory media and certain beverages. FEMS Microbiology Letters, 2016, 363, fnw126.	1.8	4
76	Laboratory Evolution of Microbial Interactions in Bacterial Biofilms. Journal of Bacteriology, 2016, 198, 2564-2571.	2.4	73
77	Unraveling the predator-prey relationship of Cupriavidus necator and Bacillus subtilis. Microbiological Research, 2016, 192, 231-238.	5.4	22
78	Monitoring Spatial Segregation in Surface Colonizing Microbial Populations. Journal of Visualized Experiments, 2016, , .	0.3	17
79	Bacterial differentiation via gradual activation of global regulators. Current Genetics, 2016, 62, 125-128.	1.8	42
80	Poe in Cyberspace: Balloons! Drones!! The Global Internet!!!. Edgar Allan Poe Review, 2015, 16, 242.	0.0	14
81	Dust particle charge screening in the dry-air plasma produced by an external ionization source. Journal of Experimental and Theoretical Physics, 2015, 121, 340-354.	1.0	5
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	A Duo of Potassium-Responsive Histidine Kinases Govern the Multicellular Destiny of Bacillus subtilis. MBio, 2015, 6, e00581.	4.4	100
84	Spatio-temporal Remodeling of Functional Membrane Microdomains Organizes the Signaling Networks of a Bacterium. PLoS Genetics, 2015, 11, e1005140.	3.4	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	Nuclear magnetic resonance therapy in lumbar disc herniation with lumbar radicular syndrome: effects of the intervention on pain intensity, health-related quality of life, disease-related disability, consumption of pain medication, duration of sick leave and MRI analysis. European Spine Journal, 2015, 24, 1296-1308.	2.3	2
87	Anterior transoral atlantoaxial release and posterior instrumented fusion for irreducible congenital basilar invagination. European Spine Journal, 2015, 24, 2977-2985.	2.3	28
88	Leitlinien zur ErnÃhrung in der pÃdiatrischen Palliativmedizin. Padiatrie Und Padologie, 2015, 50, 4-24.	0.4	1
89	Einblicke in das Sozialleben von Mikroben. BioSpektrum, 2015, 21, 264-266.	0.1	0
90	<scp>B</scp>acillus subtilis attachment to <scp>A</scp>spergillus niger hyphae results in mutually altered metabolism. Environmental Microbiology, 2015, 17, 2099-2113.	3.9	116

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91	Repeated triggering of sporulation in Bacillus subtilis selects against a protein that affects the timing of cell division. ISME Journal, 2014, 8, 77-87.	10.0	16
92	Comparative genomics and transcriptomics analysis of experimentally evolved <scp>E</scp>scherichia coliâ€...<scp>MC</scp>1000 in complex environments. Environmental Microbiology, 2014, 16, 856-870.	3.9	13
93	From environmental signals to regulators: Modulation of biofilm development in Gramâ€positive bacteria. Journal of Basic Microbiology, 2014, 54, 616-632.	3.6	55
94	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.	1.8	15
95	Density of founder cells affects spatial pattern formation and cooperation in Bacillus subtilis biofilms. ISME Journal, 2014, 8, 2069-2079.	10.0	236
96	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
97	Clinical characteristics of ventricular fibrillation occurrence in the early phase of acute myocardial infarction between patients with and without early repolarization. European Heart Journal, 2013, 34, P4935-P4935.	2.3	0
98	More on divergences in brane world models. Physical Review D, 2013, 87, .	4.8	1
99	Silicon Nanowire Arrays â€“ A New Catalyst for the Reduction of Nitrobenzene Derivatives. ChemCatChem, 2013, 5, 3788-3793.	3.8	12
100	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
101	Functional Analysis of the ComK Protein of Bacillus coagulans. PLoS ONE, 2013, 8, e53471.	2.5	8
102	CodY, a pleiotropic regulator, influences multicellular behaviour and efficient production of virulence factors in Bacillus cereus. Environmental Microbiology, 2012, 14, 2233-2246.	3.9	89
103	The protective layer of biofilm: a repellent function for a new class of amphiphilic proteins. Molecular Microbiology, 2012, 85, 8-11.	2.5	40
104	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
105	Distinct Roles of ComK1 and ComK2 in Gene Regulation in Bacillus cereus. PLoS ONE, 2011, 6, e21859.	2.5	6
106	Biofilm formation and dispersal in Gram-positive bacteria. Current Opinion in Biotechnology, 2011, 22, 172-179.	6.8	250
107	Transcriptional Responses of Bacillus cereus towards Challenges with the Polysaccharide Chitosan. PLoS ONE, 2011, 6, e24304.	2.5	12
108	Response of Bacillus cereus ATCC 14579 to challenges with sublethal concentrations of enterocin AS-48. BMC Microbiology, 2009, 9, 227.	3.4	22

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109	Ubiquitous late competence genes in Bacillus species indicate the presence of functional DNA uptake machineries. Environmental Microbiology, 2009, 11, 1911-1922.	3.9	61
110	Induction of natural competence in Bacillus cereus ATCC14579. Microbial Biotechnology, 2008, 1, 226-235.	4.3	40
111	The PpsR regulator family. Research in Microbiology, 2005, 156, 619-625.	2.2	24
112	Improvement of biohydrogen production and intensification of biogas formation. Reviews in Environmental Science and Biotechnology, 2004, 3, 321-330.	8.2	18
113	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
114	Hydrogenases, accessory genes and the regulation of 6NiFe9 hydrogenase biosynthesis in Thiocapsa roseopersicina. International Journal of Hydrogen Energy, 2002, 27, 1463-1469.	7.2	27
115	Rhythmic Spatial Self-Organization of Bacterial Colonies. MBio, 0, , .	4.4	0
116	Taxonomy of Pseudomonas spp. determines interactions with Bacillus subtilis. MSystems, 0, , .	4.1	0