

Dieter Spiteller

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,128
citations

471509

17
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

1501
citing authors

#	ARTICLE	IF	CITATIONS
1	Candidin-producing <i>Streptomyces</i> support leaf-cutting ants to protect their fungus garden against the pathogenic fungus <i>Escovopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4742-4746.	7.1	256
2	Chemical basis of the synergism and antagonism in microbial communities in the nests of leaf-cutting ants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1955-1960.	7.1	167
3	Sulphoglycolysis in <i>Escherichia coli</i> K-12 closes a gap in the biogeochemical sulphur cycle. Nature, 2014, 507, 114-117.	27.8	105
4	Genome mining of <i>Streptomyces ambofaciens</i> . Journal of Industrial Microbiology and Biotechnology, 2014, 41, 251-263.	3.0	85
5	Entner-Doudoroff pathway for sulfoquinovose degradation in <i>Pseudomonas putida</i> SQ1. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4298-305.	7.1	69
6	Anaerobic Degradation of the Plant Sugar Sulfoquinovose Concomitant With H ₂ S Production: <i>Escherichia coli</i> K-12 and <i>Desulfovibrio</i> sp. Strain DF1 as Co-culture Model. Frontiers in Microbiology, 2018, 9, 2792.	3.5	49
7	Secondary Metabolites from <i>Escovopsis weberi</i> and Their Role in Attacking the Garden Fungus of Leaf-Cutting Ants. Chemistry - A European Journal, 2018, 24, 4445-4452.	3.3	46
8	Anaerobic degradation of xenobiotic isophthalate by the fermenting bacterium <i>Syntrophorhabdus aromaticivorans</i> . ISME Journal, 2019, 13, 1252-1268.	9.8	43
9	Enzymes involved in the anaerobic degradation of ortho-phthalate by the nitrate-reducing bacterium <i>Azoarcus</i> sp. strain PA01. Environmental Microbiology, 2016, 18, 3175-3188.	3.8	42
10	Environmental and Intestinal Phylum Firmicutes Bacteria Metabolize the Plant Sugar Sulfoquinovose via a 6-Deoxy-6-sulfofructose Transaldolase Pathway. IScience, 2020, 23, 101510.	4.1	32
11	A Single Sfp-Type Phosphopantetheinyl Transferase Plays a Major Role in the Biosynthesis of PKS and NRPS Derived Metabolites in <i>Streptomyces ambofaciens</i> ATCC23877. PLoS ONE, 2014, 9, e87607.	2.5	32
12	An Unprecedented 1,2-Shift in the Biosynthesis of the 3-Aminosalicylate Moiety of Antimycins. ChemBioChem, 2012, 13, 769-773.	2.6	31
13	N-(17-Acyloxy-acyl)-glutamines: Novel Surfactants from Oral Secretions of Lepidopteran Larvae. Journal of Organic Chemistry, 2003, 68, 8743-8749.	3.2	30
14	Volatile Lactones from Streptomyces Arise via the Antimycin Biosynthetic Pathway. ChemBioChem, 2012, 13, 1635-1644.	2.6	29
15	Ralfuranone Thioether Production by the Plant Pathogen <i>Ralstonia solanacearum</i> . ChemBioChem, 2013, 14, 2169-2178.	2.6	28
16	Divalent Transition-Metal-Ion Stress Induces Prodigiosin Biosynthesis in <i>Streptomyces coelicolor</i> M145: Formation of Coeligosins. Chemistry - A European Journal, 2015, 21, 6027-6032.	3.3	26
17	N-(17-Phosphonoxylinolenoyl)glutamine and N-(17-phosphonoxylinoleoyl)glutamine from Insect Gut: The First Backbone-Phosphorylated Fatty Acid Derivatives in Nature. Journal of Organic Chemistry, 2004, 69, 1104-1109.	3.2	19
18	Unifying bacteria from decaying wood with various ubiquitous <i>Gibbsiella</i> species as <i>G. acetica</i> sp. nov. based on nucleotide sequence similarities and their acetic acid secretion. Microbiological Research, 2015, 181, 93-104.	5.3	11

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19	Ammonia Released by <i>Streptomyces aburaviensis</i> Induces Droplet Formation in <i>Streptomyces violaceoruber</i> . <i>Journal of Chemical Ecology</i> , 2017, 43, 806-816.	1.8	8
20	Ammonia Production by <i>Streptomyces</i> Symbionts of <i>Acromyrmex</i> Leaf-Cutting Ants Strongly Inhibits the Fungal Pathogen <i>Escovopsis</i> . <i>Microorganisms</i> , 2021, 9, 1622.	3.6	8
21	Two enzymes of the acetone degradation pathway of <i>Desulfococcus biacutus</i> : coenzyme B ₁₂ -dependent 2-hydroxyisobutyryl-CoA mutase and 3-hydroxybutyryl-CoA dehydrogenase. <i>Environmental Microbiology Reports</i> , 2018, 10, 283-292.		6
22	<i>Desulfatiglans anilini</i> Initiates Degradation of Aniline With the Production of Phenylphosphoamidate and 4-Aminobenzoate as Intermediates Through Synthases and Carboxylases From Different Gene Clusters. <i>Frontiers in Microbiology</i> , 2020, 11, 2064.	3.5	2
23	Activation of short-chain ketones and isopropanol in sulfate-reducing bacteria. <i>BMC Microbiology</i> , 2021, 21, 50.	3.3	2
24	Incorporation of dietary carotenoids into the fins of yellow- and red-finned Eurasian perch <i>Perca fluviatilis</i> . <i>Limnologica</i> , 2017, 63, 31-35.	1.5	1
25	Deacylation of Calcium-Dependent Antibiotics from <i>Streptomyces violaceoruber</i> in Co-culture with <i>Streptomyces</i> sp. MG7G1. <i>ChemBioChem</i> , 2020, 21, 3151-3157.	2.6	1