

# Nicolai Kallscheuer

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,903  
citations

218677

26  
h-index

289244

40  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1333  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cultivation and functional characterization of 79 planctomycetes uncovers their unique biology. <i>Nature Microbiology</i> , 2020, 5, 126-140.	13.3	164
2	Construction of a <i>Corynebacterium glutamicum</i> platform strain for the production of stilbenes and (2S)-flavanones. <i>Metabolic Engineering</i> , 2016, 38, 47-55.	7.0	156
3	Production of plant-derived polyphenols in microorganisms: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 1575-1585.	3.6	83
4	Identification of the <i>phd</i> gene cluster responsible for phenylpropanoid utilization in <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1871-1881.	3.6	78
5	<i>Corynebacterium glutamicum</i> as platform for the production of hydroxybenzoic acids. <i>Microbial Cell Factories</i> , 2018, 17, 70.	4.0	64
6	Functional expression of plant-derived O-methyltransferase, flavanone 3-hydroxylase, and flavonol synthase in <i>Corynebacterium glutamicum</i> for production of pterostilbene, kaempferol, and quercetin. <i>Journal of Biotechnology</i> , 2017, 258, 190-196.	3.8	61
7	Production of plant metabolites with applications in the food industry using engineered microorganisms. <i>Current Opinion in Biotechnology</i> , 2019, 56, 7-17.	6.6	58
8	Description of three bacterial strains belonging to the new genus <i>Novipirellula</i> gen. nov., reclassification of <i>Rhodopirellula rosea</i> and <i>Rhodopirellula caenicola</i> and readjustment of the genus threshold of the phylogenetic marker <i>rpoB</i> for Planctomycetaceae. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1779-1795.	1.7	56
9	Engineered Microorganisms for the Production of Food Additives Approved by the European Union – A Systematic Analysis. <i>Frontiers in Microbiology</i> , 2018, 9, 1746.	3.5	49
10	Reversal of $\beta$ -oxidative pathways for the microbial production of chemicals and polymer building blocks. <i>Metabolic Engineering</i> , 2017, 42, 33-42.	7.0	48
11	Updates to the recently introduced family Lacipirellulaceae in the phylum Planctomycetes: isolation of strains belonging to the novel genera <i>Aeoliella</i> , <i>Botrimarina</i> , <i>Pirellulimonas</i> and <i>Pseudobythopirellula</i> and the novel species <i>Bythopirellula polymerisocia</i> and <i>Posidoniimonas corsicana</i> . <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1979-1997.	1.7	47
12	A Novel Synthetic Pathway Enables Microbial Production of Polyphenols Independent from the Endogenous Aromatic Amino Acid Metabolism. <i>ACS Synthetic Biology</i> , 2017, 6, 410-415.	3.8	42
13	Three novel <i>Rubripirellula</i> species isolated from plastic particles submerged in the Baltic Sea and the estuary of the river Warnow in northern Germany. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1767-1778.	1.7	41
14	Additions to the genus <i>Gimesia</i> : description of <i>Gimesia alba</i> sp. nov., <i>Gimesia algae</i> sp. nov., <i>Gimesia aquarii</i> sp. nov., <i>Gimesia aquatilis</i> sp. nov., <i>Gimesia fumaroli</i> sp. nov. and <i>Gimesia panarensis</i> sp. nov., isolated from aquatic habitats of the Northern Hemisphere. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1999-2018.	1.7	41
15	<i>Alienimonas californiensis</i> gen. nov. sp. nov., a novel Planctomycete isolated from the kelp forest in Monterey Bay. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1751-1766.	1.7	40
16	The Microbiome of <i>Posidonia oceanica</i> Seagrass Leaves Can Be Dominated by Planctomycetes. <i>Frontiers in Microbiology</i> , 2020, 11, 1458.	3.5	40
17	<i>Rubinisphaera italica</i> sp. nov. isolated from a hydrothermal area in the Tyrrhenian Sea close to the volcanic island Panarea. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1727-1736.	1.7	38
18	Description of the novel planctomycetal genus <i>Bremerella</i> , containing <i>Bremerella volcania</i> sp. nov., isolated from an active volcanic site, and reclassification of <i>Blastopirellula crema</i> as <i>Bremerella crema</i> comb. nov.. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1823-1837.	1.7	36

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19	Three marine strains constitute the novel genus and species <i>Crateriforma conspicua</i> in the phylum Planctomycetes. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1797-1809.	1.7	35
20	<i>Rhodopirellula heiligendammensis</i> sp. nov., <i>Rhodopirellula pilleata</i> sp. nov., and <i>Rhodopirellula solitaria</i> sp. nov. isolated from natural or artificial marine surfaces in Northern Germany and California, USA, and emended description of the genus <i>Rhodopirellula</i> . <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1737-1750.	1.7	35
21	Analysis of bacterial communities in a municipal duck pond during a phytoplankton bloom and isolation of <i>Anatolimnocola aggregata</i> gen. nov., sp. nov., <i>Lacipirellula limnantheis</i> sp. nov. and <i>Urbifossiella limnaea</i> gen. nov., sp. nov. belonging to the phylum Planctomycetes. <i>Environmental Microbiology</i> , 2021, 23, 1379-1396.	3.8	35
22	Modulation of the central carbon metabolism of <i>Corynebacterium glutamicum</i> improves malonyl-CoA availability and increases plant polyphenol synthesis. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1380-1391.	3.3	34
23	Analysis of Bacterial Communities on North Sea Macroalgae and Characterization of the Isolated Planctomycetes <i>Adhaeretor mobilis</i> gen. nov., sp. nov., <i>Roseimaritima multifibrata</i> sp. nov., <i>Rosistilla ulvae</i> sp. nov. and <i>Rubripirellula lacrimiformis</i> sp. nov.. <i>Microorganisms</i> , 2021, 9, 1494.	3.6	34
24	The planctomycete <i>Stieleria maiorica</i> Mal15T employs stieleriocines to alter the species composition in marine biofilms. <i>Communications Biology</i> , 2020, 3, 303.	4.4	33
25	Impact of the cultivation strategy on resveratrol production from glucose in engineered <i>Corynebacterium glutamicum</i> . <i>Journal of Biotechnology</i> , 2018, 265, 70-75.	3.8	31
26	Tailoring <i>Corynebacterium glutamicum</i> towards increased malonyl-CoA availability for efficient synthesis of the plant pentaketide noreugenin. <i>Microbial Cell Factories</i> , 2019, 18, 71.	4.0	30
27	<i>Blastopirellula retiformator</i> sp. nov. isolated from the shallow-sea hydrothermal vent system close to Panarea Island. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1811-1822.	1.7	29
28	Pink and orange pigmented Planctomycetes produce saxoroxanthin-type carotenoids including a rare C <sub>45</sub> carotenoid. <i>Environmental Microbiology Reports</i> , 2019, 11, 741-748.	2.4	28
29	Identification and Microbial Production of the Raspberry Phenol Salidroside that Is Active against Huntington's Disease. <i>Plant Physiology</i> , 2019, 179, 969-985.	4.8	28
30	Improved production of adipate with <i>Escherichia coli</i> by reversal of $\beta^2$ -oxidation. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2371-2382.	3.6	25
31	Stieleriocines, N-Acyl Dehydrotyrosines From the Marine Planctomycete <i>Stieleria neptunia</i> sp. nov.. <i>Frontiers in Microbiology</i> , 2020, 11, 1408.	3.5	25
32	Cultivation-Independent Analysis of the Bacterial Community Associated With the Calcareous Sponge <i>Clathrina clathrus</i> and Isolation of <i>Poriferisphaera corsica</i> Gen. Nov., Sp. Nov., Belonging to the Barely Studied Class Phycisphaerae in the Phylum Planctomycetes. <i>Frontiers in Microbiology</i> , 2020, 11, 602250.	3.5	23
33	The bacterial phylum Planctomycetes as novel source for bioactive small molecules. <i>Biotechnology Advances</i> , 2021, 53, 107818.	11.7	22
34	<i>Rosistilla oblonga</i> gen. nov., sp. nov. and <i>Rosistilla carotiformis</i> sp. nov., isolated from biotic or abiotic surfaces in Northern Germany, Mallorca, Spain and California, USA. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1939-1952.	1.7	20
35	Three Planctomycetes isolated from biotic surfaces in the Mediterranean Sea and the Pacific Ocean constitute the novel species <i>Symmachiella dynata</i> gen. nov., sp. nov. and <i>Symmachiella macrocystis</i> sp. nov.. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1965-1977.	1.7	20
36	<i>Tautonia plasticadhaerens</i> sp. nov., a novel species in the family Isosphaeraceae isolated from an alga in a hydrothermal area of the Eolian Archipelago. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1889-1900.	1.7	19

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37	<i>Aureliella helgolandensis</i> gen. nov., sp. nov., a novel Planctomycete isolated from a jellyfish at the shore of the island Helgoland. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1839-1849.	1.7	19
38	Microbial synthesis of the type I polyketide 6-methylsalicylate with <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 9619-9631.	3.6	18
39	<i>Calycomorphotria hydatis</i> gen. nov., sp. nov., a novel species in the family Planctomycetaceae with conspicuous subcellular structures. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1877-1887.	1.7	17
40	<i>Maioricimonas rarisocia</i> gen. nov., sp. nov., a novel planctomycete isolated from marine sediments close to Mallorca Island. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1901-1913.	1.7	17
41	<i>Alienimonas chondri</i> sp. nov., a novel planctomycete isolated from the biofilm of the red alga <i>Chondrus crispus</i> . <i>Systematic and Applied Microbiology</i> , 2020, 43, 126083.	2.8	17
42	<i>Caulifigura conformis</i> gen. nov., sp. nov., a novel member of the family Planctomycetaceae isolated from a red biofilm sampled in a hydrothermal area. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1927-1937.	1.7	15
43	<i>Thalassoglobus polymorphus</i> sp. nov., a novel Planctomycete isolated close to a public beach of Mallorca Island. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1915-1926.	1.7	15
44	<i>Lignipirellula cremea</i> gen. nov., sp. nov., a planctomycete isolated from wood particles in a brackish river estuary. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1863-1875.	1.7	15
45	<i>Stieleria varia</i> sp. nov., isolated from wood particles in the Baltic Sea, constitutes a novel species in the family Pirellulaceae within the phylum Planctomycetes. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1953-1963.	1.7	14
46	Description of <i>Polystyrenella longa</i> gen. nov., sp. nov., isolated from polystyrene particles incubated in the Baltic Sea. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1851-1862.	1.7	14
47	<i>Bremerella alba</i> sp. nov., a novel planctomycete isolated from the surface of the macroalga <i>Fucus spiralis</i> . <i>Systematic and Applied Microbiology</i> , 2021, 44, 126189.	2.8	14
48	OptPipe - a pipeline for optimizing metabolic engineering targets. <i>BMC Systems Biology</i> , 2017, 11, 143.	3.0	13
49	BachBerry: BACterial Hosts for production of Bioactive phenolics from bERRY fruits. <i>Phytochemistry Reviews</i> , 2018, 17, 291-326.	6.5	12
50	Metabolic and process engineering for microbial production of protocatechuate with <i>Corynebacterium glutamicum</i> . <i>Biotechnology and Bioengineering</i> , 2021, 118, 4414-4427.	3.3	10
51	<i>Mucisphaera calidilacus</i> gen. nov., sp. nov., a novel planctomycete of the class Phycisphaerae isolated in the shallow sea hydrothermal system of the Lipari Islands. <i>Antonie Van Leeuwenhoek</i> , 2022, 115, 407.	1.7	8
52	Toward the Sustainable Production of the Active Pharmaceutical Ingredient Metaraminol. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5117-5128.	6.7	8
53	Single-Domain Peptidyl-Prolyl cis / trans Isomerase FkpA from <i>Corynebacterium glutamicum</i> Improves the Biomass Yield at Increased Growth Temperatures. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7839-7850.	3.1	1
54	Construction of a <i>Corynebacterium glutamicum</i> Platform Strain for the Production of High-Value Plant Secondary Metabolites. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1392-1393.	0.8	0

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55	<i>Corynebacterium glutamicum</i> – eine Zellfabrik für pflanzliche Polyphenole. <i>BioSpektrum</i> , 2018, 24, 449-449.	0.0	0