

Marla Tuffin

List of Publications by Year in descending order

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59
papers

1,885
citations

304368

22
h-index

264894

42
g-index

64
all docs

64
docs citations

64
times ranked

2820
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular adaptations to psychrophily: the impact of omicron™ technologies. Trends in Microbiology, 2010, 18, 374-381.	3.5	240
2	Non-indigenous microorganisms in the Antarctic: assessing the risks. Trends in Microbiology, 2011, 19, 540-548.	3.5	136
3	Extremophiles in biofuel synthesis. Environmental Technology (United Kingdom), 2010, 31, 871-888.	1.2	130
4	High-Level Diversity of Tailed Phages, Eukaryote-Associated Viruses, and Virophage-Like Elements in the Metaviromes of Antarctic Soils. Applied and Environmental Microbiology, 2014, 80, 6888-6897.	1.4	121
5	Targeted metagenomics as a tool to tap into marine natural product diversity for the discovery and production of drug candidates. Frontiers in Microbiology, 2015, 6, 890.	1.5	98
6	Metagenomic analysis of the viral community in Antarctic desert hypoliths. Environmental Microbiology, 2015, 17, 480-495.	1.8	83
7	Temporal dynamics of hot desert microbial communities reveal structural and functional responses to water input. Scientific Reports, 2016, 6, 34434.	1.6	74
8	Induction of Sucrose Utilization Genes from Bifidobacterium lactis by Sucrose and Raffinose. Applied and Environmental Microbiology, 2003, 69, 24-32.	1.4	73
9	Impact of metagenomic DNA extraction procedures on the identifiable endophytic bacterial diversity in Sorghum bicolor (L. Moench). Journal of Microbiological Methods, 2015, 112, 104-117.	0.7	71
10	Hypolithic microbial communities of quartz rocks from Miers Valley, McMurdo Dry Valleys, Antarctica. Polar Biology, 2011, 34, 1657-1668.	0.5	58
11	Metagenomic gene discovery: How far have we moved into novel sequence space?. Biotechnology Journal, 2009, 4, 1671-1683.	1.8	52
12	Biogeography of bacterial communities in hot springs: a focus on the actinobacteria. Extremophiles, 2012, 16, 669-679.	0.9	49
13	Antibacterial Activities of Bacteria Isolated from the Marine Sponges Isodictya compressa and Higginsia bidentifera Collected from Algoa Bay, South Africa. Marine Drugs, 2017, 15, 47.	2.2	48
14	A novel, extremely alkaliphilic and cold-active esterase from Antarctic desert soil. Extremophiles, 2012, 16, 79-86.	0.9	46
15	Understanding physiological responses to pre-treatment inhibitors in ethanologenic fermentations. Biotechnology Journal, 2012, 7, 1169-1181.	1.8	44
16	Engineering pyruvate decarboxylase-mediated ethanol production in the thermophilic host Geobacillus thermoglucosidasius. Applied Microbiology and Biotechnology, 2014, 98, 1247-1259.	1.7	43
17	Degradation of Hydrocarbons and Heavy Metal Reduction by Marine Bacteria in Highly Contaminated Sediments. Microorganisms, 2020, 8, 1402.	1.6	34
18	Genome sequence of temperate bacteriophage Psymv2 from Antarctic Dry Valley soil isolate Psychrobacter sp. MV2. Extremophiles, 2012, 16, 715-726.	0.9	30

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19	Therapeutic Application of Lantibiotics and Other Lanthipeptides: Old and New Findings. Applied and Environmental Microbiology, 2021, 87, e0018621.	1.4	29
20	Virome Assembly and Annotation: A Surprise in the Namib Desert. Frontiers in Microbiology, 2017, 8, 13.	1.5	28
21	Novel phages of healthy skin metaviromes from South Africa. Scientific Reports, 2018, 8, 12265.	1.6	28
22	Evidence of variability in the structure and recruitment of rhizospheric and endophytic bacterial communities associated with arable sweet sorghum (<i>Sorghum bicolor</i> (L) Moench). Plant and Soil, 2013, 372, 265-278.	1.8	26
23	Metaviromics of Namib Desert Salt Pans: A Novel Lineage of Haloarchaeal Salterproviruses and a Rich Source of ssDNA Viruses. Viruses, 2016, 8, 14.	1.5	24
24	Diversity of dsDNA Viruses in a South African Hot Spring Assessed by Metagenomics and Microscopy. Viruses, 2017, 9, 348.	1.5	22
25	Metagenomics for the Discovery of Novel Biosurfactants. , 2017, , 95-117.		21
26	Novel metagenome-derived ornithine lipids identified by functional screening for biosurfactants. Applied Microbiology and Biotechnology, 2019, 103, 4429-4441.	1.7	21
27	Microbial responses to solvent and alcohol stress. Biotechnology Journal, 2008, 3, 1388-1397.	1.8	20
28	Structure and functional characterization of pyruvate decarboxylase from <i>Gluconacetobacter diazotrophicus</i> . BMC Structural Biology, 2014, 14, 21.	2.3	18
29	Biogeography and taxonomic overview of terrestrial hot spring thermophilic phages. Extremophiles, 2018, 22, 827-837.	0.9	18
30	A novel bacterial Water Hypersensitivity-like protein shows <i>in vivo</i> protection against cold and freeze damage. FEMS Microbiology Letters, 2015, 362, fmv110.	0.7	17
31	Multiple sets of arsenic resistance genes are present within highly arsenic-resistant industrial strains of the biomining bacterium, <i>Acidithiobacillus caldus</i> . International Congress Series, 2004, 1275, 165-172.	0.2	16
32	Cobalt Uptake and Resistance to Trace Metals in <i>Comamonas testosteroni</i> Isolated From a Heavy-Metal Contaminated Site in the Zambian Copperbelt. Geomicrobiology Journal, 2010, 27, 656-668.	1.0	16
33	An unusual feruloyl esterase belonging to family VIII esterases and displaying a broad substrate range. Journal of Molecular Catalysis B: Enzymatic, 2015, 118, 79-88.	1.8	15
34	Identification and characterization of a novel <i>Geobacillus thermoglucosidasius</i> bacteriophage, GVE3. Archives of Virology, 2015, 160, 2269-2282.	0.9	14
35	Niche-dependent genetic diversity in Antarctic metaviromes. Bacteriophage, 2014, 4, e980125.	1.9	12
36	Leaching and antimicrobial properties of silver nanoparticles loaded onto natural zeolite clinoptilolite by ion exchange and wet impregnation. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 97-104.	0.9	12

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37	Three novel bacteriophages isolated from the East African Rift Valley soda lakes. <i>Virology Journal</i> , 2016, 13, 204.	1.4	11
38	Micro-Eukaryotic Diversity in Hypolithons from Miers Valley, Antarctica. <i>Biology</i> , 2013, 2, 331-340.	1.3	9
39	Characterisation of the arsenic resistance genes in <i>Bacillus</i> sp. UWC isolated from maturing fly ash acid mine drainage neutralised solids. <i>South African Journal of Science</i> , 2010, 106, .	0.3	7
40	Characterisation of three novel α -L-arabinofuranosidases from a compost metagenome. <i>BMC Biotechnology</i> , 2019, 19, 22.	1.7	6
41	Factors influencing pigment production by halophilic bacteria and its effect on brine evaporation rates. <i>Microbial Biotechnology</i> , 2019, 12, 334-345.	2.0	6
42	Metagenome-assembled genome (MAG) of <i>Oceanaulis alexandrii</i> NP7 isolated from Mediterranean Sea polluted marine sediments and its bioremediation potential. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	6
43	Genomic Characterization of a Prophage, Smhb1, That Infects <i>Salinivibrio kushneri</i> BNH Isolated from a Namib Desert Saline Spring. <i>Microorganisms</i> , 2021, 9, 2043.	1.6	6
44	Characterization of a highly xylose tolerant β -xylosidase isolated from high temperature horse manure compost. <i>BMC Biotechnology</i> , 2021, 21, 61.	1.7	6
45	Isolation and Characterization of Strain <i>Exiguobacterium</i> sp. KRL4, a Producer of Bioactive Secondary Metabolites from a Tibetan Glacier. <i>Microorganisms</i> , 2021, 9, 890.	1.6	5
46	Three Novel Bacteria Associated with Two Centric Diatom Species from the Mediterranean Sea, <i>Thalassiosira rotula</i> and <i>Skeletonema marinoi</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 13199.	1.8	5
47	Screening Strategies for Biosurfactant Discovery. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2021, , 17-52.	0.6	4
48	Structure and biosynthesis of carotenoids produced by a novel <i>Planococcus</i> sp. isolated from South Africa. <i>Microbial Cell Factories</i> , 2022, 21, 43.	1.9	4
49	Capturing global metabolism. <i>Nature Biotechnology</i> , 2009, 27, 1132-1133.	9.4	3
50	Liquid Phase Multiplex High-Throughput Screening of Metagenomic Libraries Using p-Nitrophenyl-Linked Substrates for Accessory Lignocellulosic Enzymes. <i>Methods in Molecular Biology</i> , 2017, 1539, 219-228.	0.4	3
51	Identification and sequence analysis of two novel cryptic plasmids isolated from the vaginal mucosa of South African women. <i>Plasmid</i> , 2018, 98, 56-62.	0.4	3
52	Cloning, expression and characterization of thermostable YdaP from <i>Bacillus licheniformis</i> 9A. <i>Acta Biochimica Polonica</i> , 2018, 65, 59-66.	0.3	3
53	Draft Genome Sequence of the Antarctic Polyextremophile <i>Nesterenkonia</i> sp. Strain AN1. <i>Genome Announcements</i> , 2014, 2, .	0.8	2
54	Draft Genome Sequences of Marine Isolates of <i>Thalassomonas viridans</i> and <i>Thalassomonas actinarius</i> . <i>Genome Announcements</i> , 2015, 3, .	0.8	2

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55	Draft Genome Sequences of Three <i>Bacillus</i> Species from South African Marine Sponges. <i>Genome Announcements</i> , 2016, 4, .	0.8	2
56	Engineering resistance to phage GVE3 in <i>Geobacillus thermoglucosidasius</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1833-1841.	1.7	2
57	Seasonal shifts of the microbial community structure in a winery waste-impacted wetland soil. <i>Transactions of the Royal Society of South Africa</i> , 2011, 66, 41-53.	0.8	1
58	5. Metagenomics of extreme environments: methods and applications. , 2019, , 93-126.		0
59	Genome Sequence of an <i>Alkaliphilus</i> Species Isolated from Historically Contaminated Sediments of the Gulf of Naples (Mediterranean Sea). <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.3	0