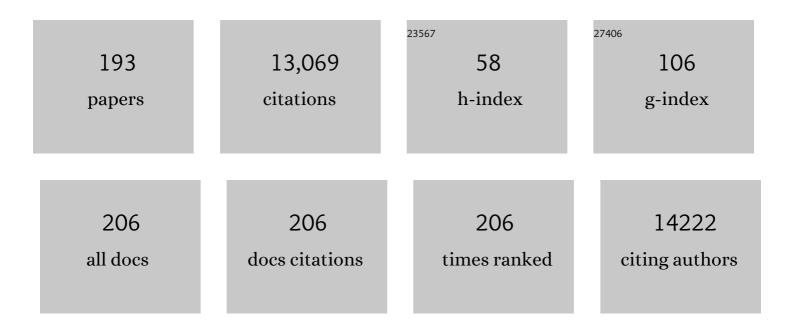
List of Publications by Year in descending order

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PETER N COLVENIN

#	Article	IF	CITATIONS
1	A communal catalogue reveals Earth's multiscale microbial diversity. Nature, 2017, 551, 457-463.	27.8	1,942
2	Obligate oil-degrading marine bacteria. Current Opinion in Biotechnology, 2007, 18, 257-266.	6.6	769
3	Genome sequence of the ubiquitous hydrocarbon-degrading marine bacterium Alcanivorax borkumensis. Nature Biotechnology, 2006, 24, 997-1004.	17.5	417
4	Polychlorinated biphenyl-degrading microbial communities in soils and sediments. Current Opinion in Microbiology, 2002, 5, 246-253.	5.1	263
5	Oleispira antarctica gen. nov., sp. nov., a novel hydrocarbonoclastic marine bacterium isolated from Antarctic coastal sea water. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 779-785.	1.7	259
6	Novel hydrolase diversity retrieved from a metagenome library of bovine rumen microflora. Environmental Microbiology, 2005, 7, 1996-2010.	3.8	258
7	Limits of life in MgCl <sub>2</sub> â€containing environments: chaotropicity defines the window. Environmental Microbiology, 2007, 9, 801-813.	3.8	254
8	Chaperonins govern growth of Escherichia coli at low temperatures. Nature Biotechnology, 2003, 21, 1266-1267.	17.5	228
9	Stratified prokaryote network in the oxic–anoxic transition of a deep-sea halocline. Nature, 2006, 440, 203-207.	27.8	215
10	Mining enzymes from extreme environments. Current Opinion in Microbiology, 2007, 10, 207-214.	5.1	213
11	Discovery of extremely halophilic, methyl-reducing euryarchaea provides insights into the evolutionary origin of methanogenesis. Nature Microbiology, 2017, 2, 17081.	13.3	213
12	Metagenomics for Mining New Genetic Resources of Microbial Communities. Journal of Molecular Microbiology and Biotechnology, 2009, 16, 109-123.	1.0	209
13	Natural microbial diversity in superficial sediments of Milazzo Harbor (Sicily) and community successions during microcosm enrichment with various hydrocarbons. Environmental Microbiology, 2005, 7, 1426-1441.	3.8	194
14	The ocean sampling day consortium. GigaScience, 2015, 4, 27.	6.4	185
15	Estimating the success of enzyme bioprospecting through metagenomics: current status and future trends. Microbial Biotechnology, 2016, 9, 22-34.	4.2	175
16	Novel Polyphenol Oxidase Mined from a Metagenome Expression Library of Bovine Rumen. Journal of Biological Chemistry, 2006, 281, 22933-22942.	3.4	168
17	Thalassolituus oleivorans gen. nov., sp. nov., a novel marine bacterium that obligately utilizes hydrocarbons. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 141-148.	1.7	160
18	Mining genomes and â€~metagenomes' for novel catalysts. Current Opinion in Biotechnology, 2005, 16, 588-593.	6.6	146

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19	The environmental and biosecurity characteristics of livestock carcass disposal methods: A review. Waste Management, 2011, 31, 767-778.	7.4	143
20	Microbial Enzymes Mined from the Urania Deep-Sea Hypersaline Anoxic Basin. Chemistry and Biology, 2005, 12, 895-904.	6.0	142
21	Proteomic Insights into Metabolic Adaptations in Alcanivorax borkumensis Induced by Alkane Utilization. Journal of Bacteriology, 2006, 188, 3763-3773.	2.2	139
22	Analysis of Storage Lipid Accumulation in <i>Alcanivorax borkumensis</i> : Evidence for Alternative Triacylglycerol Biosynthesis Routes in Bacteria. Journal of Bacteriology, 2007, 189, 918-928.	2.2	133
23	Metagenomics approaches in systems microbiology. FEMS Microbiology Reviews, 2009, 33, 236-255.	8.6	130
24	Genome sequence completed of Alcanivorax borkumensis, a hydrocarbon-degrading bacterium that plays a global role in oil removal from marine systems. Journal of Biotechnology, 2003, 106, 215-220.	3.8	126
25	Oleiphilaceae fam. nov., to include Oleiphilus messinensis gen. nov., sp. nov., a novel marine bacterium that obligately utilizes hydrocarbons International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 901-911.	1.7	118
26	â€~ARMAN' archaea depend on association with euryarchaeal host in culture and in situ. Nature Communications, 2017, 8, 60.	12.8	116
27	Genome sequence and functional genomic analysis of the oil-degrading bacterium Oleispira antarctica. Nature Communications, 2013, 4, 2156.	12.8	115
28	Biochemical and Structural Insights into Enzymatic Depolymerization of Polylactic Acid and Other Polyesters by Microbial Carboxylesterases. Biomacromolecules, 2016, 17, 2027-2039.	5.4	114
29	Genomic and mechanistic insights into the biodegradation of organic pollutants. Current Opinion in Biotechnology, 2004, 15, 215-224.	6.6	113
30	Crude oil-induced structural shift of coastal bacterial communities of rod bay (Terra Nova Bay, Ross) Tj ETQqO O Microbiology Ecology, 2004, 49, 419-432.	0 rgBT /0 2.7	verlock 10 Tf ! 109
31	Contribution of crenarchaeal autotrophic ammonia oxidizers to the dark primary production in Tyrrhenian deep waters (Central Mediterranean Sea). ISME Journal, 2011, 5, 945-961.	9.8	109
32	Microbial community of the deepâ€sea brine <scp>L</scp> ake <scp><i>K</i></scp> <i>ryos</i> seawater–brine interface is active below the chaotropicity limit of life as revealed by recovery of <scp>mRNA</scp> . Environmental Microbiology, 2015, 17, 364-382.	3.8	109
33	Determinants and Prediction of Esterase Substrate Promiscuity Patterns. ACS Chemical Biology, 2018, 13, 225-234.	3.4	106
34	Primary producing prokaryotic communities of brine, interface and seawater above the halocline of deep anoxic lake L'Atalante, Eastern Mediterranean Sea. ISME Journal, 2007, 1, 743-755.	9.8	99
35	The novel extremely acidophilic, cell-wall-deficient archaeon Cuniculiplasma divulgatum gen. nov., sp. nov. represents a new family, Cuniculiplasmataceae fam. nov., of the order Thermoplasmatales. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 332-340.	1.7	96
36	Acidiplasma aeolicum gen. nov., sp. nov., a euryarchaeon of the family Ferroplasmaceae isolated from a hydrothermal pool, and transfer of Ferroplasma cupricumulans to Acidiplasma cupricumulans comb. nov International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 2815-2823.	1.7	93

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37	The gill chamber epibiosis of deepâ€sea shrimp <scp><i>R</i></scp> <i>imicaris exoculata</i> : an inâ€depth metagenomic investigation and discovery of <scp><i>Z</i></scp> <i>etaproteobacteria</i> . Environmental Microbiology, 2014, 16, 2723-2738.	3.8	93
38	Effect of the Earthworms Lumbricus terrestris and Aporrectodea caliginosa on Bacterial Diversity in Soil. Microbial Ecology, 2010, 59, 574-587.	2.8	92
39	Bacterial population and biodegradation potential in chronically crude oil-contaminated marine sediments are strongly linked to temperature. Scientific Reports, 2015, 5, 11651.	3.3	91
40	Genetically engineered proteins with two active sites for enhanced biocatalysis and synergistic chemo- and biocatalysis. Nature Catalysis, 2020, 3, 319-328.	34.4	90
41	The cellular machinery of Ferroplasma acidiphilum is iron-protein-dominated. Nature, 2007, 445, 91-94.	27.8	88
42	Unveiling microbial life in new deepâ€sea hypersaline Lake <i>Thetis</i> . Part I: Prokaryotes and environmental Microbiology, 2011, 13, 2250-2268.	3.8	86
43	Functional Metagenomics Unveils a Multifunctional Glycosyl Hydrolase from the Family 43 Catalysing the Breakdown of Plant Polymers in the Calf Rumen. PLoS ONE, 2012, 7, e38134.	2.5	83
44	The environment shapes microbial enzymes: five cold-active and salt-resistant carboxylesterases from marine metagenomes. Applied Microbiology and Biotechnology, 2015, 99, 2165-2178.	3.6	83
45	Mutation in a " tesB -Like―Hydroxyacyl-Coenzyme A-Specific Thioesterase Gene Causes Hyperproduction of Extracellular Polyhydroxyalkanoates by Alcanivorax borkumensis SK2. Journal of Bacteriology, 2006, 188, 8452-8459.	2.2	79
46	Discovery of anaerobic lithoheterotrophic haloarchaea, ubiquitous in hypersaline habitats. ISME Journal, 2017, 11, 1245-1260.	9.8	79
47	Microbial β-glucosidases from cow rumen metagenome enhance the saccharification of lignocellulose in combination with commercial cellulase cocktail. Biotechnology for Biofuels, 2012, 5, 73.	6.2	78
48	Microbial life in the Lake Medee, the largest deep-sea salt-saturated formation. Scientific Reports, 2013, 3, 3554.	3.3	78
49	Microbiome and infectivity studies reveal complex polyspecies tree disease in Acute Oak Decline. ISME Journal, 2018, 12, 386-399.	9.8	75
50	Low temperature-induced systems failure inEscherichia coli: Insights from rescue by cold-adapted chaperones. Proteomics, 2006, 6, 193-206.	2.2	73
51	Expression of a Temperature-Sensitive Esterase in a Novel Chaperone-Based Escherichia coli Strain. Applied and Environmental Microbiology, 2004, 70, 4499-4504.	3.1	71
52	Systems approaches to microbial communities and their functioning. Current Opinion in Biotechnology, 2010, 21, 532-538.	6.6	69
53	Activity screening of environmental metagenomic libraries reveals novel carboxylesterase families. Scientific Reports, 2017, 7, 44103.	3.3	67
54	Mineralization of low molecular weight carbon substrates in soil solution under laboratory and field conditions. Soil Biology and Biochemistry, 2012, 48, 88-95.	8.8	66

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55	Diversity of Glycosyl Hydrolases from Cellulose-Depleting Communities Enriched from Casts of Two Earthworm Species. Applied and Environmental Microbiology, 2010, 76, 5934-5946.	3.1	65
56	Transcriptional profiling of the marine oil-degrading bacterium Alcanivorax borkumensis during growth on n-alkanes. FEMS Microbiology Letters, 2011, 319, 160-168.	1.8	65
57	Microbial community of a saline mud volcano at San Biagio-Belpasso, Mt. Etna (Italy). Environmental Microbiology, 2002, 4, 249-256.	3.8	64
58	Metagenomic analysis of hadopelagic microbial assemblages thriving at the deepest part of Mediterranean Sea, Matapanâ€Vavilov Deep. Environmental Microbiology, 2013, 15, 167-182.	3.8	64
59	Effective bioremediation strategy for rapid in situ cleanup of anoxic marine sediments in mesocosm oil spill simulation. Frontiers in Microbiology, 2014, 5, 162.	3.5	62
60	Elemental sulfur and acetate can support life of a novel strictly anaerobic haloarchaeon. ISME Journal, 2016, 10, 240-252.	9.8	62
61	Structural characterization of lichenysin A components by fast atom bombardment tandem mass spectrometry. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1438, 273-280.	2.4	59
62	Isolation and characterization of novel lipases/esterases from a bovine rumen metagenome. Applied Microbiology and Biotechnology, 2015, 99, 5475-5485.	3.6	59
63	Recent trends in industrial microbiology. Current Opinion in Microbiology, 2008, 11, 240-248.	5.1	58
64	Metaproteomics and metabolomics analyses of chronically petroleumâ€polluted sites reveal the importance of general anaerobic processes uncoupled with degradation. Proteomics, 2015, 15, 3508-3520.	2.2	58
65	Archaea dominate the microbial community in an ecosystem with low-to-moderate temperature and extreme acidity. Microbiome, 2019, 7, 11.	11.1	58
66	â€~ <i>Candidatus</i> Lumbricincola', a novel lineage of uncultured <i>Mollicutes</i> from earthworms of family <i>Lumbricidae</i> . Environmental Microbiology, 2009, 11, 1016-1026.	3.8	57
67	Rational Engineering of Multiple Active Sites in an Ester Hydrolase. Biochemistry, 2018, 57, 2245-2255.	2.5	57
68	Screening and Characterization of Novel Polyesterases from Environmental Metagenomes with High Hydrolytic Activity against Synthetic Polyesters. Environmental Science & Technology, 2018, 52, 12388-12401.	10.0	56
69	The rumen microbiome: an underexplored resource for novel antimicrobial discovery. Npj Biofilms and Microbiomes, 2017, 3, 33.	6.4	51
70	Nano-Sized and Filterable Bacteria and Archaea: Biodiversity and Function. Frontiers in Microbiology, 2018, 9, 1971.	3.5	51
71	Unveiling microbial life in the new deepâ€sea hypersaline Lake <i>Thetis</i> . Part II: a metagenomic study. Environmental Microbiology, 2012, 14, 268-281.	3.8	50
72	Symbiosis between nanohaloarchaeon and haloarchaeon is based on utilization of different polysaccharides. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20223-20234.	7.1	49

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73	The 'pH optimum anomaly' of intracellular enzymes of Ferroplasma acidiphilum. Environmental Microbiology, 2006, 8, 416-425.	3.8	48
74	Biodiversity for biocatalysis: A review of the α/β-hydrolase fold superfamily of esterases-lipases discovered in metagenomes. Biocatalysis and Biotransformation, 2015, 33, 235-249.	2.0	48
75	Microbial Community of a Hydrothermal Mud Vent Underneath the Deep-Sea Anoxic Brine Lake Urania (Eastern Mediterranean). Origins of Life and Evolution of Biospheres, 2007, 37, 177-188.	1.9	47
76	Microbial consortia in mesocosm bioremediation trial using oil sorbents, slow-release fertilizer and bioaugmentation. FEMS Microbiology Ecology, 2009, 69, 288-300.	2.7	44
77	Functional consequences of single:double ring transitions in chaperonins: life in the cold. Molecular Microbiology, 2004, 53, 167-182.	2.5	42
78	A novel α-glucosidase from the acidophilic archaeon Ferroplasma acidiphilum strain Y with high transglycosylation activity and an unusual catalytic nucleophile. Biochemical Journal, 2005, 391, 269-276.	3.7	41
79	<scp><i>H</i></scp> <i>alorhabdus tiamatea:</i> proteogenomics and glycosidase activity measurements identify the first cultivated euryarchaeon from a deepâ€sea anoxic brine lake as potential polysaccharide degrader. Environmental Microbiology, 2014, 16, 2525-2537.	3.8	41
80	Pressure adaptation is linked to thermal adaptation in saltâ€saturated marine habitats. Environmental Microbiology, 2015, 17, 332-345.	3.8	40
81	A putative lichenysin A synthetase operon in Bacillus licheniformis: initial characterization. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1399, 141-153.	2.4	39
82	Biochemical and structural features of a novel cyclodextrinase from cow rumen metagenome. Biotechnology Journal, 2007, 2, 207-213.	3.5	39
83	Reactome Array: Forging a Link Between Metabolome and Genome. Science, 2009, 326, 252-257.	12.6	39
84	Genome sequence of obligate marine polycyclic aromatic hydrocarbons-degrading bacterium Cycloclasticus sp. 78-ME, isolated from petroleum deposits of the sunken tanker Amoco Milford Haven , Mediterranean Sea. Marine Genomics, 2016, 25, 11-13.	1.1	37
85	Niche-specificity factors of a marine oil-degrading bacterium <i>Alcanivorax borkumensis</i> SK2. FEMS Microbiology Letters, 2008, 285, 89-96.	1.8	36
86	Diversity of hydrolases from hydrothermal vent sediments of the Levante Bay, Vulcano Island (Aeolian) Tj ETQqO esterases and an arabinopyranosidase. Applied Microbiology and Biotechnology, 2015, 99, 10031-10046.	0 0 rgBT /0 3.6	Overlock 10 T 36
87	Differential Protein Expression During Growth on Medium Versus Long-Chain Alkanes in the Obligate Marine Hydrocarbon-Degrading Bacterium Thalassolituus oleivorans MIL-1. Frontiers in Microbiology, 2018, 9, 3130.	3.5	36
88	Thermoleophilum album and Thermoleophilum minutum are culturable representatives of group 2 of the Rubrobacteridae (Actinobacteria). International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 377-380.	1.7	35
89	Metagenomics as a Tool for Enzyme Discovery: Hydrolytic Enzymes from Marine-Related Metagenomes. Advances in Experimental Medicine and Biology, 2015, 883, 1-20.	1.6	35
90	Identification and Characterization of Carboxyl Esterases of Gill Chamber-Associated Microbiota in the Deep-Sea Shrimp Rimicaris exoculata by Using Functional Metagenomics. Applied and Environmental Microbiology, 2015, 81, 2125-2136.	3.1	35

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91	Hydrocarbon-Degrading Bacteria Alcanivorax and Marinobacter Associated With Microalgae Pavlova lutheri and Nannochloropsis oculata. Frontiers in Microbiology, 2020, 11, 572931.	3.5	35
92	Single residues dictate the co-evolution of dual esterases: MCP hydrolases from the $\hat{I}\pm/\hat{I}^2$ hydrolase family. Biochemical Journal, 2013, 454, 157-166.	3.7	34
93	Microbial Communities of Polymetallic Deposits' Acidic Ecosystems of Continental Climatic Zone With High Temperature Contrasts. Frontiers in Microbiology, 2019, 10, 1573.	3.5	34
94	Degradation of Hydrocarbons and Heavy Metal Reduction by Marine Bacteria in Highly Contaminated Sediments. Microorganisms, 2020, 8, 1402.	3.6	34
95	A mechanistic understanding of polyethylene biodegradation by the marine bacterium Alcanivorax. Journal of Hazardous Materials, 2022, 436, 129278.	12.4	34
96	Temperature and water controls on vegetation emergence, microbial dynamics, and soil carbon and nitrogen fluxes in a high Arctic tundra ecosystem. Functional Ecology, 2012, 26, 1366-1380.	3.6	33
97	Conversion of a Carboxylesterase into a Triacylglycerol Lipase by a Random Mutation. Angewandte Chemie - International Edition, 2005, 44, 7553-7557.	13.8	32
98	Characterization of a chitinolytic enzyme from Serratia sp. KCK isolated from kimchi juice. Applied Microbiology and Biotechnology, 2007, 75, 1275-1283.	3.6	32
99	Bioremediation of Southern Mediterranean oil polluted sites comes of age. New Biotechnology, 2013, 30, 743-748.	4.4	32
100	Structure and activity of the cold-active and anion-activated carboxyl esterase OLEI01171 from the oil-degrading marine bacterium <i>Oleispira antarctica</i> . Biochemical Journal, 2012, 445, 193-203.	3.7	31
101	Biology of archaea from a novel family Cuniculiplasmataceae (Thermoplasmata) ubiquitous in hyperacidic environments. Scientific Reports, 2016, 6, 39034.	3.3	31
102	Microbial uptake kinetics of dissolved organic carbon (DOC) compound groups from river water and sediments. Scientific Reports, 2019, 9, 11229.	3.3	31
103	Sulfur Respiration in a Group of Facultatively Anaerobic Natronoarchaea Ubiquitous in Hypersaline Soda Lakes. Frontiers in Microbiology, 2018, 9, 2359.	3.5	30
104	Composition and dynamics of biostimulated indigenous oil-degrading microbial consortia from the Irish, North and Mediterranean Seas: a mesocosm study. FEMS Microbiology Ecology, 2012, 81, 520-536.	2.7	29
105	A purple acidophilic di-ferric DNA ligase from <i>Ferroplasma</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8878-8883.	7.1	27
106	Alcanivorax borkumensis produces an extracellular siderophore in iron-limitation condition maintaining the hydrocarbon-degradation efficiency. Marine Genomics, 2014, 17, 43-52.	1.1	27
107	Microbial use of low molecular weight DOM in filtered and unfiltered freshwater: Role of ultra-small microorganisms and implications for water quality monitoring. Science of the Total Environment, 2017, 598, 377-384.	8.0	27
108	Diversity of "Ca. Micrarchaeota―in Two Distinct Types of Acidic Environments and Their Associations with Thermoplasmatales. Genes, 2019, 10, 461.	2.4	27

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109	Dissimilatory sulfate reduction in the archaeon â€~Candidatus Vulcanisaeta moutnovskia' sheds light on the evolution of sulfur metabolism. Nature Microbiology, 2020, 5, 1428-1438.	13.3	27
110	Protein expression in the obligate hydrocarbonâ€degrading psychrophileOleispira antarcticaRBâ€8 during alkane degradation and cold tolerance. Environmental Microbiology, 2020, 22, 1870-1883.	3.8	27
111	Functional Screening of Hydrolytic Activities Reveals an Extremely Thermostable Cellulase from a Deep-Sea Archaeon. Frontiers in Bioengineering and Biotechnology, 2015, 3, 95.	4.1	26
112	Decoding the ocean's microbiological secrets for marine enzyme biodiscovery. FEMS Microbiology Letters, 2019, 366, .	1.8	26
113	Field response of N2O emissions, microbial communities, soil biochemical processes and winter barley growth to the addition of conventional and biodegradable microplastics. Agriculture, Ecosystems and Environment, 2022, 336, 108023.	5.3	26
114	Metagenomics as a new technological tool to gain scientific knowledge. World Journal of Microbiology and Biotechnology, 2009, 25, 945-954.	3.6	25
115	Calm and Frenzy: marine obligate hydrocarbonoclastic bacteria sustain ocean wellness. Current Opinion in Biotechnology, 2022, 73, 337-345.	6.6	24
116	ComA-Dependent Transcriptional Activation of Lichenysin A Synthetase Promoter in Bacillus subtilis cells. Biotechnology Progress, 1997, 13, 757-761.	2.6	23
117	A Mesocosm Study of the Changes in Marine Flagellate and Ciliate Communities in a Crude Oil Bioremediation Trial. Microbial Ecology, 2010, 60, 180-191.	2.8	23
118	Heterotrophic bicarbonate assimilation is the main process of <i>de novo</i> organic carbon synthesis in hadal zone of the <scp>H</scp> ellenic <scp>T</scp> rench, the deepest part of <scp>M</scp> editerranean <scp>S</scp> ea. Environmental Microbiology Reports, 2014, 6, 709-722.	2.4	23
119	Gene Sets for Utilization of Primary and Secondary Nutrition Supplies in the Distal Gut of Endangered Iberian Lynx. PLoS ONE, 2012, 7, e51521.	2.5	23
120	Nutrient enrichment induces a shift in dissolved organic carbon (DOC) metabolism in oligotrophic freshwater sediments. Science of the Total Environment, 2019, 690, 1131-1139.	8.0	22
121	Methylorosula polaris gen. nov., sp. nov., an aerobic, facultatively methylotrophic psychrotolerant bacterium from tundra wetland soil. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 638-646.	1.7	21
122	Structural and Functional Characterization of a Ruminal Î <sup>2</sup> -Glycosidase Defines a Novel Subfamily of Glycoside Hydrolase Family 3 with Permuted Domain Topology. Journal of Biological Chemistry, 2016, 291, 24200-24214.	3.4	21
123	Metabolic and evolutionary patterns in the extremely acidophilic archaeon Ferroplasma acidiphilum YT. Scientific Reports, 2017, 7, 3682.	3.3	21
124	Genome Sequence of Thalassolituus oleivorans MIL-1 (DSM 14913 <sup>T</sup> ). Genome Announcements, 2013, 1, e0014113.	0.8	20
125	Subtle shifts in microbial communities occur alongside the release of carbon induced by drought and rewetting in contrasting peatland ecosystems. Scientific Reports, 2017, 7, 11314.	3.3	20
126	Genomic signatures of fifth autotrophic carbon assimilation pathway in bathypelagic <i>Crenarchaeota</i> . Microbial Biotechnology, 2010, 3, 595-606.	4.2	19

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127	Buwchitin: A Ruminal Peptide with Antimicrobial Potential against Enterococcus faecalis. Frontiers in Chemistry, 2017, 5, 51.	3.6	19
128	Catalytic role of conserved HQGE motif in the CE6 carbohydrate esterase family. FEBS Letters, 2007, 581, 4657-4662.	2.8	18
129	Screening Metagenomic Libraries for Laccase Activities. Methods in Molecular Biology, 2010, 668, 189-202.	0.9	18
130	Degradation Network Reconstruction in Uric Acid and Ammonium Amendments in Oil-Degrading Marine Microcosms Guided by Metagenomic Data. Frontiers in Microbiology, 2015, 6, 1270.	3.5	18
131	The genome analysis of Oleiphilus messinensis ME102 (DSM 13489 T ) reveals backgrounds of its obligate alkane-devouring marine lifestyle. Marine Genomics, 2017, 36, 41-47.	1.1	18
132	Monaibacterium marinum, gen. nov, sp. nov, a new member of the Alphaproteobacteria isolated from seawater of Menai Straits, Wales, UK. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 3310-3317.	1.7	18
133	Ferrous iron―and ammoniumâ€rich diffuse vents support habitatâ€specific communities in a shallow hydrothermal field off the Basiluzzo Islet (Aeolian Volcanic Archipelago) Geobiology, 2017, 15, 664-677.	2.4	17
134	Bioprospecting Reveals Class III ω-Transaminases Converting Bulky Ketones and Environmentally Relevant Polyamines. Applied and Environmental Microbiology, 2019, 85, .	3.1	17
135	Novel Hybrid Esteraseâ€Haloacid Dehalogenase Enzyme. ChemBioChem, 2010, 11, 1975-1978.	2.6	16
136	Genomic Analysis of Pure Cultures and Communities. Springer Protocols, 2015, , 5-27.	0.3	16
137	Inter onversion of catalytic abilities in a bifunctional carboxyl/feruloylâ€esterase from earthworm gut metagenome. Microbial Biotechnology, 2010, 3, 48-58.	4.2	15
138	Cuniculiplasmataceae, their ecogenomic and metabolic patterns, and interactions with â€~ARMAN'. Extremophiles, 2019, 23, 1-7.	2.3	15
139	Bacterial consortium proteomics under 4â€chlorosalicylate carbonâ€limiting conditions. Proteomics, 2009, 9, 2273-2285.	2.2	14
140	Fate of pathogens in a simulated bioreduction system for livestock carcasses. Waste Management, 2012, 32, 933-938.	7.4	14
141	Conversion of Uric Acid into Ammonium in Oil-Degrading Marine Microbial Communities: a Possible Role of Halomonads. Microbial Ecology, 2015, 70, 724-740.	2.8	14
142	ULIXES, unravelling and exploiting Mediterranean Sea microbial diversity and ecology for xenobiotics' and pollutants' clean up. Reviews in Environmental Science and Biotechnology, 2012, 11, 207-211.	8.1	12
143	Relationships between Substrate Promiscuity and Chiral Selectivity of Esterases from Phylogenetically and Environmentally Diverse Microorganisms. Catalysts, 2018, 8, 10.	3.5	11
144	High Representation of Archaea Across All Depths in Oxic and Low-pH Sediment Layers Underlying an Acidic Stream. Frontiers in Microbiology, 2020, 11, 576520.	3.5	11

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145	Characterization and role of a metalloprotease induced by chitin in Serratia sp. KCK. Journal of Industrial Microbiology and Biotechnology, 2007, 34, 715-721.	3.0	10
146	Molecular Methods to Study Complex Microbial Communities. Methods in Molecular Biology, 2010, 668, 1-37.	0.9	10
147	Fate of prions in soil: Degradation of recombinant prion in aqueous extracts from soil and casts of two earthworm species. Soil Biology and Biochemistry, 2010, 42, 1168-1171.	8.8	10
148	Rapid depletion of dissolved organic sulphur (DOS) in freshwaters. Biogeochemistry, 2020, 149, 105-113.	3.5	10
149	Land cover and nutrient enrichment regulates lowâ€molecular weight dissolved organic matter turnover in freshwater ecosystems. Limnology and Oceanography, 2021, 66, 2979-2987.	3.1	10
150	Marine, Aerobic Hydrocarbon-Degrading Gammaproteobacteria: The Family Alcanivoracaceae. , 2019, , 167-179.		10
151	Upstream-independent ribosomal RNA amplification analysis (URA): a new approach to characterizing the diversity of natural microbial communities. Environmental Microbiology, 2001, 3, 662-666.	3.8	8
152	Microbial metagenomes: moving forward industrial biotechnology. Journal of Chemical Technology and Biotechnology, 2007, 82, 421-423.	3.2	8
153	A novel plateletâ€activating factor acetylhydrolase discovered in a metagenome from the earthwormâ€associated microbial community. Environmental Microbiology, 2011, 13, 3036-3046.	3.8	8
154	Insights into the degradation capacities of Amycolatopsis tucumanensis DSM 45259 guided by microarray data. World Journal of Microbiology and Biotechnology, 2016, 32, 201.	3.6	8
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