

David Berry

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

9,620
citations

57631

44
h-index

40881

93
g-index

107
all docs

107
docs citations

107
times ranked

14401
citing authors

#	ARTICLE	IF	CITATIONS
1	Deciphering microbial interactions and detecting keystone species with co-occurrence networks. <i>Frontiers in Microbiology</i> , 2014, 5, 219.	1.5	1,109
2	High-fat diet alters gut microbiota physiology in mice. <i>ISME Journal</i> , 2014, 8, 295-308.	4.4	583
3	Barcoded Primers Used in Multiplex Amplicon Pyrosequencing Bias Amplification. <i>Applied and Environmental Microbiology</i> , 2011, 77, 7846-7849.	1.4	514
4	Microbial ecology of drinking water distribution systems. <i>Current Opinion in Biotechnology</i> , 2006, 17, 297-302.	3.3	372
5	Tracking heavy water (D ² O) incorporation for identifying and sorting active microbial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E194-203.	3.3	359
6	Pediatric obesity is associated with an altered gut microbiota and discordant shifts in <i>Firmicutes</i> populations. <i>Environmental Microbiology</i> , 2017, 19, 95-105.	1.8	326
7	Genome-guided design of a defined mouse microbiota that confers colonization resistance against <i>Salmonella enterica</i> serovar Typhimurium. <i>Nature Microbiology</i> , 2017, 2, 16215.	5.9	313
8	Temporal Bacterial Community Dynamics Vary Among Ulcerative Colitis Patients After Fecal Microbiota Transplantation. <i>American Journal of Gastroenterology</i> , 2013, 108, 1620-1630.	0.2	298
9	Phylotype-level 16S rRNA analysis reveals new bacterial indicators of health state in acute murine colitis. <i>ISME Journal</i> , 2012, 6, 2091-2106.	4.4	291
10	<i>NxrB</i> encoding the beta subunit of nitrite oxidoreductase as functional and phylogenetic marker for nitrite-oxidizing <i>Nitrospira</i> . <i>Environmental Microbiology</i> , 2014, 16, 3055-3071.	1.8	280
11	Hydrocarbon-degrading bacteria enriched by the <i>Deepwater Horizon</i> oil spill identified by cultivation and DNA-SIP. <i>ISME Journal</i> , 2013, 7, 2091-2104.	4.4	278
12	Microbial nutrient niches in the gut. <i>Environmental Microbiology</i> , 2017, 19, 1366-1378.	1.8	258
13	Cyanate as an energy source for nitrifiers. <i>Nature</i> , 2015, 524, 105-108.	13.7	231
14	Host-compound foraging by intestinal microbiota revealed by single-cell stable isotope probing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4720-4725.	3.3	210
15	<i>Mucispirillum schaedleri</i> Antagonizes <i>Salmonella</i> Virulence to Protect Mice against Colitis. <i>Cell Host and Microbe</i> , 2019, 25, 681-694.e8.	5.1	205
16	Rational design of a microbial consortium of mucosal sugar utilizers reduces <i>Clostridiodes difficile</i> colonization. <i>Nature Communications</i> , 2020, 11, 5104.	5.8	177
17	Longitudinal study of murine microbiota activity and interactions with the host during acute inflammation and recovery. <i>ISME Journal</i> , 2014, 8, 1101-1114.	4.4	174
18	An automated Raman-based platform for the sorting of live cells by functional properties. <i>Nature Microbiology</i> , 2019, 4, 1035-1048.	5.9	170

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19	A flexible and economical barcoding approach for highly multiplexed amplicon sequencing of diverse target genes. <i>Frontiers in Microbiology</i> , 2015, 6, 731.	1.5	164
20	Lifestyle and Horizontal Gene Transfer-Mediated Evolution of <i>Mucispirillum schaedleri</i> , a Core Member of the Murine Gut Microbiota. <i>MSystems</i> , 2017, 2, .	1.7	148
21	Barcoded Primers Used in Multiplex Amplicon Pyrosequencing Bias Amplification. <i>Applied and Environmental Microbiology</i> , 2012, 78, 612-612.	1.4	146
22	Endospores of thermophilic bacteria as tracers of microbial dispersal by ocean currents. <i>ISME Journal</i> , 2014, 8, 1153-1165.	4.4	139
23	Role of Bacterial Exopolysaccharides (EPS) in the Fate of the Oil Released during the Deepwater Horizon Oil Spill. <i>PLoS ONE</i> , 2013, 8, e67717.	1.1	135
24	Intestinal microbiota: A source of novel biomarkers in inflammatory bowel diseases?. <i>Bailliere's Best Practice and Research in Clinical Gastroenterology</i> , 2013, 27, 47-58.	1.0	127
25	Microbial nitrogen limitation in the mammalian large intestine. <i>Nature Microbiology</i> , 2018, 3, 1441-1450.	5.9	107
26	Intestinal Microbiota Signatures Associated with Inflammation History in Mice Experiencing Recurring Colitis. <i>Frontiers in Microbiology</i> , 2015, 6, 1408.	1.5	106
27	Long-distance electron transport in individual, living cable bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5786-5791.	3.3	104
28	Transkingdom interactions between <i>Lactobacilli</i> and hepatic mitochondria attenuate western diet-induced diabetes. <i>Nature Communications</i> , 2021, 12, 101.	5.8	86
29	Colonization resistance and microbial ecophysiology: using gnotobiotic mouse models and single-cell technology to explore the intestinal jungle. <i>FEMS Microbiology Reviews</i> , 2013, 37, 793-829.	3.9	85
30	Activity and community structures of sulfate-reducing microorganisms in polar, temperate and tropical marine sediments. <i>ISME Journal</i> , 2016, 10, 796-809.	4.4	85
31	A fiber-deprived diet disturbs the fine-scale spatial architecture of the murine colon microbiome. <i>Nature Communications</i> , 2019, 10, 4366.	5.8	82
32	Polycyclic Aromatic Hydrocarbon Degradation of Phytoplankton-Associated <i>Arenibacter</i> spp. and Description of <i>Arenibacter algicola</i> sp. nov., an Aromatic Hydrocarbon-Degrading Bacterium. <i>Applied and Environmental Microbiology</i> , 2014, 80, 618-628.	1.4	81
33	Aberrant gut-microbiota-immune-brain axis development in premature neonates with brain damage. <i>Cell Host and Microbe</i> , 2021, 29, 1558-1572.e6.	5.1	80
34	Impact of microfiltration treatment of secondary wastewater effluent on biofouling of reverse osmosis membranes. <i>Water Research</i> , 2010, 44, 167-176.	5.3	76
35	HuR Small-Molecule Inhibitor Elicits Differential Effects in Adenomatous Polyposis and Colorectal Carcinogenesis. <i>Cancer Research</i> , 2017, 77, 2424-2438.	0.4	75
36	Antioxidative activity and health benefits of anthocyanin-rich fruit juice in healthy volunteers. <i>Free Radical Research</i> , 2019, 53, 1045-1055.	1.5	74

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37	Intestinal Bacteria Modify Lymphoma Incidence and Latency by Affecting Systemic Inflammatory State, Oxidative Stress, and Leukocyte Genotoxicity. <i>Cancer Research</i> , 2013, 73, 4222-4232.	0.4	68
38	Response of the bacterial community associated with a cosmopolitan marine diatom to crude oil shows a preference for the biodegradation of aromatic hydrocarbons. <i>Environmental Microbiology</i> , 2016, 18, 1817-1833.	1.8	68
39	Development of reactive thin film polymer brush membranes to prevent biofouling. <i>Journal of Membrane Science</i> , 2010, 350, 361-370.	4.1	67
40	Handling of spurious sequences affects the outcome of high-throughput 16S rRNA gene amplicon profiling. <i>ISME Communications</i> , 2021, 1, .	1.7	60
41	Stable-Isotope Probing of Human and Animal Microbiome Function. <i>Trends in Microbiology</i> , 2018, 26, 999-1007.	3.5	57
42	Raman microspectroscopy for microbiology. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	57
43	Mucosal Biofilms Are an Endoscopic Feature of Irritable Bowel Syndrome and Ulcerative Colitis. <i>Gastroenterology</i> , 2021, 161, 1245-1256.e20.	0.6	55
44	Vibrational Spectroscopy for Imaging Single Microbial Cells in Complex Biological Samples. <i>Frontiers in Microbiology</i> , 2017, 8, 675.	1.5	51
45	Design and performance of a single-pass bubbling bioaerosol generator. <i>Atmospheric Environment</i> , 2005, 39, 3521-3533.	1.9	49
46	An Economical and Flexible Dual Barcoding, Two-Step PCR Approach for Highly Multiplexed Amplicon Sequencing. <i>Frontiers in Microbiology</i> , 2021, 12, 669776.	1.5	48
47	Conversion of Rutin, a Prevalent Dietary Flavonol, by the Human Gut Microbiota. <i>Frontiers in Microbiology</i> , 2020, 11, 585428.	1.5	47
48	Optofluidic Raman-activated cell sorting for targeted genome retrieval or cultivation of microbial cells with specific functions. <i>Nature Protocols</i> , 2021, 16, 634-676.	5.5	41
49	Intestinal Epithelial Cell Tyrosine Kinase 2 Transduces IL-22 Signals To Protect from Acute Colitis. <i>Journal of Immunology</i> , 2015, 195, 5011-5024.	0.4	40
50	Type I interferons have opposing effects during the emergence and recovery phases of colitis. <i>European Journal of Immunology</i> , 2014, 44, 2749-2760.	1.6	39
51	Removal of Pharmaceuticals and Personal Care Products during Water Recycling: Microbial Community Structure and Effects of Substrate Concentration. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2440-2450.	1.4	37
52	Fluorinated Gold Nanoparticles for Nanostructure Imaging Mass Spectrometry. <i>ACS Nano</i> , 2018, 12, 6938-6948.	7.3	37
53	Transparent soil microcosms for live-cell imaging and non-destructive stable isotope probing of soil microorganisms. <i>ELife</i> , 2020, 9, .	2.8	36
54	The emerging view of <i>Firmicutes</i> as key fibre degraders in the human gut. <i>Environmental Microbiology</i> , 2016, 18, 2081-2083.	1.8	35

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55	A 12-week intervention with nonivamide, a TRPV1 agonist, prevents a dietary-induced body fat gain and increases peripheral serotonin in moderately overweight subjects. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600731.	1.5	31
56	Elucidating the role of the gut microbiota in the physiological effects of dietary fiber. <i>Microbiome</i> , 2022, 10, 77.	4.9	31
57	<i>Mycobacterium avium</i> Infections of <i>Acanthamoeba</i> Strains: Host Strain Variability, Grazing-Acquired Infections, and Altered Dynamics of Inactivation with Monochloramine. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6685-6688.	1.4	29
58	Vitamin and Amino Acid Auxotrophy in Anaerobic Consortia Operating under Methanogenic Conditions. <i>MSystems</i> , 2017, 2, .	1.7	28
59	A dynamic and complex monochloramine stress response in <i>Escherichia coli</i> revealed by transcriptome analysis. <i>Water Research</i> , 2013, 47, 4978-4985.	5.3	26
60	Intestinal Microbiota Reduces Genotoxic Endpoints Induced By High-Energy Protons. <i>Radiation Research</i> , 2014, 181, 45-53.	0.7	26
61	Bottled aqua incognita: microbiota assembly and dissolved organic matter diversity in natural mineral waters. <i>Microbiome</i> , 2017, 5, 126.	4.9	26
62	Bacterial nutrient foraging in a mouse model of enteral nutrient deprivation: insight into the gut origin of sepsis. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, G734-G743.	1.6	25
63	Evaluating the Detection of Hydrocarbon-Degrading Bacteria in 16S rRNA Gene Sequencing Surveys. <i>Frontiers in Microbiology</i> , 2017, 8, 896.	1.5	25
64	Effect of an Ionic Air Cleaner on Indoor/Outdoor Particle Ratios in a Residential Environment. <i>Aerosol Science and Technology</i> , 2007, 41, 315-328.	1.5	24
65	Allspice and Clove As Source of Triterpene Acids Activating the G Protein-Coupled Bile Acid Receptor TGR5. <i>Frontiers in Pharmacology</i> , 2017, 8, 468.	1.6	24
66	Effect of Growth Conditions on Inactivation of <i>Escherichia coli</i> with Monochloramine. <i>Environmental Science & Technology</i> , 2009, 43, 884-889.	4.6	23
67	Enrichment of Fusobacteria in Sea Surface Oil Slicks from the Deepwater Horizon Oil Spill. <i>Microorganisms</i> , 2016, 4, 24.	1.6	23
68	Next-generation biomonitoring of the early-life chemical exposome in neonatal and infant development. <i>Nature Communications</i> , 2022, 13, 2653.	5.8	23
69	Berry-Enriched Diet in Salt-Sensitive Hypertensive Rats: Metabolic Fate of (Poly)Phenols and the Role of Gut Microbiota. <i>Nutrients</i> , 2019, 11, 2634.	1.7	22
70	Crypt residing bacteria and proximal colonic carcinogenesis in a mouse model of Lynch syndrome. <i>International Journal of Cancer</i> , 2020, 147, 2316-2326.	2.3	20
71	Combined hormonal contraceptives are associated with minor changes in composition and diversity in gut microbiota of healthy women. <i>Environmental Microbiology</i> , 2021, 23, 3037-3047.	1.8	20
72	Comparative transcriptomics of the response of <i>Escherichia coli</i> to the disinfectant monochloramine and to growth conditions inducing monochloramine resistance. <i>Water Research</i> , 2010, 44, 4924-4931.	5.3	19

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73	Systematic Spatial Bias in DNA Microarray Hybridization Is Caused by Probe Spot Position-Dependent Variability in Lateral Diffusion. <i>PLoS ONE</i> , 2011, 6, e23727.	1.1	18
74	Editorial: Bifidobacteria and Their Role in the Human Gut Microbiota. <i>Frontiers in Microbiology</i> , 2016, 7, 2148.	1.5	17
75	Members of the Oral Microbiota Are Associated with IL-8 Release by Gingival Epithelial Cells in Healthy Individuals. <i>Frontiers in Microbiology</i> , 2017, 08, 416.	1.5	17
76	Polyphenol Exposure, Metabolism, and Analysis: A Global Exposomics Perspective. <i>Annual Review of Food Science and Technology</i> , 2021, 12, 461-484.	5.1	17
77	Differential Modulation of the European Sea Bass Gut Microbiota by Distinct Insect Meals. <i>Frontiers in Microbiology</i> , 2022, 13, 831034.	1.5	17
78	SRS-FISH: A high-throughput platform linking microbiome metabolism to identity at the single-cell level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	17
79	The role of gut microbiota, butyrate and proton pump inhibitors in amyotrophic lateral sclerosis: a systematic review. <i>International Journal of Neuroscience</i> , 2020, 130, 727-735.	0.8	14
80	Gut microbiota and undigested food constituents modify toxin composition and suppress the genotoxicity of a naturally occurring mixture of <i>Alternaria</i> toxins in vitro. <i>Archives of Toxicology</i> , 2020, 94, 3541-3552.	1.9	13
81	Early-life chemical exposome and gut microbiome development: African research perspectives within a global environmental health context. <i>Trends in Microbiology</i> , 2022, 30, 1084-1100.	3.5	13
82	In vitro interactions of <i>Alternaria</i> mycotoxins, an emerging class of food contaminants, with the gut microbiota: a bidirectional relationship. <i>Archives of Toxicology</i> , 2021, 95, 2533-2549.	1.9	12
83	Long-Term Consumption of Anthocyanin-Rich Fruit Juice: Impact on Gut Microbiota and Antioxidant Markers in Lymphocytes of Healthy Males. <i>Antioxidants</i> , 2021, 10, 27.	2.2	11
84	Anaerobic Sulfur Oxidation Underlies Adaptation of a Chemosynthetic Symbiont to Oxidic-Anoxic Interfaces. <i>MSystems</i> , 2021, 6, e0118620.	1.7	10
85	Ecological Processes Shaping Microbiomes of Extremely Low Birthweight Infants. <i>Frontiers in Microbiology</i> , 2022, 13, 812136.	1.5	5
86	Making It Stick: A Compelling Case for Precision Microbiome Reconstitution. <i>Cell Host and Microbe</i> , 2016, 20, 415-417.	5.1	4
87	Hidden potential: diet-driven changes in redox level shape the rumen microbiome. <i>Environmental Microbiology</i> , 2017, 19, 19-20.	1.8	4
88	Gilbert's Syndrome and the Gut Microbiota – Insights From the Case-Control BILIHEALTH Study. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 701109.	1.8	4
89	Persistence of the antagonistic effects of a natural mixture of <i>Alternaria</i> mycotoxins on the estrogen-like activity of human feces after anaerobic incubation. <i>Toxicology Letters</i> , 2022, 358, 88-99.	0.4	4
90	Targeting Gut Bacteria Using Inulin-Conjugated Mesoporous Silica Nanoparticles. <i>Advanced Materials Interfaces</i> , 0, , 2102558.	1.9	4

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91	Individuality of the Extremely Premature Infant Gut Microbiota Is Driven by Ecological Drift. <i>MSystems</i> , 2022, 7, e0016322.	1.7	4
92	Reduced alpha diversity of the oral microbiome correlates with short progression-free survival in patients with relapsed/refractory multiple myeloma treated with ixazomib-based therapy (AGMT MM 1.) <i>TJ ETQq0004 rgBT / Overlock 1</i>	0.4	0
93	The unexpected versatility of the cellulosome. <i>Environmental Microbiology</i> , 2017, 19, 13-14.	1.8	2
94	Spotlight on how microbes influence their host's behavior. <i>Environmental Microbiology</i> , 2019, 21, 3185-3187.	1.8	2
95	Lipid synthesis at the trophic base as the source for energy management to build complex structures. <i>Current Opinion in Biotechnology</i> , 2022, 73, 364-373.	3.3	1
96	Targeting Gut Bacteria Using Inulin-Conjugated Mesoporous Silica Nanoparticles (<i>Adv. Mater.</i>) <i>Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 5</i>	1.9	1
97	Individual Sweet Taste Perception Influences Salivary Characteristics After Orosensory Stimulation With Sucrose and Noncaloric Sweeteners. <i>Frontiers in Nutrition</i> , 2022, 9, .	1.6	1
98	760 Bacterial Translocation Into the Mucus of Crypts Is Associated With Proximal Colonic Tumorigenesis in IL-10 ^{-/-} /MSH2loxP/loxP Vill-cre (DKO) Mice. <i>Gastroenterology</i> , 2016, 150, S154.	0.6	0
99	Up-close and personal with the human microbiome. <i>Environmental Microbiology Reports</i> , 2019, 11, 17-19.	1.0	0
100	STILLEBEN with Symbionts. <i>Performance Research</i> , 2020, 25, 83-87.	0.2	0
101	A Mixed-Lipid Emulsion Containing Fish Oil for the Parenteral Nutrition of Preterm Infants: No Impact on Visual Neuronal Conduction. <i>Nutrients</i> , 2021, 13, 4241.	1.7	0