

David Berry

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95 papers	5,973 citations	36 h-index	77 g-index
107 ext. papers	8,083 ext. citations	9.1 avg, IF	6.08 L-index

#	Paper	IF	Citations
95	Deciphering microbial interactions and detecting keystone species with co-occurrence networks. <i>Frontiers in Microbiology</i> , 2014 , 5, 219	5.7	620
94	High-fat diet alters gut microbiota physiology in mice. <i>ISME Journal</i> , 2014 , 8, 295-308	11.9	393
93	Barcoded primers used in multiplex amplicon pyrosequencing bias amplification. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 7846-9	4.8	377
92	Microbial ecology of drinking water distribution systems. <i>Current Opinion in Biotechnology</i> , 2006 , 17, 297-302	11.4	323
91	Temporal bacterial community dynamics vary among ulcerative colitis patients after fecal microbiota transplantation. <i>American Journal of Gastroenterology</i> , 2013 , 108, 1620-30	0.7	254
90	Tracking heavy water (D2O) 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	11.5	244
89	Pediatric obesity is associated with an altered gut microbiota and discordant shifts in Firmicutes populations. <i>Environmental Microbiology</i> , 2017 , 19, 95-105	5.2	213
88	Phylotype-level 16S rRNA analysis reveals new bacterial indicators of health state in acute murine colitis. <i>ISME Journal</i> , 2012 , 6, 2091-106	11.9	208
87	Hydrocarbon-degrading bacteria enriched by the Deepwater Horizon oil spill identified by cultivation and DNA-SIP. <i>ISME Journal</i> , 2013 , 7, 2091-104	11.9	198
86	NxrB encoding the beta subunit of nitrite oxidoreductase as functional and phylogenetic marker for nitrite-oxidizing Nitrospira. <i>Environmental Microbiology</i> , 2014 , 16, 3055-71	5.2	193
85	Genome-guided design of a defined mouse microbiota that confers colonization resistance against <i>Salmonella enterica</i> serovar Typhimurium. <i>Nature Microbiology</i> , 2016 , 2, 16215	26.6	168
84	Cyanate as an energy source for nitrifiers. <i>Nature</i> , 2015 , 524, 105-8	50.4	160
83	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, 4720-5	11.5	147
82	Microbial nutrient niches in the gut. <i>Environmental Microbiology</i> , 2017 , 19, 1366-1378	5.2	145
81	Longitudinal study of murine microbiota activity and interactions with the host during acute inflammation and recovery. <i>ISME Journal</i> , 2014 , 8, 1101-14	11.9	121
80	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	3.7	112
79	A flexible and economical barcoding approach for highly multiplexed amplicon sequencing of diverse target genes. <i>Frontiers in Microbiology</i> , 2015 , 6, 731	5.7	106

78	An automated Raman-based platform for the sorting of live cells by functional properties. <i>Nature Microbiology</i> , 2019 , 4, 1035-1048	26.6	104
77	Intestinal microbiota: a source of novel biomarkers in inflammatory bowel diseases?. <i>Baillieres Best Practice and Research in Clinical Gastroenterology</i> , 2013 , 27, 47-58	2.5	99
76	Mucispirillum schaedleri Antagonizes Salmonella Virulence to Protect Mice against Colitis. <i>Cell Host and Microbe</i> , 2019 , 25, 681-694.e8	23.4	96
75	Lifestyle and Horizontal Gene Transfer-Mediated Evolution of , a Core Member of the Murine Gut Microbiota. <i>MSystems</i> , 2017 , 2,	7.6	88
74	Endospores of thermophilic bacteria as tracers of microbial dispersal by ocean currents. <i>ISME Journal</i> , 2014 , 8, 1153-65	11.9	85
73	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	15.1	75
72	Intestinal Microbiota Signatures Associated with Inflammation History in Mice Experiencing Recurring Colitis. <i>Frontiers in Microbiology</i> , 2015 , 6, 1408	5.7	67
71	Impact of microfiltration treatment of secondary wastewater effluent on biofouling of reverse osmosis membranes. <i>Water Research</i> , 2010 , 44, 167-76	12.5	67
70	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	11.5	62
69	Development of reactive thin film polymer brush membranes to prevent biofouling. <i>Journal of Membrane Science</i> , 2010 , 350, 361-370	9.6	61
68	Rational design of a microbial consortium of mucosal sugar utilizers reduces Clostridiodes difficile colonization. <i>Nature Communications</i> , 2020 , 11, 5104	17.4	57
67	Polycyclic aromatic hydrocarbon degradation of phytoplankton-associated Arenibacter spp. and description of Arenibacter algicola sp. nov., an aromatic hydrocarbon-degrading bacterium. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 618-28	4.8	55
66	HuR Small-Molecule Inhibitor Elicits Differential Effects in Adenomatosis Polyposis and Colorectal Carcinogenesis. <i>Cancer Research</i> , 2017 , 77, 2424-2438	10.1	48
65	Intestinal bacteria modify lymphoma incidence and latency by affecting systemic inflammatory state, oxidative stress, and leukocyte genotoxicity. <i>Cancer Research</i> , 2013 , 73, 4222-32	10.1	48
64	Microbial nitrogen limitation in the mammalian large intestine. <i>Nature Microbiology</i> , 2018 , 3, 1441-1450	26.6	48
63	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, 1817-33	5.2	44
62	Activity and community structures of sulfate-reducing microorganisms in polar, temperate and tropical marine sediments. <i>ISME Journal</i> , 2016 , 10, 796-809	11.9	41
61	Design and performance of a single-pass bubbling bioaerosol generator. <i>Atmospheric Environment</i> , 2005 , 39, 3521-3533	5.3	40

60	Antioxidative activity and health benefits of anthocyanin-rich fruit juice in healthy volunteers. <i>Free Radical Research</i> , 2019 , 53, 1045-1055	4	39
59	Stable-Isotope Probing of Human and Animal Microbiome Function. <i>Trends in Microbiology</i> , 2018 , 26, 999-1007	12.4	36
58	Vibrational Spectroscopy for Imaging Single Microbial Cells in Complex Biological Samples. <i>Frontiers in Microbiology</i> , 2017 , 8, 675	5.7	36
57	A fiber-deprived diet disturbs the fine-scale spatial architecture of the murine colon microbiome. <i>Nature Communications</i> , 2019 , 10, 4366	17.4	34
56	Intestinal Epithelial Cell Tyrosine Kinase 2 Transduces IL-22 Signals To Protect from Acute Colitis. <i>Journal of Immunology</i> , 2015 , 195, 5011-24	5.3	33
55	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, 2440-50	4.8	32
54	Mycobacterium avium infections of Acanthamoeba strains: host strain variability, grazing-acquired infections, and altered dynamics of inactivation with monochloramine. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 6685-8	4.8	28
53	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	5.9	24
52	Intestinal microbiota reduces genotoxic endpoints induced by high-energy protons. <i>Radiation Research</i> , 2014 , 181, 45-53	3.1	24
51	Type I interferons have opposing effects during the emergence and recovery phases of colitis. <i>European Journal of Immunology</i> , 2014 , 44, 2749-60	6.1	23
50	Fluorinated Gold Nanoparticles for Nanostructure Imaging Mass Spectrometry. <i>ACS Nano</i> , 2018 , 12, 6938-6948	16.9	22
49	A dynamic and complex monochloramine stress response in Escherichia coli revealed by transcriptome analysis. <i>Water Research</i> , 2013 , 47, 4978-85	12.5	21
48	Effect of growth conditions on inactivation of Escherichia coli with monochloramine. <i>Environmental Science & Technology</i> , 2009 , 43, 884-9	10.3	21
47	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	5.1	20
46	Barcoded Primers Used in Multiplex Amplicon Pyrosequencing Bias Amplification. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 612-612	4.8	20
45	Bottled aqua incognita: microbiota assembly and dissolved organic matter diversity in natural mineral waters. <i>Microbiome</i> , 2017 , 5, 126	16.6	19
44	Evaluating the Detection of Hydrocarbon-Degrading Bacteria in 16S rRNA Gene Sequencing Surveys. <i>Frontiers in Microbiology</i> , 2017 , 8, 896	5.7	19
43	The emerging view of Firmicutes as key fibre degraders in the human gut. <i>Environmental Microbiology</i> , 2016 , 18, 2081-3	5.2	18

42	Comparative transcriptomics of the response of Escherichia coli to the disinfectant monochloramine and to growth conditions inducing monochloramine resistance. <i>Water Research</i> , 2010 , 44, 4924-31	12.5	18
41	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	3.4	18
40	Berry-Enriched Diet in Salt-Sensitive Hypertensive Rats: Metabolic Fate of (Poly)Phenols and the Role of Gut Microbiota. <i>Nutrients</i> , 2019 , 11,	6.7	17
39	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	5.6	17
38	Conversion of Rutin, a Prevalent Dietary Flavonol, by the Human Gut Microbiota. <i>Frontiers in Microbiology</i> , 2020 , 11, 585428	5.7	17
37	Aberrant gut-microbiota-immune-brain axis development in premature neonates with brain damage. <i>Cell Host and Microbe</i> , 2021 , 29, 1558-1572.e6	23.4	17
36	Vitamin and Amino Acid Auxotrophy in Anaerobic Consortia Operating under Methanogenic Conditions. <i>MSystems</i> , 2017 , 2,	7.6	16
35	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	3.7	16
34	Transkingdom interactions between Lactobacilli and hepatic mitochondria attenuate western diet-induced diabetes. <i>Nature Communications</i> , 2021 , 12, 101	17.4	16
33	Enrichment of Fusobacteria in Sea Surface Oil Slicks from the Deepwater Horizon Oil Spill. <i>Microorganisms</i> , 2016 , 4,	4.9	15
32	Members of the Oral Microbiota Are Associated with IL-8 Release by Gingival Epithelial Cells in Healthy Individuals. <i>Frontiers in Microbiology</i> , 2017 , 8, 416	5.7	14
31	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	18.8	13
30	Crypt residing bacteria and proximal colonic carcinogenesis in a mouse model of Lynch syndrome. <i>International Journal of Cancer</i> , 2020 , 147, 2316-2326	7.5	10
29	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	2	10
28	Raman microspectroscopy for microbiology. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		9
27	Gut microbiota and undigested food constituents modify toxin composition and suppress the genotoxicity of a naturally occurring mixture of Alternaria toxins in vitro. <i>Archives of Toxicology</i> , 2020 , 94, 3541-3552	5.8	9
26	Mucosal Biofilms Are an Endoscopic Feature of Irritable Bowel Syndrome and Ulcerative Colitis. <i>Gastroenterology</i> , 2021 , 161, 1245-1256.e20	13.3	9
25	Long-Term Consumption of Anthocyanin-Rich Fruit Juice: Impact on Gut Microbiota and Antioxidant Markers in Lymphocytes of Healthy Males. <i>Antioxidants</i> , 2020 , 10,	7.1	7

24	Transparent soil microcosms for live-cell imaging and non-destructive stable isotope probing of soil microorganisms. <i>ELife</i> , 2020 , 9,	8.9	7
23	An Economical and Flexible Dual Barcoding, Two-Step PCR Approach for Highly Multiplexed Amplicon Sequencing. <i>Frontiers in Microbiology</i> , 2021 , 12, 669776	5.7	7
22	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	5.2	7
21	Handling of spurious sequences affects the outcome of high-throughput 16S rRNA gene amplicon profiling. <i>ISME Communications</i> , 2021 , 1,		7
20	Polyphenol Exposure, Metabolism, and Analysis: A Global Exposomics Perspective. <i>Annual Review of Food Science and Technology</i> , 2021 , 12, 461-484	14.7	6
19	Handling of spurious sequences affects the outcome of high-throughput 16S rRNA gene amplicon profiling		5
18	In vitro interactions of Alternaria mycotoxins, an emerging class of food contaminants, with the gut microbiota: a bidirectional relationship. <i>Archives of Toxicology</i> , 2021 , 95, 2533-2549	5.8	5
17	Anaerobic Sulfur Oxidation Underlies Adaptation of a Chemosynthetic Symbiont to Oxidic-Anoxic Interfaces. <i>MSystems</i> , 2021 , 6, e0118620	7.6	4
16	Making It Stick: A Compelling Case for Precision Microbiome Reconstitution. <i>Cell Host and Microbe</i> , 2016 , 20, 415-417	23.4	4
15	Hidden potential: diet-driven changes in redox level shape the rumen microbiome. <i>Environmental Microbiology</i> , 2017 , 19, 19-20	5.2	3
14	The unexpected versatility of the cellulosome. <i>Environmental Microbiology</i> , 2017 , 19, 13-14	5.2	2
13	Elucidating the role of the gut microbiota in the physiological effects of dietary fiber.. <i>Microbiome</i> , 2022 , 10, 77	16.6	2
12	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	5.9	1
11	Differential Modulation of the European Sea Bass Gut Microbiota by Distinct Insect Meals.. <i>Frontiers in Microbiology</i> , 2022 , 13, 831034	5.7	1
10	Next-generation biomonitoring of the early-life chemical exposome in neonatal and infant development.. <i>Nature Communications</i> , 2022 , 13, 2653	17.4	1
9	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, phase II trial). <i>EJHaem</i> , 2021 , 2, 102-106	0.9	0
8	Targeting Gut Bacteria Using Inulin-Conjugated Mesoporous Silica Nanoparticles. <i>Advanced Materials Interfaces</i> , 2102558	4.6	0
7	Individuality of the Extremely Premature Infant Gut Microbiota Is Driven by Ecological Drift.. <i>MSystems</i> , 2022 , e0016322	7.6	0

6	Targeting Gut Bacteria Using Inulin-Conjugated Mesoporous Silica Nanoparticles (Adv. Mater. Interfaces 14/2022). <i>Advanced Materials Interfaces</i> , 2022 , 9, 2270079	4.6	o
5	Persistence of the antagonistic effects of a natural mixture of Alternaria mycotoxins on the estrogen-like activity of human feces after anaerobic incubation.. <i>Toxicology Letters</i> , 2022 , 358, 88-99	4.4	
4	Lipid synthesis at the trophic base as the source for energy management to build complex structures. <i>Current Opinion in Biotechnology</i> , 2021 , 73, 364-373	11.4	
3	STILLEBEN with Symbionts. <i>Performance Research</i> , 2020 , 25, 83-87	0.1	
2	Up-close-and-personal with the human microbiome. <i>Environmental Microbiology Reports</i> , 2019 , 11, 17-19	3.7	
1	Ecological Processes Shaping Microbiomes of Extremely Low Birthweight Infants.. <i>Frontiers in Microbiology</i> , 2022 , 13, 812136	5.7	