

Omry Koren

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.

113
papers

24,469
citations

43
h-index

131
g-index

131
ext. papers

31,432
ext. citations

12.9
avg, IF

8.03
L-index

#	Paper	IF	Citations
113	Structure, function and diversity of the healthy human microbiome. <i>Nature</i> , 2012 , 486, 207-14	50.4	6938
112	Human genetics shape the gut microbiome. <i>Cell</i> , 2014 , 159, 789-99	56.2	1750
111	A framework for human microbiome research. <i>Nature</i> , 2012 , 486, 215-21	50.4	1722
110	Host remodeling of the gut microbiome and metabolic changes during pregnancy. <i>Cell</i> , 2012 , 150, 470-80	56.2	1117
109	Diversity and heritability of the maize rhizosphere microbiome under field conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6548-53	11.5	1067
108	Dietary emulsifiers impact the mouse gut microbiota promoting colitis and metabolic syndrome. <i>Nature</i> , 2015 , 519, 92-6	50.4	1016
107	Unravelling the effects of the environment and host genotype on the gut microbiome. <i>Nature Reviews Microbiology</i> , 2011 , 9, 279-90	22.2	973
106	The role of microorganisms in coral health, disease and evolution. <i>Nature Reviews Microbiology</i> , 2007 , 5, 355-62	22.2	949
105	The antibacterial lectin RegIIIgamma promotes the spatial segregation of microbiota and host in the intestine. <i>Science</i> , 2011 , 334, 255-8	33.3	948
104	Human oral, gut, and plaque microbiota in patients with atherosclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108 Suppl 1, 4592-8	11.5	679
103	Minimum information about a marker gene sequence (MIMARKS) and minimum information about any (x) sequence (MIxS) specifications. <i>Nature Biotechnology</i> , 2011 , 29, 415-20	44.5	445
102	Mother-to-Infant Microbial Transmission from Different Body Sites Shapes the Developing Infant Gut Microbiome. <i>Cell Host and Microbe</i> , 2018 , 24, 133-145.e5	23.4	435
101	Conducting a microbiome study. <i>Cell</i> , 2014 , 158, 250-262	56.2	428
100	The coral probiotic hypothesis. <i>Environmental Microbiology</i> , 2006 , 8, 2068-73	5.2	423
99	Impact of training sets on classification of high-throughput bacterial 16s rRNA gene surveys. <i>ISME Journal</i> , 2012 , 6, 94-103	11.9	385
98	A guide to enterotypes across the human body: meta-analysis of microbial community structures in human microbiome datasets. <i>PLoS Computational Biology</i> , 2013 , 9, e1002863	5	359
97	Transient inability to manage proteobacteria promotes chronic gut inflammation in TLR5-deficient mice. <i>Cell Host and Microbe</i> , 2012 , 12, 139-52	23.4	325

96	Responses of gut microbiota to diet composition and weight loss in lean and obese mice. <i>Obesity</i> , 2012 , 20, 738-47	8	287
95	Microbial endocrinology: the interplay between the microbiota and the endocrine system. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 509-21	15.1	266
94	Analysis of gut microbial regulation of host gene expression along the length of the gut and regulation of gut microbial ecology through MyD88. <i>Gut</i> , 2012 , 61, 1124-31	19.2	261
93	Microbial Changes during Pregnancy, Birth, and Infancy. <i>Frontiers in Microbiology</i> , 2016 , 7, 1031	5.7	257
92	The human gut and groundwater harbor non-photosynthetic bacteria belonging to a new candidate phylum sibling to Cyanobacteria. <i>ELife</i> , 2013 , 2, e01102	8.9	247
91	Fecal microbiota transplant promotes response in immunotherapy-refractory melanoma patients. <i>Science</i> , 2021 , 371, 602-609	33.3	239
90	Large-scale replicated field study of maize rhizosphere identifies heritable microbes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7368-7373	11.5	230
89	Low-dose penicillin in early life induces long-term changes in murine gut microbiota, brain cytokines and behavior. <i>Nature Communications</i> , 2017 , 8, 15062	17.4	214
88	Bacteria associated with mucus and tissues of the coral <i>Oculina patagonica</i> in summer and winter. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 5254-9	4.8	208
87	AIEC pathobiont instigates chronic colitis in susceptible hosts by altering microbiota composition. <i>Gut</i> , 2014 , 63, 1069-80	19.2	149
86	Radiation induces proinflammatory dysbiosis: transmission of inflammatory susceptibility by host cytokine induction. <i>Gut</i> , 2018 , 67, 97-107	19.2	131
85	Direct sequencing of the human microbiome readily reveals community differences. <i>Genome Biology</i> , 2010 , 11, 210	18.3	125
84	Branched chain fatty acids reduce the incidence of necrotizing enterocolitis and alter gastrointestinal microbial ecology in a neonatal rat model. <i>PLoS ONE</i> , 2011 , 6, e29032	3.7	113
83	Chronic Zinc Deficiency Alters Chick Gut Microbiota Composition and Function. <i>Nutrients</i> , 2015 , 7, 9768-847	8.4	112
82	Antibiotics in early life: dysbiosis and the damage done. <i>FEMS Microbiology Reviews</i> , 2018 , 42, 489-499	15.1	89
81	Microbiota at the crossroads of autoimmunity. <i>Autoimmunity Reviews</i> , 2016 , 15, 859-69	13.6	82
80	Dysbiosis of microbiome and probiotic treatment in a genetic model of autism spectrum disorders. <i>Brain, Behavior, and Immunity</i> , 2018 , 73, 310-319	16.6	68
79	Antidepressants affect gut microbiota and <i>Ruminococcus flavefaciens</i> is able to abolish their effects on depressive-like behavior. <i>Translational Psychiatry</i> , 2019 , 9, 133	8.6	67

78	Deep microbial analysis of multiple placentas shows no evidence for a placental microbiome. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2020 , 127, 159-169	3.7	60
77	Interleukin-1 β promotes susceptibility of Toll-like receptor 5 (TLR5) deficient mice to colitis. <i>Gut</i> , 2012 , 61, 373-84	19.2	59
76	Progesterone Increases Bifidobacterium Relative Abundance during Late Pregnancy. <i>Cell Reports</i> , 2019 , 27, 730-736.e3	10.6	57
75	The Pregnancy Microbiome. <i>Nestle Nutrition Institute Workshop Series</i> , 2017 , 88, 1-9	1.9	53
74	Psoriatic patients have a distinct structural and functional fecal microbiota compared with controls. <i>Journal of Dermatology</i> , 2019 , 46, 595-603	1.6	48
73	The microbiota and the hypothalamus-pituitary-adrenocortical (HPA) axis, implications for anxiety and stress disorders. <i>Current Opinion in Neurobiology</i> , 2020 , 62, 76-82	7.6	44
72	Neonatal antibiotic exposure impairs child growth during the first six years of life by perturbing intestinal microbial colonization. <i>Nature Communications</i> , 2021 , 12, 443	17.4	43
71	Dysbiosis of Skin Microbiota in Psoriatic Patients: Co-occurrence of Fungal and Bacterial Communities. <i>Frontiers in Microbiology</i> , 2019 , 10, 438	5.7	42
70	Reprogrammed and transmissible intestinal microbiota confer diminished susceptibility to induced colitis in TMF $^{-/-}$ mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4964-9	11.5	41
69	Bacteria associated with the bleached and cave coral <i>Oculina patagonica</i> . <i>Microbial Ecology</i> , 2008 , 55, 523-9	4.4	41
68	Effects of Diet-Modulated Autologous Fecal Microbiota Transplantation on Weight Regain. <i>Gastroenterology</i> , 2021 , 160, 158-173.e10	13.3	38
67	Maternal Microbiome and Metabolic Health Program Microbiome Development and Health of the Offspring. <i>Trends in Endocrinology and Metabolism</i> , 2019 , 30, 735-744	8.8	36
66	How holobionts get sick-toward a unifying scheme of disease. <i>Microbiome</i> , 2017 , 5, 64	16.6	36
65	Supervised classification of microbiota mitigates mislabeling errors. <i>ISME Journal</i> , 2011 , 5, 570-3	11.9	36
64	Petroleum pollution bioremediation using water-insoluble uric acid as the nitrogen source. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 6337-9	4.8	36
63	The effects of antipsychotic medications on microbiome and weight gain in children and adolescents. <i>BMC Medicine</i> , 2019 , 17, 112	11.4	32
62	The gut microbiota: a possible factor influencing systemic lupus erythematosus. <i>Current Opinion in Rheumatology</i> , 2017 , 29, 374-377	5.3	31
61	Modulation of cytokine patterns and microbiome during pregnancy in IBD. <i>Gut</i> , 2020 , 69, 473-486	19.2	31

60	Alterations in the Gut (Gallus gallus) Microbiota Following the Consumption of Zinc Biofortified Wheat (Triticum aestivum)-Based Diet. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 6291-6299	5.7	30
59	Role of Tryptophan in Microbiota-Induced Depressive-Like Behavior: Evidence From Tryptophan Depletion Study. <i>Frontiers in Behavioral Neuroscience</i> , 2019 , 13, 123	3.5	29
58	Alterations in the Gut Microbiome in the Progression of Cirrhosis to Hepatocellular Carcinoma. <i>MSystems</i> , 2020 , 5,	7.6	27
57	Iron Biofortified Carioca Bean (L.)-Based Brazilian Diet Delivers More Absorbable Iron and Affects the Gut Microbiota In Vivo (). <i>Nutrients</i> , 2018 , 10,	6.7	26
56	Interleukin 1 β Deficient Mice Have an Altered Gut Microbiota Leading to Protection from Dextran Sodium Sulfate-Induced Colitis. <i>MSystems</i> , 2018 , 3,	7.6	25
55	Persistent shifts in Caribbean coral microbiota are linked to the 2010 warm thermal anomaly. <i>Environmental Microbiology Reports</i> , 2015 , 7, 471-9	3.7	22
54	Petroleum Bioremediation in Seawater Using Guano as the Fertilizer. <i>Bioremediation Journal</i> , 2006 , 10, 83-91	2.3	22
53	Interactions between the Gut Microbiome and Mucosal Immunoglobulins A, M, and G in the Developing Infant Gut. <i>MSystems</i> , 2019 , 4,	7.6	22
52	Social-Stress-Responsive Microbiota Induces Stimulation of Self-Reactive Effector T Helper Cells. <i>MSystems</i> , 2019 , 4,	7.6	21
51	Characterizing the gut (Gallus gallus) microbiota following the consumption of an iron biofortified Rwandan cream seeded carioca (Phaseolus Vulgaris L.) bean-based diet. <i>PLoS ONE</i> , 2017 , 12, e0182431	3.7	21
50	Reporting guidelines for human microbiome research: the STORMS checklist. <i>Nature Medicine</i> , 2021 , 27, 1885-1892	50.5	19
49	Microbial signature in IgE-mediated food allergies. <i>Genome Medicine</i> , 2020 , 12, 92	14.4	18
48	Tuftsinn-Phosphorylcholine Maintains Normal Gut Microbiota in Collagen Induced Arthritic Mice. <i>Frontiers in Microbiology</i> , 2017 , 8, 1222	5.7	17
47	Novelties in the field of autoimmunity - 1st Saint Petersburg congress of autoimmunity, the bridge between east and west. <i>Autoimmunity Reviews</i> , 2017 , 16, 1175-1184	13.6	16
46	Patterns of salivary microbiota injury and oral mucositis in recipients of allogeneic hematopoietic stem cell transplantation. <i>Blood Advances</i> , 2020 , 4, 2912-2917	7.8	16
45	Helminth-Based Product and the Microbiome of Mice with Lupus. <i>MSystems</i> , 2019 , 4,	7.6	13
44	In utero human intestine harbors unique metabolome, including bacterial metabolites. <i>JCI Insight</i> , 2020 , 5,	9.9	13
43	Prenatal low-dose penicillin results in long-term sex-specific changes to murine behaviour, immune regulation, and gut microbiota. <i>Brain, Behavior, and Immunity</i> , 2020 , 84, 154-163	16.6	13

42	Molecular (Me)micry?. <i>Cell Host and Microbe</i> , 2018 , 23, 576-578	23.4	12
41	Gut microbiota determines the social behavior of mice and induces metabolic and inflammatory changes in their adipose tissue. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 28	8.2	12
40	Nicotianamine-chelated iron positively affects iron status, intestinal morphology and microbial populations in vivo (Gallus gallus). <i>Scientific Reports</i> , 2020 , 10, 2297	4.9	10
39	Alterations of the salivary and fecal microbiome in patients with primary sclerosing cholangitis. <i>Hepatology International</i> , 2021 , 15, 191-201	8.8	9
38	First trimester biomarkers for prediction of gestational diabetes mellitus. <i>Placenta</i> , 2020 , 101, 80-89	3.4	8
37	Alterations in the Intestinal Morphology, Gut Microbiota, and Trace Mineral Status Following Intra-Amniotic Administration () of Teff () Seed Extracts. <i>Nutrients</i> , 2020 , 12,	6.7	7
36	Attributes of Physical Activity and Gut Microbiome in Adults: A Systematic Review. <i>International Journal of Sports Medicine</i> , 2020 , 41, 801-814	3.6	6
35	The hologenome theory disregards the coral holobiont: reply from Rosenberg et al.. <i>Nature Reviews Microbiology</i> , 2007 , 5, 826-826	22.2	6
34	Over-celling fetal microbial exposure. <i>Cell</i> , 2021 , 184, 5839-5841	56.2	5
33	Sex dependent effects of post-natal penicillin on brain, behavior and immune regulation are prevented by concurrent probiotic treatment. <i>Scientific Reports</i> , 2020 , 10, 10318	4.9	4
32	Repeated Courses of Orally Administered Fecal Microbiota Transplantation for the Treatment of Steroid Resistant and Steroid Dependent Intestinal Acute Graft Vs. Host Disease: A Pilot Study (NCT 03214289). <i>Blood</i> , 2018 , 132, 2121-2121	2.2	4
31	Chronic Dietary Zinc Deficiency Alters Gut Microbiota Composition and Function		4
30	Projection of Gut Microbiome Pre- and Post-Bariatric Surgery To Predict Surgery Outcome. <i>MSystems</i> , 2021 , 6, e0136720	7.6	4
29	Molecular genetics for probiotic engineering: dissecting lactic acid bacteria. <i>Trends in Microbiology</i> , 2021 ,	12.4	4
28	The effects of the Green-Mediterranean diet on cardiometabolic health are linked to gut microbiome modifications: a randomized controlled trial.. <i>Genome Medicine</i> , 2022 , 14, 29	14.4	4
27	The Impact of Antibiotic Use in Breastfeeding Women on the Infant's Gut Microbiome: A Prospective Cohort Study. <i>Open Forum Infectious Diseases</i> , 2017 , 4, S232-S232	1	3
26	The intestinal microbiome, weight, and metabolic changes in women treated by adjuvant chemotherapy for breast and gynecological malignancies. <i>BMC Medicine</i> , 2020 , 18, 281	11.4	3
25	The aging mouse microbiome has obesogenic characteristics. <i>Genome Medicine</i> , 2020 , 12, 87	14.4	3

24	The microbial diversity following antibiotic treatment of Clostridioides difficile infection. <i>BMC Gastroenterology</i> , 2021 , 21, 166	3	3
23	Disruption of paternal circadian rhythm affects metabolic health in male offspring via nongerm cell factors. <i>Science Advances</i> , 2021 , 7,	14.3	3
22	Modifications in the Intestinal Functionality, Morphology and Microbiome Following Intra-Amniotic Administration () of Grape () Stilbenes (Resveratrol and Pterostilbene). <i>Nutrients</i> , 2021 , 13,	6.7	3
21	Activity of Tedizolid, Dalbavancin, and Ceftobiprole Against. <i>Frontiers in Microbiology</i> , 2018 , 9, 1256	5.7	2
20	Preterm infant meconium microbiota transplant induces growth failure, inflammatory activation, and metabolic disturbances in germ-free mice. <i>Cell Reports Medicine</i> , 2021 , 2, 100447	18	2
19	The gut microbiome in pregnancy and pregnancy complications. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2021 , 18, 133-138	1.7	2
18	Developmental intestinal microbiome alterations in canine fading puppy syndrome: a prospective observational study. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 52	8.2	2
17	Microbiome Preprocessing Machine Learning Pipeline. <i>Frontiers in Immunology</i> , 2021 , 12, 677870	8.4	2
16	Quinoa Soluble Fiber and Quercetin Alter the Composition of the Gut Microbiome and Improve Brush Border Membrane Morphology In Vivo (). <i>Nutrients</i> , 2022 , 14,	6.7	1
15	Projection of gut microbiome pre and post-bariatric surgery to predict surgery outcome		1
14	Antibiotics increase aggression behavior and aggression-related pheromones and receptors in <i>Drosophila melanogaster</i>		1
13	Vibrios in Coral Health and Disease231-238		1
12	Characterization of Strains, the Disease Severity, and the Microbial Changes They Induce. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	1
11	The Gut Microbiome 2016 , 799-808		1
10	The microbiome in a healthy pregnancy 2021 , 3-20		1
9	Pathophysiology of SARS-CoV-2 Infection in the Upper Respiratory Tract and Its Relation to Breath Volatile Organic Compounds. <i>MSystems</i> , 2021 , 6, e0010421	7.6	1
8	Autologous fecal microbiota transplantation can retain the metabolic achievements of dietary interventions. <i>European Journal of Internal Medicine</i> , 2021 , 92, 17-23	3.9	1
7	Antibiotics increase aggression behavior and aggression-related pheromones and receptors in <i>Drosophila melanogaster</i> . <i>IScience</i> , 2022 , 104371	6.1	1

6	Oral Mucositis Is Associated with Distinctive Patterns of Oral Microbiota Injury in Patients Undergoing Allogeneic Hematopoietic Stem Cell Transplantation. <i>Blood</i> , 2019 , 134, 3265-3265	2.2	0
5	P853 The gut microbiota of pregnant inflammatory bowel disease patients shows a low diversity, but stable profile throughout pregnancy. <i>Journal of Crohns and Colitis</i> , 2019 , 13, S550-S551	1.5	
4	0167 The Effect of Nocturnal Dinner Type [light]Versus [heavy]On Sleep, Attention and Microbial Composition. <i>Sleep</i> , 2020 , 43, A66-A66	1.1	
3	The Human Intestinal Microbiota and Microbiome 2015 , 617-625		
2	Colitis in TLR5-deficiency Mice: Role of the Microbiota. <i>Inflammatory Bowel Diseases</i> , 2012 , 18, S113-S114	4.5	
1	ARGuing the case for (or against) probiotics. <i>Trends in Microbiology</i> , 2021 , 29, 959-960	12.4	