

Sarkis K Mazmanian

List of Publications by Year in descending order

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91
papers

47,538
citations

9234

74
h-index

40881

93
g-index

99
all docs

99
docs citations

99
times ranked

45737
citing authors

#	ARTICLE	IF	CITATIONS
1	The gut microbiota shapes intestinal immune responses during health and disease. <i>Nature Reviews Immunology</i> , 2009, 9, 313-323.	10.6	3,946
2	Microbiota Modulate Behavioral and Physiological Abnormalities Associated with Neurodevelopmental Disorders. <i>Cell</i> , 2013, 155, 1451-1463.	13.5	2,596
3	An Immunomodulatory Molecule of Symbiotic Bacteria Directs Maturation of the Host Immune System. <i>Cell</i> , 2005, 122, 107-118.	13.5	2,427
4	Indigenous Bacteria from the Gut Microbiota Regulate Host Serotonin Biosynthesis. <i>Cell</i> , 2015, 161, 264-276.	13.5	2,423
5	Gut Microbiota Regulate Motor Deficits and Neuroinflammation in a Model of Parkinson's Disease. <i>Cell</i> , 2016, 167, 1469-1480.e12.	13.5	2,399
6	Animals in a bacterial world, a new imperative for the life sciences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3229-3236.	3.3	2,181
7	A microbial symbiosis factor prevents intestinal inflammatory disease. <i>Nature</i> , 2008, 453, 620-625.	13.7	2,094
8	Inducible Foxp3 regulatory T-cell development by a commensal bacterium of the intestinal microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12204-12209.	3.3	1,899
9	Gut biogeography of the bacterial microbiota. <i>Nature Reviews Microbiology</i> , 2016, 14, 20-32.	13.6	1,772
10	The Toll-Like Receptor 2 Pathway Establishes Colonization by a Commensal of the Human Microbiota. <i>Science</i> , 2011, 332, 974-977.	6.0	1,354
11	Proinflammatory T-cell responses to gut microbiota promote experimental autoimmune encephalomyelitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4615-4622.	3.3	1,110
12	The Central Nervous System and the Gut Microbiome. <i>Cell</i> , 2016, 167, 915-932.	13.5	985
13	Has the Microbiota Played a Critical Role in the Evolution of the Adaptive Immune System?. <i>Science</i> , 2010, 330, 1768-1773.	6.0	956
14	Engineered AAVs for efficient noninvasive gene delivery to the central and peripheral nervous systems. <i>Nature Neuroscience</i> , 2017, 20, 1172-1179.	7.1	927
15	<i>Staphylococcus aureus</i> Sortase, an Enzyme that Anchors Surface Proteins to the Cell Wall. <i>Science</i> , 1999, 285, 760-763.	6.0	923
16	The gut microbiota-brain axis in behaviour and brain disorders. <i>Nature Reviews Microbiology</i> , 2021, 19, 241-255.	13.6	864
17	Communicable Ulcerative Colitis Induced by T-bet Deficiency in the Innate Immune System. <i>Cell</i> , 2007, 131, 33-45.	13.5	837
18	Control of Brain Development, Function, and Behavior by the Microbiome. <i>Cell Host and Microbe</i> , 2015, 17, 565-576.	5.1	815

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19	Gut Microbes and the Brain: Paradigm Shift in Neuroscience. <i>Journal of Neuroscience</i> , 2014, 34, 15490-15496.	1.7	719
20	Gut bacteria from multiple sclerosis patients modulate human T cells and exacerbate symptoms in mouse models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10713-10718.	3.3	709
21	Human Gut Microbiota from Autism Spectrum Disorder Promote Behavioral Symptoms in Mice. <i>Cell</i> , 2019, 177, 1600-1618.e17.	13.5	701
22	Commensal bacteria protect against food allergen sensitization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13145-13150.	3.3	632
23	Passage of Heme-Iron Across the Envelope of <i>Staphylococcus aureus</i> . <i>Science</i> , 2003, 299, 906-909.	6.0	544
24	Outer Membrane Vesicles of a Human Commensal Mediate Immune Regulation and Disease Protection. <i>Cell Host and Microbe</i> , 2012, 12, 509-520.	5.1	531
25	Bacterial colonization factors control specificity and stability of the gut microbiota. <i>Nature</i> , 2013, 501, 426-429.	13.7	530
26	Purification and characterization of sortase, the transpeptidase that cleaves surface proteins of <i>Staphylococcus aureus</i> at the LPXTG motif. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 12424-12429.	3.3	521
27	Gut Microbiota Promote Hematopoiesis to Control Bacterial Infection. <i>Cell Host and Microbe</i> , 2014, 15, 374-381.	5.1	501
28	Gene-microbiota interactions contribute to the pathogenesis of inflammatory bowel disease. <i>Science</i> , 2016, 352, 1116-1120.	6.0	498
29	Innate immune recognition of the microbiota promotes host-microbial symbiosis. <i>Nature Immunology</i> , 2013, 14, 668-675.	7.0	481
30	Specialized Metabolites from the Microbiome in Health and Disease. <i>Cell Metabolism</i> , 2014, 20, 719-730.	7.2	454
31	Gut microbiota utilize immunoglobulin A for mucosal colonization. <i>Science</i> , 2018, 360, 795-800.	6.0	447
32	<i>Staphylococcus aureus</i> sortase mutants defective in the display of surface proteins and in the pathogenesis of animal infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5510-5515.	3.3	413
33	A microbiota signature associated with experimental food allergy promotes allergic sensitization and anaphylaxis. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 131, 201-212.	1.5	381
34	Pathobionts of the gastrointestinal microbiota and inflammatory disease. <i>Current Opinion in Immunology</i> , 2011, 23, 473-480.	2.4	362
35	Sortase-catalysed anchoring of surface proteins to the cell wall of <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , 2001, 40, 1049-1057.	1.2	343
36	The Enteric Network: Interactions between the Immune and Nervous Systems of the Gut. <i>Immunity</i> , 2017, 46, 910-926.	6.6	342

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37	An iron-regulated sortase anchors a class of surface protein during <i>Staphylococcus aureus</i> pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2293-2298.	3.3	338
38	Host-Bacterial Symbiosis in Health and Disease. <i>Advances in Immunology</i> , 2010, 107, 243-274.	1.1	335
39	Protecting the Newborn and Young Infant from Infectious Diseases: Lessons from Immune Ontogeny. <i>Immunity</i> , 2017, 46, 350-363.	6.6	326
40	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020, 579, 123-129.	13.7	316
41	Modeling an autism risk factor in mice leads to permanent immune dysregulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12776-12781.	3.3	307
42	The love-hate relationship between bacterial polysaccharides and the host immune system. <i>Nature Reviews Immunology</i> , 2006, 6, 849-858.	10.6	297
43	Microbiome-microglia connections via the gut-brain axis. <i>Journal of Experimental Medicine</i> , 2019, 216, 41-59.	4.2	275
44	A Pathobiont of the Microbiota Balances Host Colonization and Intestinal Inflammation. <i>Cell Host and Microbe</i> , 2010, 7, 265-276.	5.1	266
45	Finding the Missing Links among Metabolites, Microbes, and the Host. <i>Immunity</i> , 2014, 40, 824-832.	6.6	256
46	Anchoring of Surface Proteins to the Cell Wall of <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 9876-9881.	1.6	254
47	A gut bacterial amyloid promotes α -synuclein aggregation and motor impairment in mice. <i>ELife</i> , 2020, 9, .	2.8	251
48	Gut-seeded α -synuclein fibrils promote gut dysfunction and brain pathology specifically in aged mice. <i>Nature Neuroscience</i> , 2020, 23, 327-336.	7.1	247
49	Coordination of tolerogenic immune responses by the commensal microbiota. <i>Journal of Autoimmunity</i> , 2010, 34, J220-J225.	3.0	232
50	Inactivation of the <i>srtA</i> gene in <i>Listeria monocytogenes</i> inhibits anchoring of surface proteins and affects virulence. <i>Molecular Microbiology</i> , 2002, 43, 869-881.	1.2	214
51	A gut microbial factor modulates locomotor behaviour in <i>Drosophila</i> . <i>Nature</i> , 2018, 563, 402-406.	13.7	199
52	Mapping a multiplexed zoo of mRNA expression. <i>Development (Cambridge)</i> , 2016, 143, 3632-3637.	1.2	198
53	Intestinal Microbes Affect Phenotypes and Functions of Invariant Natural Killer T Cells in Mice. <i>Gastroenterology</i> , 2012, 143, 418-428.	0.6	197
54	Anchoring of Surface Proteins to the Cell Wall of <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 16241-16248.	1.6	193

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55	The placental interleukin-6 signaling controls fetal brain development and behavior. <i>Brain, Behavior, and Immunity</i> , 2017, 62, 11-23.	2.0	186
56	A gut-derived metabolite alters brain activity and anxiety behaviour in mice. <i>Nature</i> , 2022, 602, 647-653.	13.7	179
57	<i>Bacteroides fragilis</i> polysaccharide A induces IL-10 secreting B and T cells that prevent viral encephalitis. <i>Nature Communications</i> , 2019, 10, 2153.	5.8	178
58	Disruption of the gut microbiome as a risk factor for microbial infections. <i>Current Opinion in Microbiology</i> , 2013, 16, 221-227.	2.3	174
59	Gut microbial molecules in behavioural and neurodegenerative conditions. <i>Nature Reviews Neuroscience</i> , 2020, 21, 717-731.	4.9	167
60	Intestinal Microbes in Inflammatory Bowel Diseases. <i>American Journal of Gastroenterology Supplements (Print)</i> , 2012, 1, 15-21.	0.7	165
61	Anchoring of Surface Proteins to the Cell Wall of <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 7447-7452.	1.6	143
62	Microbiota regulate social behaviour via stress response neurons in the brain. <i>Nature</i> , 2021, 595, 409-414.	13.7	142
63	Distinct mechanisms define murine B cell lineage immunoglobulin heavy chain (IgH) repertoires. <i>ELife</i> , 2015, 4, e09083.	2.8	134
64	The human commensal <i>Bacteroides fragilis</i> binds intestinal mucin. <i>Anaerobe</i> , 2011, 17, 137-141.	1.0	119
65	Myeloid-Derived Suppressor Cells Are Controlled by Regulatory T Cells via TGF- β 2 during Murine Colitis. <i>Cell Reports</i> , 2016, 17, 3219-3232.	2.9	116
66	Diverse Intestinal Bacteria Contain Putative Zwitterionic Capsular Polysaccharides with Anti-inflammatory Properties. <i>Cell Host and Microbe</i> , 2016, 20, 535-547.	5.1	108
67	Plasma and Fecal Metabolite Profiles in Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2021, 89, 451-462.	0.7	106
68	The role of <i>Staphylococcus aureus</i> sortase A and sortase B in murine arthritis. <i>Microbes and Infection</i> , 2003, 5, 775-780.	1.0	104
69	Regulation of surface architecture by symbiotic bacteria mediates host colonization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3951-3956.	3.3	101
70	Identification of secreted bacterial proteins by noncanonical amino acid tagging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 433-438.	3.3	99
71	On the Role of <i>Staphylococcus aureus</i> Sortase and Sortase-Catalyzed Surface Protein Anchoring in Murine Septic Arthritis. <i>Journal of Infectious Diseases</i> , 2002, 185, 1417-1424.	1.9	94
72	The Protective Role of <i>Bacteroides fragilis</i> in a Murine Model of Colitis-Associated Colorectal Cancer. <i>MSphere</i> , 2018, 3, .	1.3	91

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73	A Program of <i>Yersinia enterocolitica</i> Type III Secretion Reactions Is Activated by Specific Signals. <i>Journal of Bacteriology</i> , 2001, 183, 4970-4978.	1.0	81
74	The Structure of Sortase B, a Cysteine Transpeptidase that Tethers Surface Protein to the <i>Staphylococcus aureus</i> Cell Wall. <i>Structure</i> , 2004, 12, 105-112.	1.6	79
75	Structures of Sortase B from <i>Staphylococcus aureus</i> and <i>Bacillus anthracis</i> Reveal Catalytic Amino Acid Triad in the Active Site. <i>Structure</i> , 2004, 12, 1147-1156.	1.6	79
76	Interleukin-15 promotes intestinal dysbiosis with butyrate deficiency associated with increased susceptibility to colitis. <i>ISME Journal</i> , 2017, 11, 15-30.	4.4	68
77	Spatially distinct physiology of <i>Bacteroides fragilis</i> within the proximal colon of gnotobiotic mice. <i>Nature Microbiology</i> , 2020, 5, 746-756.	5.9	57
78	The Microbiome Activates CD4 T-cell-mediated Immunity to Compensate for Increased Intestinal Permeability. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2017, 4, 285-297.	2.3	51
79	Getting the Bugs out of the Immune System: Do Bacterial Microbiota "Fix" Intestinal T Cell Responses?. <i>Cell Host and Microbe</i> , 2009, 5, 8-12.	5.1	50
80	Microbiota-brain axis: Context and causality. <i>Science</i> , 2022, 376, 938-939.	6.0	49
81	Safety and target engagement of an oral small-molecule sequestrant in adolescents with autism spectrum disorder: an open-label phase 1b/2a trial. <i>Nature Medicine</i> , 2022, 28, 528-534.	15.2	45
82	Capsular Polysaccharides of Symbiotic Bacteria Modulate Immune Responses During Experimental Colitis. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2008, 46, E11-2.	0.9	42
83	Emerging evidence linking the gut microbiome to neurologic disorders. <i>Genome Medicine</i> , 2018, 10, 98.	3.6	34
84	Gut microbiome-mediated regulation of neuroinflammation. <i>Current Opinion in Immunology</i> , 2022, 76, 102177.	2.4	30
85	Microbial Learning Lessons: SFB Educate the Immune System. <i>Immunity</i> , 2014, 40, 457-459.	6.6	20
86	Interplay between Intestinal Microbiota and Host Immune System. <i>Journal of Bacteriology and Virology</i> , 2014, 44, 1.	0.0	12
87	Gut Immune Balance Is as Easy as S-F-B. <i>Immunity</i> , 2009, 31, 536-538.	6.6	10
88	An embarrassment of sortases "a richness of substrates? Response. <i>Trends in Microbiology</i> , 2001, 9, 101-102.	3.5	9
89	Impaired gut barrier affects microglia health. <i>Nature Neuroscience</i> , 2022, 25, 268-270.	7.1	6
90	Breathe easy: microbes protect from allergies. <i>Nature Medicine</i> , 2012, 18, 492-494.	15.2	4

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91	Winning the Microbial Battle, but Not the War. Cell, 2015, 163, 271-272.	13.5	2