

Suman Ranjan Das

List of Publications by Year in descending order

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105
papers

5,853
citations

76326

40
h-index

85541

71
g-index

122
all docs

122
docs citations

122
times ranked

8995
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadly cross-reactive antibodies dominate the human B cell response against 2009 pandemic H1N1 influenza virus infection. <i>Journal of Experimental Medicine</i> , 2011, 208, 181-193.	8.5	775
2	Hemagglutinin Receptor Binding Avidity Drives Influenza A Virus Antigenic Drift. <i>Science</i> , 2009, 326, 734-736.	12.6	429
3	Pandemic H1N1 influenza vaccine induces a recall response in humans that favors broadly cross-reactive memory B cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9047-9052.	7.1	371
4	Innate immune and chemically triggered oxidative stress modifies translational fidelity. <i>Nature</i> , 2009, 462, 522-526.	27.8	290
5	Defining B cell immunodominance to viruses. <i>Nature Immunology</i> , 2017, 18, 456-463.	14.5	218
6	The soft palate is an important site of adaptation for transmissible influenza viruses. <i>Nature</i> , 2015, 526, 122-125.	27.8	133
7	The ORF3 Protein of Hepatitis E Virus Binds to Src Homology 3 Domains and Activates MAPK. <i>Journal of Biological Chemistry</i> , 2001, 276, 42389-42400.	3.4	132
8	Fitness costs limit influenza A virus hemagglutinin glycosylation as an immune evasion strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1417-22.	7.1	122
9	The Nef Protein of HIV-1 Induces Loss of Cell Surface Costimulatory Molecules CD80 and CD86 in APCs. <i>Journal of Immunology</i> , 2005, 175, 4566-4574.	0.8	101
10	Structure and accessibility of HA trimers on intact 2009 H1N1 pandemic influenza virus to stem region-specific neutralizing antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4592-4597.	7.1	99
11	Defining Influenza A Virus Hemagglutinin Antigenic Drift by Sequential Monoclonal Antibody Selection. <i>Cell Host and Microbe</i> , 2013, 13, 314-323.	11.0	97
12	Deep Sequencing of Influenza A Virus from a Human Challenge Study Reveals a Selective Bottleneck and Only Limited Intra-host Genetic Diversification. <i>Journal of Virology</i> , 2016, 90, 11247-11258.	3.4	97
13	Glycosylation Focuses Sequence Variation in the Influenza A Virus H1 Hemagglutinin Globular Domain. <i>PLoS Pathogens</i> , 2010, 6, e1001211.	4.7	95
14	Acute flaccid myelitis: cause, diagnosis, and management. <i>Lancet, The</i> , 2021, 397, 334-346.	13.7	88
15	Differences in the Nasopharyngeal Microbiome During Acute Respiratory Tract Infection With Human Rhinovirus and Respiratory Syncytial Virus in Infancy. <i>Journal of Infectious Diseases</i> , 2016, 214, 1924-1928.	4.0	84
16	Contemporary Circulating Enterovirus D68 Strains Have Acquired the Capacity for Viral Entry and Replication in Human Neuronal Cells. <i>MBio</i> , 2018, 9, .	4.1	79
17	Respiratory Syncytial Virus whole-genome sequencing identifies convergent evolution of sequence duplication in the C-terminus of the G gene. <i>Scientific Reports</i> , 2016, 6, 26311.	3.3	77
18	Additive Manufacturing of Single-Crystal Superalloy CMSX-4 Through Scanning Laser Epitaxy: Computational Modeling, Experimental Process Development, and Process Parameter Optimization. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 3845-3859.	2.2	77

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19	Nasopharyngeal Lactobacillus is associated with a reduced risk of childhood wheezing illnesses following acute respiratory syncytial virus infection in infancy. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 1447-1456.e9.	2.9	74
20	Comprehensive Genome Scale Phylogenetic Study Provides New Insights on the Global Expansion of Chikungunya Virus. <i>Journal of Virology</i> , 2016, 90, 10600-10611.	3.4	72
21	Microbiome disturbance and resilience dynamics of the upper respiratory tract during influenza A virus infection. <i>Nature Communications</i> , 2020, 11, 2537.	12.8	72
22	RNA Binding Targets Aminoacyl-tRNA Synthetases to Translating Ribosomes. <i>Journal of Biological Chemistry</i> , 2011, 286, 20688-20700.	3.4	71
23	Influenza A Virus Hemagglutinin Antibody Escape Promotes Neuraminidase Antigenic Variation and Drug Resistance. <i>PLoS ONE</i> , 2011, 6, e15190.	2.5	67
24	Antibody Pressure by a Human Monoclonal Antibody Targeting the 2009 Pandemic H1N1 Virus Hemagglutinin Drives the Emergence of a Virus with Increased Virulence in Mice. <i>MBio</i> , 2012, 3, .	4.1	63
25	Nasopharyngeal Microbiome in Respiratory Syncytial Virus Resembles Profile Associated with Increased Childhood Asthma Risk. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 1180-1183.	5.6	63
26	COVID-19 severity from Omicron and Delta SARS-CoV-2 variants. <i>Influenza and Other Respiratory Viruses</i> , 2022, 16, 832-836.	3.4	60
27	Molecular Evolution and Intraclade Recombination of Enterovirus D68 during the 2014 Outbreak in the United States. <i>Journal of Virology</i> , 2016, 90, 1997-2007.	3.4	59
28	Dietary Arginine Regulates Severity of Experimental Colitis and Affects the Colonic Microbiome. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 66.	3.9	58
29	SARS-CoV-2 infection and viral load are associated with the upper respiratory tract microbiome. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 1226-1233.e2.	2.9	58
30	Infant Viral Respiratory Infection Nasal Immune-Response Patterns and Their Association with Subsequent Childhood Recurrent Wheeze. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1064-1073.	5.6	56
31	Evolution and spread of Venezuelan equine encephalitis complex alphavirus in the Americas. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005693.	3.0	56
32	Molecular epidemiology of human enterovirus 71 at the origin of an epidemic of fatal hand, foot and mouth disease cases in Cambodia. <i>Emerging Microbes and Infections</i> , 2016, 5, 1-9.	6.5	54
33	Minimally Invasive Sampling Method Identifies Differences in Taxonomic Richness of Nasal Microbiomes in Young Infants Associated with Mode of Delivery. <i>Microbial Ecology</i> , 2016, 71, 233-242.	2.8	54
34	Chronic rhinosinusitis in elderly patients is associated with an exaggerated neutrophilic proinflammatory response to pathogenic bacteria. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 990-1002.e6.	2.9	54
35	Poor Immunogenicity, Not Vaccine Strain Egg Adaptation, May Explain the Low H3N2 Influenza Vaccine Effectiveness in 2012-2013. <i>Clinical Infectious Diseases</i> , 2018, 67, 327-333.	5.8	53
36	Relative Importance and Additive Effects of Maternal and Infant Risk Factors on Childhood Asthma. <i>PLoS ONE</i> , 2016, 11, e0151705.	2.5	53

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37	Phylodynamics of Enterovirus A71-Associated Hand, Foot, and Mouth Disease in Viet Nam. <i>Journal of Virology</i> , 2015, 89, 8871-8879.	3.4	51
38	Expression quantitative trait locus fine mapping of the 17q12â€“21 asthma locus in African American children: a genetic association and gene expression study. <i>Lancet Respiratory Medicine</i> , the, 2020, 8, 482-492.	10.7	47
39	Generation of a Novel SARS-CoV-2 Sub-genomic RNA Due to the R203K/G204R Variant in Nucleocapsid: Homologous Recombination has Potential to Change SARS-CoV-2 at Both Protein and RNA Level. <i>Pathogens and Immunity</i> , 2021, 6, 27-49.	3.1	46
40	Objectives, design and enrollment results from the Infant Susceptibility to Pulmonary Infections and Asthma Following RSV Exposure Study (INSPIRE). <i>BMC Pulmonary Medicine</i> , 2015, 15, 45.	2.0	45
41	UPF1 Is Crucial for the Infectivity of Human Immunodeficiency Virus Type 1 Progeny Virions. <i>Journal of Virology</i> , 2013, 87, 8853-8861.	3.4	43
42	Patterns of olfactory dysfunction in chronic rhinosinusitis identified by hierarchical cluster analysis and machine learning algorithms. <i>International Forum of Allergy and Rhinology</i> , 2019, 9, 255-264.	2.8	43
43	The effective rate of influenza reassortment is limited during human infection. <i>PLoS Pathogens</i> , 2017, 13, e1006203.	4.7	42
44	Molecular analysis and phylogenetic characterization of HIV in Iran. <i>Journal of Medical Virology</i> , 2006, 78, 853-863.	5.0	39
45	Reassortment of Influenza A Viruses in Wild Birds in Alaska before H5 Clade 2.3.4.4 Outbreaks. <i>Emerging Infectious Diseases</i> , 2017, 23, 654-657.	4.3	38
46	A Two-Pronged Mechanism for HIV-1 Nef-Mediated Endocytosis of Immune Costimulatory Molecules CD80 and CD86. <i>Cell Host and Microbe</i> , 2007, 1, 37-49.	11.0	36
47	Oligomerization of the human immunodeficiency virus type 1 (HIV-1) Vpu protein â€“ a genetic, biochemical and biophysical analysis. <i>Virology Journal</i> , 2007, 4, 81.	3.4	35
48	Influenza A Virus Hemagglutinin Trimerization Completes Monomer Folding and Antigenicity. <i>Journal of Virology</i> , 2013, 87, 9742-9753.	3.4	35
49	HIVâ€™s Nef Induces a Rab11â€“Dependent Routing of Endocytosed Immune Costimulatory Proteins CD80 and CD86 to the Golgi. <i>Traffic</i> , 2008, 9, 1925-1935.	2.7	32
50	HIV-1 Nef Promotes Endocytosis of Cell Surface MHC Class II Molecules via a Constitutive Pathway. <i>Journal of Immunology</i> , 2009, 183, 2415-2424.	0.8	32
51	Interim analysis of an openâ€“label randomized controlled trial evaluating nasal irrigations in nonâ€“hospitalized patients with coronavirus disease 2019. <i>International Forum of Allergy and Rhinology</i> , 2020, 10, 1325-1328.	2.8	32
52	Large-Scale Complete-Genome Sequencing and Phylodynamic Analysis of Eastern Equine Encephalitis Virus Reveals Source-Sink Transmission Dynamics in the United States. <i>Journal of Virology</i> , 2018, 92, .	3.4	31
53	The Salivary Microbiome Is Altered in Children With Eosinophilic Esophagitis and Correlates With Disease Activity. <i>Clinical and Translational Gastroenterology</i> , 2019, 10, e00039.	2.5	31
54	Multiple Introductions and Antigenic Mismatch with Vaccines May Contribute to Increased Predominance of G12P[8] Rotaviruses in the United States. <i>Journal of Virology</i> , 2019, 93, .	3.4	31

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55	A pyrene based fluorescent turn on chemosensor for detection of Cu ²⁺ ions with antioxidant nature. <i>Journal of Luminescence</i> , 2018, 199, 302-309.	3.1	30
56	Spread and Persistence of Influenza A Viruses in Waterfowl Hosts in the North American Mississippi Migratory Flyway. <i>Journal of Virology</i> , 2015, 89, 5371-5381.	3.4	29
57	Evolutionary Dynamics of Influenza A Viruses in US Exhibition Swine. <i>Journal of Infectious Diseases</i> , 2016, 213, 173-182.	4.0	28
58	Enterovirus D-68 Infection, Prophylaxis, and Vaccination in a Novel Permissive Animal Model, the Cotton Rat (<i>Sigmodon hispidus</i>). <i>PLoS ONE</i> , 2016, 11, e0166336.	2.5	28
59	Lack of selective resistance of influenza A virus in presence of host-targeted antiviral, UV-4B. <i>Scientific Reports</i> , 2019, 9, 7484.	3.3	27
60	Severe COVID-19 Is Associated With an Altered Upper Respiratory Tract Microbiome. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 781968.	3.9	27
61	Mouse Monoclonal Antibodies to Anthrax Edema Factor Protect against Infection. <i>Infection and Immunity</i> , 2011, 79, 4609-4616.	2.2	26
62	Whole-genome sequencing and analyses identify high genetic heterogeneity, diversity and endemicity of rotavirus genotype P[6] strains circulating in Africa. <i>Infection, Genetics and Evolution</i> , 2018, 63, 79-88.	2.3	26
63	Long-term surveillance of H7 influenza viruses in American wild aquatic birds: are the H7N3 influenza viruses in wild birds the precursors of highly pathogenic strains in domestic poultry?. <i>Emerging Microbes and Infections</i> , 2015, 4, 1-9.	6.5	25
64	Differing epidemiological dynamics of Chikungunya virus in the Americas during the 2014-2015 epidemic. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006670.	3.0	23
65	The emergence and evolution of influenza A (H1N1) viruses in swine in Canada and the United States. <i>Journal of General Virology</i> , 2017, 98, 2663-2675.	2.9	23
66	Exclusive breast-feeding, the early-life microbiome and immune response, and common childhood respiratory illnesses. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 150, 612-621.	2.9	23
67	Introduction, Evolution, and Dissemination of Influenza A Viruses in Exhibition Swine in the United States during 2009 to 2013. <i>Journal of Virology</i> , 2016, 90, 10963-10971.	3.4	22
68	Influenza A Virus Negative Strand RNA Is Translated for CD8+ T Cell Immunosurveillance. <i>Journal of Immunology</i> , 2018, 201, 1222-1228.	0.8	22
69	Role of HIV-1 subtype C envelope V3 to V5 regions in viral entry, coreceptor utilization and replication efficiency in primary T-lymphocytes and monocyte-derived macrophages. <i>Virology Journal</i> , 2007, 4, 126.	3.4	21
70	Diversifying Selection Analysis Predicts Antigenic Evolution of 2009 Pandemic H1N1 Influenza A Virus in Humans. <i>Journal of Virology</i> , 2015, 89, 5427-5440.	3.4	21
71	Complex Epidemiological Dynamics of Eastern Equine Encephalitis Virus in Florida. <i>American Journal of Tropical Medicine and Hygiene</i> , 2019, 100, 1266-1274.	1.4	21
72	Metatranscriptomics to characterize respiratory virome, microbiome, and host response directly from clinical samples. <i>Cell Reports Methods</i> , 2021, 1, 100091.	2.9	19

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73	Haemagglutinin mutations and glycosylation changes shaped the 2012/13 influenza A(H3N2) epidemic, Houston, Texas. <i>Eurosurveillance</i> , 2015, 20, .	7.0	17
74	Efficient Cross-Priming of Antiviral CD8+ T Cells by Antigen Donor Cells Is GRP94 Independent. <i>Journal of Immunology</i> , 2009, 183, 4205-4210.	0.8	16
75	Distinct mucosal microbial communities in infants with surgical necrotizing enterocolitis correlate with age and antibiotic exposure. <i>PLoS ONE</i> , 2018, 13, e0206366.	2.5	14
76	Evolutionary dynamics and molecular epidemiology of West Nile virus in New York State: 1999â€“2015. <i>Virus Evolution</i> , 2019, 5, vez020.	4.9	14
77	Nasopharyngeal Haemophilus and local immune response during infant respiratory syncytial virus infection. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 1097-1101.e6.	2.9	12
78	Upper respiratory tract bacterial-immune interactions during respiratory syncytial virus infection in infancy. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 966-976.	2.9	11
79	Cotton rat lung transcriptome reveals host immune response to Respiratory Syncytial Virus infection. <i>Scientific Reports</i> , 2018, 8, 11318.	3.3	10
80	Spatial and temporal expansions of Eastern equine encephalitis virus and phylogenetic groups isolated from mosquitoes and mammalian cases in New York State from 2013 to 2019. <i>Emerging Microbes and Infections</i> , 2020, 9, 1638-1650.	6.5	10
81	Generation of a Novel SARS-CoV-2 Sub-genomic RNA Due to the R203K/G204R Variant in Nucleocapsid: Homologous Recombination has Potential to Change SARS-CoV-2 at Both Protein and RNA Level. <i>Pathogens and Immunity</i> , 2021, 6, 27-49.	3.1	10
82	Broadly cross-reactive antibodies dominate the human B cell response against 2009 pandemic H1N1 influenza virus infection. <i>Journal of Experimental Medicine</i> , 2011, 208, 411-411.	8.5	9
83	Molecular characterization of respiratory syncytial viruses circulating in a paediatric cohort in Amman, Jordan. <i>Microbial Genomics</i> , 2021, 7, .	2.0	8
84	The respiratory microbiome after lung transplantation: Reflection or driver of respiratory disease?. <i>American Journal of Transplantation</i> , 2021, 21, 2333-2340.	4.7	7
85	It Takes Two to Tango: A Review of Oncogenic Virus and Host Microbiome Associated Inflammation in Head and Neck Cancer. <i>Cancers</i> , 2022, 14, 3120.	3.7	7
86	The transmission dynamics and diversity of human metapneumovirus in Peru. <i>Influenza and Other Respiratory Viruses</i> , 2018, 12, 508-513.	3.4	6
87	Microbiome in Eosinophilic Esophagitisâ€”Metagenomic, Metatranscriptomic, and Metabolomic Changes: A Systematic Review. <i>Frontiers in Physiology</i> , 2021, 12, 731034.	2.8	6
88	Nearly Complete Genome Sequences of 17 Enterovirus D68 Strains from Kansas City, Missouri, 2018. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	6
89	Genomic analysis of serologically untypable human enteroviruses in Taiwan. <i>Journal of Biomedical Science</i> , 2019, 26, 49.	7.0	5
90	Microarchitected solid oxide fuel cells with improved energy efficiency (Part II): Fabrication and characterization. <i>Journal of Power Sources</i> , 2015, 293, 883-891.	7.8	4

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91	Evaluation of the upper airway microbiome and immune response with nasal epithelial lining fluid absorption and nasal washes. <i>Scientific Reports</i> , 2020, 10, 20618.	3.3	4
92	170: GASTROINTESTINAL MICROBIOTA DIVERSITY AND CLINICAL OUTCOMES IN CONGENITAL HEART DISEASE. <i>Critical Care Medicine</i> , 2020, 48, 68-68.	0.9	4
93	Association between Oral Microbiome and Esophageal Diseases: A State-of-the-Art Review. <i>Digestive Diseases</i> , 2022, 40, 345-354.	1.9	4
94	Pharmacokineticâ€based failure of a detergent virucidal for severe acute respiratory syndromeâ€coronavirusâ€2 (SARSâ€CoVâ€2) nasal infections: A preclinical study and randomized controlled trial. <i>International Forum of Allergy and Rhinology</i> , 2022, , .	2.8	4
95	CysteinyI-tRNA Deacylation Can Be Uncoupled from Protein Synthesis. <i>PLoS ONE</i> , 2012, 7, e33072.	2.5	3
96	Microbial community structure and composition is associated with host species and sex in <i>Sigmodon cotton</i> rats. <i>Animal Microbiome</i> , 2021, 3, 29.	3.8	3
97	Performance evaluation of antibody tests for detecting infant respiratory syncytial virus infection. <i>Journal of Medical Virology</i> , 2021, 93, 3439-3445.	5.0	3
98	First Complete Genome Sequences of Two Keystone Viruses from Florida. <i>Genome Announcements</i> , 2015, 3, .	0.8	2
99	Molecular Structures of Native HA Trimers on 2009 H1N1 Pandemic Influenza Virus Complexed with Neutralizing Antibodies. <i>Biophysical Journal</i> , 2013, 104, 414a.	0.5	1
100	Acute Infection Disrupts the Respiratory Microbiome of Lung Transplant Recipients. <i>Journal of Heart and Lung Transplantation</i> , 2020, 39, S202.	0.6	1
101	741. Impact of Adenovirus Co-detections on Illness Severity. <i>Open Forum Infectious Diseases</i> , 2018, 5, S266-S266.	0.9	0
102	Sa1157 - Salivary Microbiome is Altered in Children with Eosinophilic Esophagitis and is Impacted by Topical Corticosteroids and Severity of Inflammation. <i>Gastroenterology</i> , 2018, 154, S-261-S-262.	1.3	0
103	Su1949 - Dietary Arginine Supplementation Modulates the Colonic Microbiome and Improves Colitis Induced by <i>C. Rodentium</i> or Dextran Sulfate Sodium. <i>Gastroenterology</i> , 2018, 154, S-643.	1.3	0
104	MI-Immune/1801: Lessons from an Ongoing, Multi-Center Trial Involving Biospecimen Collection for Prospective Microbiome and Immune Profiling in Patients Undergoing Reduced Intensity Conditioning Allogeneic HCT. <i>Blood</i> , 2021, 138, 2955-2955.	1.4	0
105	605: DELAYED GASTROINTESTINAL MICROBIAL DIVERSIFICATION IN INFANTS WITH CONGENITAL HEART DISEASE. <i>Critical Care Medicine</i> , 2022, 50, 295-295.	0.9	0