

Kartik Chandran

List of Publications by Year in descending order

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132
papers

10,556
citations

41323

49
h-index

37183

96
g-index

159
all docs

159
docs citations

159
times ranked

13652
citing authors

#	ARTICLE	IF	CITATIONS
1	Ebola virus entry requires the cholesterol transporter Niemann-Pick C1. <i>Nature</i> , 2011, 477, 340-343.	13.7	1,127
2	Endosomal Proteolysis of the Ebola Virus Glycoprotein Is Necessary for Infection. <i>Science</i> , 2005, 308, 1643-1645.	6.0	744
3	Small molecule inhibitors reveal Niemann-Pick C1 is essential for Ebola virus infection. <i>Nature</i> , 2011, 477, 344-348.	13.7	601
4	Broad neutralization of SARS-related viruses by human monoclonal antibodies. <i>Science</i> , 2020, 369, 731-736.	6.0	534
5	Taxonomy of the order Mononegavirales: update 2016. <i>Archives of Virology</i> , 2016, 161, 2351-2360.	0.9	407
6	Immune responses to SARS-CoV-2 infection in hospitalized pediatric and adult patients. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	298
7	Ebola virus entry requires the host-programmed recognition of an intracellular receptor. <i>EMBO Journal</i> , 2012, 31, 1947-1960.	3.5	284
8	The discovery of Bombali virus adds further support for bats as hosts of ebolaviruses. <i>Nature Microbiology</i> , 2018, 3, 1084-1089.	5.9	283
9	A naturally occurring antiviral ribonucleotide encoded by the human genome. <i>Nature</i> , 2018, 558, 610-614.	13.7	225
10	Taxonomy of the order Mononegavirales: update 2019. <i>Archives of Virology</i> , 2019, 164, 1967-1980.	0.9	224
11	2020 taxonomic update for phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. <i>Archives of Virology</i> , 2020, 165, 3023-3072.	0.9	184
12	A Role for Fc Function in Therapeutic Monoclonal Antibody-Mediated Protection against Ebola Virus. <i>Cell Host and Microbe</i> , 2018, 24, 221-233.e5.	5.1	182
13	A Replication-Competent Vesicular Stomatitis Virus for Studies of SARS-CoV-2 Spike-Mediated Cell Entry and Its Inhibition. <i>Cell Host and Microbe</i> , 2020, 28, 486-496.e6.	5.1	178
14	Taxonomy of the order Mononegavirales: update 2017. <i>Archives of Virology</i> , 2017, 162, 2493-2504.	0.9	173
15	Systematic Analysis of Monoclonal Antibodies against Ebola Virus GP Defines Features that Contribute to Protection. <i>Cell</i> , 2018, 174, 938-952.e13.	13.5	173
16	Structural basis for antibody-mediated neutralization of Lassa virus. <i>Science</i> , 2017, 356, 923-928.	6.0	170
17	IFITM3 directly engages and shuttles incoming virus particles to lysosomes. <i>Nature Chemical Biology</i> , 2019, 15, 259-268.	3.9	169
18	Taxonomy of the order Mononegavirales: update 2018. <i>Archives of Virology</i> , 2018, 163, 2283-2294.	0.9	153

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19	Antibodies from a Human Survivor Define Sites of Vulnerability for Broad Protection against Ebolaviruses. <i>Cell</i> , 2017, 169, 878-890.e15.	13.5	145
20	A Forward Genetic Strategy Reveals Destabilizing Mutations in the Ebolavirus Glycoprotein That Alter Its Protease Dependence during Cell Entry. <i>Journal of Virology</i> , 2010, 84, 163-175.	1.5	136
21	The Ebola virus glycoprotein mediates entry via a non-classical dynamin-dependent macropinocytic pathway. <i>Virology</i> , 2011, 419, 72-83.	1.1	118
22	Filoviruses Require Endosomal Cysteine Proteases for Entry but Exhibit Distinct Protease Preferences. <i>Journal of Virology</i> , 2012, 86, 3284-3292.	1.5	114
23	A shared structural solution for neutralizing ebolaviruses. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 1424-1427.	3.6	113
24	Filovirus receptor NPC1 contributes to species-specific patterns of ebolavirus susceptibility in bats. <i>ELife</i> , 2015, 4, .	2.8	110
25	Immunization-Elicited Broadly Protective Antibody Reveals Ebolavirus Fusion Loop as a Site of Vulnerability. <i>Cell</i> , 2017, 169, 891-904.e15.	13.5	103
26	A “Trojan horse” bispecific-antibody strategy for broad protection against ebolaviruses. <i>Science</i> , 2016, 354, 350-354.	6.0	101
27	Haploid Genetic Screen Reveals a Profound and Direct Dependence on Cholesterol for Hantavirus Membrane Fusion. <i>MBio</i> , 2015, 6, e00801.	1.8	100
28	Virus nomenclature below the species level: a standardized nomenclature for natural variants of viruses assigned to the family Filoviridae. <i>Archives of Virology</i> , 2013, 158, 301-311.	0.9	99
29	Comprehensive Functional Analysis of N-Linked Glycans on Ebola Virus GP1. <i>MBio</i> , 2014, 5, e00862-13.	1.8	93
30	Accelerated viral dynamics in bat cell lines, with implications for zoonotic emergence. <i>ELife</i> , 2020, 9, .	2.8	91
31	Host-Primed Ebola Virus GP Exposes a Hydrophobic NPC1 Receptor-Binding Pocket, Revealing a Target for Broadly Neutralizing Antibodies. <i>MBio</i> , 2016, 7, e02154-15.	1.8	86
32	Discussions and decisions of the 2012–2014 International Committee on Taxonomy of Viruses (ICTV) Filoviridae Study Group, January 2012–June 2013. <i>Archives of Virology</i> , 2014, 159, 821-830.	0.9	85
33	Protocadherin-1 is essential for cell entry by New World hantaviruses. <i>Nature</i> , 2018, 563, 559-563.	13.7	84
34	Development of a Human Antibody Cocktail that Deploys Multiple Functions to Confer Pan-Ebolavirus Protection. <i>Cell Host and Microbe</i> , 2019, 25, 39-48.e5.	5.1	83
35	A Two-Antibody Pan-Ebolavirus Cocktail Confers Broad Therapeutic Protection in Ferrets and Nonhuman Primates. <i>Cell Host and Microbe</i> , 2019, 25, 49-58.e5.	5.1	82
36	Antibody Treatment of Ebola and Sudan Virus Infection via a Uniquely Exposed Epitope within the Glycoprotein Receptor-Binding Site. <i>Cell Reports</i> , 2016, 15, 1514-1526.	2.9	80

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37	Longitudinal dynamics of the human B cell response to the yellow fever 17D vaccine. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6675-6685.	3.3	80
38	Filovirus entry into cells – new insights. Current Opinion in Virology, 2012, 2, 206-214.	2.6	73
39	Taxonomy of the order Mononegavirales: second update 2018. Archives of Virology, 2019, 164, 1233-1244.	0.9	70
40	Cathepsin-mediated Necrosis Controls the Adaptive Immune Response by Th2 (T helper type 2)-associated Adjuvants. Journal of Biological Chemistry, 2013, 288, 7481-7491.	1.6	66
41	Direct Visualization of Ebola Virus Fusion Triggering in the Endocytic Pathway. MBio, 2016, 7, e01857-15.	1.8	66
42	Niemann-Pick C1 Is Essential for Ebolavirus Replication and Pathogenesis <i>In Vivo</i> . MBio, 2015, 6, e00565-15.	1.8	65
43	Hantavirus entry: Perspectives and recent advances. Advances in Virus Research, 2019, 104, 185-224.	0.9	65
44	Structural Basis for Differential Neutralization of Ebolaviruses. Viruses, 2012, 4, 447-470.	1.5	63
45	Efficacy and Safety of COVID-19 Convalescent Plasma in Hospitalized Patients. JAMA Internal Medicine, 2022, 182, 115.	2.6	63
46	2021 Taxonomic update of phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. Archives of Virology, 2021, 166, 3513-3566.	0.9	62
47	Inhibition of Ebola Virus Entry by a C-peptide Targeted to Endosomes. Journal of Biological Chemistry, 2011, 286, 15854-15861.	1.6	59
48	Virus nomenclature below the species level: a standardized nomenclature for filovirus strains and variants rescued from cDNA. Archives of Virology, 2014, 159, 1229-37.	0.9	59
49	Conformational changes in the Ebola virus membrane fusion machine induced by pH, Ca ²⁺ , and receptor binding. PLoS Biology, 2020, 18, e3000626.	2.6	59
50	Cell entry by a novel European filovirus requires host endosomal cysteine proteases and Niemann-Pick C1. Virology, 2014, 468-470, 637-646.	1.1	55
51	Virus nomenclature below the species level: a standardized nomenclature for laboratory animal-adapted strains and variants of viruses assigned to the family Filoviridae. Archives of Virology, 2013, 158, 1425-1432.	0.9	54
52	Characterization of the SARS-CoV-2 S Protein: Biophysical, Biochemical, Structural, and Antigenic Analysis. ACS Omega, 2021, 6, 85-102.	1.6	54
53	Complete In Vitro Assembly of the Reovirus Outer Capsid Produces Highly Infectious Particles Suitable for Genetic Studies of the Receptor-Binding Protein. Journal of Virology, 2001, 75, 5335-5342.	1.5	52
54	The Hantavirus Surface Glycoprotein Lattice and Its Fusion Control Mechanism. Cell, 2020, 183, 442-456.e16.	13.5	52

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55	Filovirus RefSeq Entries: Evaluation and Selection of Filovirus Type Variants, Type Sequences, and Names. <i>Viruses</i> , 2014, 6, 3663-3682.	1.5	49
56	Novel Small Molecule Entry Inhibitors of Ebola Virus. <i>Journal of Infectious Diseases</i> , 2015, 212, S425-S434.	1.9	49
57	Single dose of a rVSV-based vaccine elicits complete protection against severe fever with thrombocytopenia syndrome virus. <i>Npj Vaccines</i> , 2019, 4, 5.	2.9	45
58	Designed protein mimics of the Ebola virus glycoprotein GP2 α -helical bundle: Stability and pH effects. <i>Protein Science</i> , 2011, 20, 1587-1596.	3.1	41
59	A New Transferrin Receptor Aptamer Inhibits New World Hemorrhagic Fever Mammarenavirus Entry. <i>Molecular Therapy - Nucleic Acids</i> , 2016, 5, e321.	2.3	41
60	Functional convalescent plasma antibodies and pre-infusion titers shape the early severe COVID-19 immune response. <i>Nature Communications</i> , 2021, 12, 6853.	5.8	41
61	Protective neutralizing antibodies from human survivors of Crimean-Congo hemorrhagic fever. <i>Cell</i> , 2021, 184, 3486-3501.e21.	13.5	39
62	Crystal Structure of the Marburg Virus GP2 Core Domain in Its Postfusion Conformation. <i>Biochemistry</i> , 2012, 51, 7665-7675.	1.2	37
63	Niemann-Pick C1 (NPC1)/NPC1-like1 Chimeras Define Sequences Critical for NPC1's Function as a Filovirus Entry Receptor. <i>Viruses</i> , 2012, 4, 2471-2484.	1.5	36
64	A Mutation in the Ebola Virus Envelope Glycoprotein Restricts Viral Entry in a Host Species- and Cell-Type-Specific Manner. <i>Journal of Virology</i> , 2013, 87, 3324-3334.	1.5	36
65	Treatment of Severe COVID-19 with Convalescent Plasma in Bronx, NYC. <i>JCI Insight</i> , 2021, 6, .	2.3	36
66	Marburg Virus Glycoprotein GP2: pH-Dependent Stability of the Ectodomain α -Helical Bundle. <i>Biochemistry</i> , 2012, 51, 2515-2525.	1.2	35
67	Human monoclonal antibodies against chikungunya virus target multiple distinct epitopes in the E1 and E2 glycoproteins. <i>PLoS Pathogens</i> , 2019, 15, e1008061.	2.1	35
68	A Combination of Receptor-Binding Domain and N-Terminal Domain Neutralizing Antibodies Limits the Generation of SARS-CoV-2 Spike Neutralization-Escape Mutants. <i>MBio</i> , 2021, 12, e0247321.	1.8	35
69	C-peptide inhibitors of Ebola virus glycoprotein-mediated cell entry: Effects of conjugation to cholesterol and side chain crosslinking. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5356-5360.	1.0	33
70	Cysteine Cathepsin Inhibitors as Anti-Ebola Agents. <i>ACS Infectious Diseases</i> , 2016, 2, 173-179.	1.8	33
71	Induction of SARS-CoV-2 neutralizing antibodies by CoronaVac and BNT162b2 vaccines in naïve and previously infected individuals. <i>EBioMedicine</i> , 2022, 78, 103972.	2.7	31
72	Structural basis of broad ebolavirus neutralization by a human survivor antibody. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 204-212.	3.6	30

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73	The shape of pleomorphic virions determines resistance to cell-entry pressure. <i>Nature Microbiology</i> , 2021, 6, 617-629.	5.9	29
74	A Proteolytic Cascade Controls Lysosome Rupture and Necrotic Cell Death Mediated by Lysosome-Destabilizing Adjuvants. <i>PLoS ONE</i> , 2014, 9, e95032.	1.1	29
75	Generation and characterization of protective antibodies to Marburg virus. <i>MAbs</i> , 2017, 9, 696-703.	2.6	28
76	Structure and Characterization of Crimean-Congo Hemorrhagic Fever Virus GP38. <i>Journal of Virology</i> , 2020, 94, .	1.5	28
77	Bispecific Antibody Affords Complete Post-Exposure Protection of Mice from Both Ebola (Zaire) and Sudan Viruses. <i>Scientific Reports</i> , 2016, 6, 19193.	1.6	27
78	Site-Specific Photo-Crosslinking Proteomics Reveal Regulation of IFITM3 Trafficking and Turnover by VCP/p97 ATPase. <i>Cell Chemical Biology</i> , 2020, 27, 571-585.e6.	2.5	27
79	Two Synthetic Antibodies that Recognize and Neutralize Distinct Proteolytic Forms of the Ebola Virus Envelope Glycoprotein. <i>ChemBioChem</i> , 2012, 13, 2549-2557.	1.3	26
80	Two Point Mutations in Old World Hantavirus Glycoproteins Afford the Generation of Highly Infectious Recombinant Vesicular Stomatitis Virus Vectors. <i>MBio</i> , 2019, 10, .	1.8	26
81	Structural Characterization of the Glycoprotein GP2 Core Domain from the CAS Virus, a Novel Arenavirus-Like Species. <i>Journal of Molecular Biology</i> , 2014, 426, 1452-1468.	2.0	25
82	A Single Residue in Ebola Virus Receptor NPC1 Influences Cellular Host Range in Reptiles. <i>MSphere</i> , 2016, 1, .	1.3	25
83	Synthetic Antibodies with a Human Framework That Protect Mice from Lethal Sudan Ebolavirus Challenge. <i>ACS Chemical Biology</i> , 2014, 9, 2263-2273.	1.6	23
84	Development of an antibody cocktail for treatment of Sudan virus infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3768-3778.	3.3	23
85	VSV-Displayed HIV-1 Envelope Identifies Broadly Neutralizing Antibodies Class-Switched to IgG and IgA. <i>Cell Host and Microbe</i> , 2020, 27, 963-975.e5.	5.1	23
86	Implementation of Objective PASC-Derived Taxon Demarcation Criteria for Official Classification of Filoviruses. <i>Viruses</i> , 2017, 9, 106.	1.5	22
87	Vesicular Stomatitis Virus-Based Vaccines Provide Cross-Protection against Andes and Sin Nombre Viruses. <i>Viruses</i> , 2019, 11, 645.	1.5	18
88	Possibility and Challenges of Conversion of Current Virus Species Names to Linnaean Binomials. <i>Systematic Biology</i> , 2016, 66, syw096.	2.7	17
89	Real-Time Analysis of Individual Ebola Virus Glycoproteins Reveals Pre-Fusion, Entry-Relevant Conformational Dynamics. <i>Viruses</i> , 2020, 12, 103.	1.5	16
90	Human antibody recognizing a quaternary epitope in the Puumala virus glycoprotein provides broad protection against orthohantaviruses. <i>Science Translational Medicine</i> , 2022, 14, eabl5399.	5.8	16

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91	Endocytic Pathways Involved in Filovirus Entry: Advances, Implications and Future Directions. <i>Viruses</i> , 2012, 4, 3647-3664.	1.5	15
92	Structural basis of synergistic neutralization of Crimean-Congo hemorrhagic fever virus by human antibodies. <i>Science</i> , 2022, 375, 104-109.	6.0	15
93	Tracing Transmission of Sin Nombre Virus and Discovery of Infection in Multiple Rodent Species. <i>Journal of Virology</i> , 2021, 95, e0153421.	1.5	14
94	Genetic depletion studies inform receptor usage by virulent hantaviruses in human endothelial cells. <i>ELife</i> , 2021, 10, .	2.8	13
95	HVEM signaling promotes protective antibody-dependent cellular cytotoxicity (ADCC) vaccine responses to herpes simplex viruses. <i>Science Immunology</i> , 2020, 5, .	5.6	12
96	Near-germline human monoclonal antibodies neutralize and protect against multiple arthritogenic alphaviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	12
97	A Hyperstabilizing Mutation in the Base of the Ebola Virus Glycoprotein Acts at Multiple Steps To Abrogate Viral Entry. <i>MBio</i> , 2019, 10, .	1.8	11
98	Single-Dilution COVID-19 Antibody Test with Qualitative and Quantitative Readouts. <i>MSphere</i> , 2021, 6, .	1.3	11
99	Genotype-specific features reduce the susceptibility of South American yellow fever virus strains to vaccine-induced antibodies. <i>Cell Host and Microbe</i> , 2022, 30, 248-259.e6.	5.1	11
100	Reovirus infection is regulated by NPC1 and endosomal cholesterol homeostasis. <i>PLoS Pathogens</i> , 2022, 18, e1010322.	2.1	11
101	Longitudinally monitored immune biomarkers predict the timing of COVID-19 outcomes. <i>PLoS Computational Biology</i> , 2022, 18, e1009778.	1.5	10
102	A Glycoprotein Mutation That Emerged during the 2013–2016 Ebola Virus Epidemic Alters Proteolysis and Accelerates Membrane Fusion. <i>MBio</i> , 2021, 12, .	1.8	9
103	Conformational Properties of Peptides Corresponding to the Ebolavirus GP2 Membrane-Proximal External Region in the Presence of Micelle-Forming Surfactants and Lipids. <i>Biochemistry</i> , 2013, 52, 3393-3404.	1.2	8
104	Human, Nonhuman Primate, and Bat Cells Are Broadly Susceptible to Tibrovirus Particle Cell Entry. <i>Frontiers in Microbiology</i> , 2019, 10, 856.	1.5	8
105	Meeting report: Eleventh International Conference on Hantaviruses. <i>Antiviral Research</i> , 2020, 176, 104733.	1.9	8
106	Design and evaluation of bi- and trispecific antibodies targeting multiple filovirus glycoproteins. <i>Journal of Biological Chemistry</i> , 2018, 293, 6201-6211.	1.6	7
107	Oral Vaccination With Recombinant Vesicular Stomatitis Virus Expressing Sin Nombre Virus Glycoprotein Prevents Sin Nombre Virus Transmission in Deer Mice. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 333.	1.8	7
108	A Virion-Based Assay for Glycoprotein Thermostability Reveals Key Determinants of Filovirus Entry and Its Inhibition. <i>Journal of Virology</i> , 2020, 94, .	1.5	7

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109	Generation of plasma cells and CD27 ⁺ IgD ⁺ B cells during hantavirus infection is associated with distinct pathological findings. <i>Clinical and Translational Immunology</i> , 2021, 10, e1313.	1.7	7
110	MAVERICC: Marker-free Vaccinia Virus Engineering of Recombinants through in vitro CRISPR/Cas9 Cleavage. <i>Journal of Molecular Biology</i> , 2021, 433, 166896.	2.0	7
111	Direct Intracellular Visualization of Ebola Virus-Receptor Interaction by <i>In Situ</i> Proximity Ligation. <i>MBio</i> , 2021, 12, .	1.8	6
112	Prominent Neutralizing Antibody Response Targeting the Ebolavirus Glycoprotein Subunit Interface Elicited by Immunization. <i>Journal of Virology</i> , 2021, 95, .	1.5	6
113	A Powassan virus domain III nanoparticle immunogen elicits neutralizing and protective antibodies in mice. <i>PLoS Pathogens</i> , 2022, 18, e1010573.	2.1	6
114	Two Distinct Lysosomal Targeting Strategies Afford Trojan Horse Antibodies With Pan-Filovirus Activity. <i>Frontiers in Immunology</i> , 2021, 12, 729851.	2.2	5
115	FILOVIRUS ENTRY INTO SUSCEPTIBLE CELLS. , 2015, , 487-514.		4
116	How to turn competitors into collaborators. <i>Nature</i> , 2017, 541, 283-285.	13.7	3
117	Ebola virus, but not Marburg virus, replicates efficiently and without required adaptation in snake cells. <i>Virus Evolution</i> , 2018, 4, vey034.	2.2	3
118	Exploiting Pre-Existing CD4+ T Cell Help from Bacille Calmette-Guérin Vaccination to Improve Antiviral Antibody Responses. <i>Journal of Immunology</i> , 2020, 205, 425-437.	0.4	3
119	Mechanistic and Fc requirements for inhibition of Sudan virus entry and in vivo protection by a synthetic antibody. <i>Immunology Letters</i> , 2017, 190, 289-295.	1.1	2
120	Approaching the Interpretation of Discordances in SARS-CoV-2 Testing. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofab144.	0.4	2
121	Structural basis of synergistic neutralization of Crimean-Congo hemorrhagic fever virus by human antibodies. <i>Science</i> , 2021, , eabl6502.	6.0	2
122	Candidate medical countermeasures targeting Ebola virus cell entry. <i>Future Virology</i> , 2017, 12, 119-140.	0.9	1
123	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Qualitative Immunoglobulin G Assays: The Value of Numeric Reporting. <i>Archives of Pathology and Laboratory Medicine</i> , 2021, 145, 929-936.	1.2	1
124	Neutralizing Antibodies against Crimean-Congo Hemorrhagic Fever Virus Derived from a Human Survivor. <i>Proceedings (mdpi)</i> , 2020, 50, .	0.2	0
125	Mapping the Interface between New World Hantaviruses and Their Receptor, PCDH1. <i>Proceedings (mdpi)</i> , 2020, 50, .	0.2	0
126	Structural Basis of Neutralization by Human Antibodies Targeting Crimean-Congo Hemorrhagic Fever Virus Glycoprotein Gc. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

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127	Title is missing!. , 2020, 18, e3000626.		0
128	Title is missing!. , 2020, 18, e3000626.		0
129	Title is missing!. , 2020, 18, e3000626.		0
130	Title is missing!. , 2020, 18, e3000626.		0
131	Title is missing!. , 2020, 18, e3000626.		0
132	Title is missing!. , 2020, 18, e3000626.		0