

Berend Jan Bosch

List of Publications by Year in Descending Order

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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.

104
papers

12,419
citations

50
h-index

106
g-index

106
ext. papers

14,797
ext. citations

10.9
avg, IF

6.43
L-index

#	Paper	IF	Citations
104	Suitability of transiently expressed antibodies for clinical studies: product quality consistency at different production scales.. <i>MAbs</i> , 2022 , 14, 2052228	6.6	0
103	An ACE2-blocking antibody confers broad neutralization and protection against Omicron and other SARS-CoV-2 variants of concern.. <i>Science Immunology</i> , 2022 , eabp9312	28	5
102	An alphavirus replicon-based vaccine expressing a stabilized Spike antigen induces protective immunity and prevents transmission of SARS-CoV-2 between cats. <i>Npj Vaccines</i> , 2021 , 6, 122	9.5	3
101	Zoonoses Anticipation and Preparedness Initiative, stakeholders conference, February 4 & 5, 2021. <i>Biologicals</i> , 2021 , 74, 10-15	1.8	
100	Structural basis for broad coronavirus neutralization 2021 ,		14
99	A conserved immunogenic and vulnerable site on the coronavirus spike protein delineated by cross-reactive monoclonal antibodies. <i>Nature Communications</i> , 2021 , 12, 1715	17.4	60
98	Serologic Screening of Severe Acute Respiratory Syndrome Coronavirus 2 Infection in Cats and Dogs during First Coronavirus Disease Wave, the Netherlands. <i>Emerging Infectious Diseases</i> , 2021 , 27, 1362-1370	10.2	22
97	Structural basis for broad coronavirus neutralization. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 478-486	17.6	65
96	Structural insights into the cross-neutralization of SARS-CoV and SARS-CoV-2 by the human monoclonal antibody 47D11. <i>Science Advances</i> , 2021 , 7,	14.3	19
95	SARS-CoV-2 Neutralizing Human Antibodies Protect Against Lower Respiratory Tract Disease in a Hamster Model. <i>Journal of Infectious Diseases</i> , 2021 , 223, 2020-2028	7	16
94	Changes in SARS-CoV-2 Spike versus Nucleoprotein Antibody Responses Impact the Estimates of Infections in Population-Based Seroprevalence Studies. <i>Journal of Virology</i> , 2021 , 95,	6.6	86
93	Dynamics of antibodies to SARS-CoV-2 in convalescent plasma donors. <i>Clinical and Translational Immunology</i> , 2021 , 10, e1285	6.8	12
92	A plug-and-play platform of ratiometric bioluminescent sensors for homogeneous immunoassays. <i>Nature Communications</i> , 2021 , 12, 4586	17.4	9
91	A highly potent antibody effective against SARS-CoV-2 variants of concern. <i>Cell Reports</i> , 2021 , 37, 109814	10.6	9
90	SARS-CoV-2 mucosal antibody development and persistence and their relation to viral load and COVID-19 symptoms. <i>Nature Communications</i> , 2021 , 12, 5621	17.4	9
89	Older adults lack SARS CoV-2 cross-reactive T lymphocytes directed to human coronaviruses OC43 and NL63. <i>Scientific Reports</i> , 2020 , 10, 21447	4.9	31
88	A human monoclonal antibody blocking SARS-CoV-2 infection. <i>Nature Communications</i> , 2020 , 11, 2251	17.4	685

87	Particulate multivalent presentation of the receptor binding domain induces protective immune responses against MERS-CoV. <i>Emerging Microbes and Infections</i> , 2020 , 9, 1080-1091	18.9	9
86	Severe Acute Respiratory Syndrome Coronavirus 2-Specific Antibody Responses in Coronavirus Disease Patients. <i>Emerging Infectious Diseases</i> , 2020 , 26, 1478-1488	10.2	1055
85	Serologic Detection of Middle East Respiratory Syndrome Coronavirus Functional Antibodies. <i>Emerging Infectious Diseases</i> , 2020 , 26, 1024-1027	10.2	13
84	Coronavirus hemagglutinin-esterase and spike proteins coevolve for functional balance and optimal virion avidity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 25759-25770	11.5	24
83	Development of a SARS-CoV-2 Total Antibody Assay and the Dynamics of Antibody Response over Time in Hospitalized and Nonhospitalized Patients with COVID-19. <i>Journal of Immunology</i> , 2020 , 205, 3491-3499	5.3	26
82	Accurate serology for SARS-CoV-2 and common human coronaviruses using a multiplex approach. <i>Emerging Microbes and Infections</i> , 2020 , 9, 1965-1973	18.9	26
81	Sensitive and Specific Detection of Low-Level Antibody Responses in Mild Middle East Respiratory Syndrome Coronavirus Infections. <i>Emerging Infectious Diseases</i> , 2019 , 25, 1868-1877	10.2	65
80	Human coronaviruses OC43 and HKU1 bind to 9-acetylated sialic acids via a conserved receptor-binding site in spike protein domain A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2681-2690	11.5	242
79	Species-Specific Colocalization of Middle East Respiratory Syndrome Coronavirus Attachment and Entry Receptors. <i>Journal of Virology</i> , 2019 , 93,	6.6	27
78	Structural basis for human coronavirus attachment to sialic acid receptors. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 481-489	17.6	341
77	Towards a solution to MERS: protective human monoclonal antibodies targeting different domains and functions of the MERS-coronavirus spike glycoprotein. <i>Emerging Microbes and Infections</i> , 2019 , 8, 516-530	18.9	86
76	Serological Screening for Coronavirus Infections in Cats. <i>Viruses</i> , 2019 , 11,	6.2	17
75	Structural Studies of Coronavirus Fusion Proteins. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1300-1301	0.5	3
74	Blocking transmission of Middle East respiratory syndrome coronavirus (MERS-CoV) in llamas by vaccination with a recombinant spike protein. <i>Emerging Microbes and Infections</i> , 2019 , 8, 1593-1603	18.9	19
73	Structures of MERS-CoV spike glycoprotein in complex with sialoside attachment receptors. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 1151-1157	17.6	161
72	Development and Validation of a S1 Protein-Based ELISA for the Specific Detection of Antibodies against Equine Coronavirus. <i>Viruses</i> , 2019 , 11,	6.2	4
71	Chimeric camel/human heavy-chain antibodies protect against MERS-CoV infection. <i>Science Advances</i> , 2018 , 4, eaas9667	14.3	55
70	Porcine epidemic diarrhea virus (PEDV) introduction into a naive Dutch pig population in 2014. <i>Veterinary Microbiology</i> , 2018 , 221, 13-18	3.3	9

69	Glycan Shield and Fusion Activation of a Deltacoronavirus Spike Glycoprotein Fine-Tuned for Enteric Infections. <i>Journal of Virology</i> , 2018 , 92,	6.6	92
68	Broad receptor engagement of an emerging global coronavirus may potentiate its diverse cross-species transmissibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5135-E5143	11.5	129
67	Aminopeptidase N is not required for porcine epidemic diarrhea virus cell entry. <i>Virus Research</i> , 2017 , 235, 6-13	6.4	47
66	Cell Attachment Domains of the Porcine Epidemic Diarrhea Virus Spike Protein Are Key Targets of Neutralizing Antibodies. <i>Journal of Virology</i> , 2017 , 91,	6.6	67
65	A glycerophospholipid-specific pocket in the RVFV class II fusion protein drives target membrane insertion. <i>Science</i> , 2017 , 358, 663-667	33.3	35
64	Tectonic conformational changes of a coronavirus spike glycoprotein promote membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11157-11162	11.5	351
63	Identification of sialic acid-binding function for the Middle East respiratory syndrome coronavirus spike glycoprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8508-E8517	11.5	216
62	Crucial steps in the structure determination of a coronavirus spike glycoprotein using cryo-electron microscopy. <i>Protein Science</i> , 2017 , 26, 113-121	6.3	28
61	Glycan shield and epitope masking of a coronavirus spike protein observed by cryo-electron microscopy. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 899-905	17.6	252
60	Cellular entry of the porcine epidemic diarrhea virus. <i>Virus Research</i> , 2016 , 226, 117-127	6.4	77
59	Cryo-electron microscopy structure of a coronavirus spike glycoprotein trimer. <i>Nature</i> , 2016 , 531, 114-117	17.4	354
58	Budded baculovirus particle structure revisited. <i>Journal of Invertebrate Pathology</i> , 2016 , 134, 15-22	2.6	23
57	MERS-CoV Infection of Alpaca in a Region Where MERS-CoV is Endemic. <i>Emerging Infectious Diseases</i> , 2016 , 22, 1129-31	10.2	53
56	Occupational Exposure to Dromedaries and Risk for MERS-CoV Infection, Qatar, 2013-2014. <i>Emerging Infectious Diseases</i> , 2015 , 21, 1422-5	10.2	63
55	A Single Point Mutation Creating a Furin Cleavage Site in the Spike Protein Renders Porcine Epidemic Diarrhea Coronavirus Trypsin Independent for Cell Entry and Fusion. <i>Journal of Virology</i> , 2015 , 89, 8077-81	6.6	23
54	Crimean-Congo Hemorrhagic Fever Virus Subunit Vaccines Induce High Levels of Neutralizing Antibodies But No Protection in STAT1 Knockout Mice. <i>Vector-Borne and Zoonotic Diseases</i> , 2015 , 15, 759-64	2.4	38
53	ATP1A1-mediated Src signaling inhibits coronavirus entry into host cells. <i>Journal of Virology</i> , 2015 , 89, 4434-48	6.6	83
52	Identification of protein receptors for coronaviruses by mass spectrometry. <i>Methods in Molecular Biology</i> , 2015 , 1282, 165-82	1.4	10

51	Transmission of MERS-coronavirus in household contacts. <i>New England Journal of Medicine</i> , 2014 , 371, 828-35	59.2	288
50	Adenosine deaminase acts as a natural antagonist for dipeptidyl peptidase 4-mediated entry of the Middle East respiratory syndrome coronavirus. <i>Journal of Virology</i> , 2014 , 88, 1834-8	6.6	124
49	Comparative efficacy of two next-generation Rift Valley fever vaccines. <i>Vaccine</i> , 2014 , 32, 4901-8	4.1	20
48	A recombinant rabies vaccine expressing the trimeric form of the glycoprotein confers enhanced immunogenicity and protection in outbred mice. <i>Vaccine</i> , 2014 , 32, 4644-50	4.1	23
47	Proteolytic activation of the porcine epidemic diarrhea coronavirus spike fusion protein by trypsin in cell culture. <i>Journal of Virology</i> , 2014 , 88, 7952-61	6.6	79
46	Nidovirus Entry into Cells 2014 , 157-178		5
45	Coronavirus cell entry occurs through the endo-/lysosomal pathway in a proteolysis-dependent manner. <i>PLoS Pathogens</i> , 2014 , 10, e1004502	7.6	261
44	Identification and characterization of a proteolytically primed form of the murine coronavirus spike proteins after fusion with the target cell. <i>Journal of Virology</i> , 2014 , 88, 4943-52	6.6	24
43	Antibodies against MERS coronavirus in dromedary camels, United Arab Emirates, 2003 and 2013. <i>Emerging Infectious Diseases</i> , 2014 , 20, 552-9	10.2	187
42	Human infection with MERS coronavirus after exposure to infected camels, Saudi Arabia, 2013. <i>Emerging Infectious Diseases</i> , 2014 , 20, 1012-5	10.2	260
41	Geographic distribution of MERS coronavirus among dromedary camels, Africa. <i>Emerging Infectious Diseases</i> , 2014 , 20, 1370-4	10.2	145
40	Antibodies against MERS coronavirus in dromedary camels, Kenya, 1992-2013. <i>Emerging Infectious Diseases</i> , 2014 , 20, 1319-22	10.2	156
39	MERS coronavirus neutralizing antibodies in camels, Eastern Africa, 1983-1997. <i>Emerging Infectious Diseases</i> , 2014 , 20, 2093-5	10.2	206
38	Membrane ectopeptidases targeted by human coronaviruses. <i>Current Opinion in Virology</i> , 2014 , 6, 55-60	7.5	28
37	Dissecting virus entry: replication-independent analysis of virus binding, internalization, and penetration using minimal complementation of β galactosidase. <i>PLoS ONE</i> , 2014 , 9, e101762	3.7	9
36	Middle East respiratory syndrome coronavirus neutralising serum antibodies in dromedary camels: a comparative serological study. <i>Lancet Infectious Diseases</i> , 2013 , 13, 859-66	25.5	523
35	The receptor binding domain of the new Middle East respiratory syndrome coronavirus maps to a 231-residue region in the spike protein that efficiently elicits neutralizing antibodies. <i>Journal of Virology</i> , 2013 , 87, 9379-83	6.6	171
34	Spiking the MERS-coronavirus receptor. <i>Cell Research</i> , 2013 , 23, 1069-70	24.7	21

33	Novel polymeric inhibitors of HCoV-NL63. <i>Antiviral Research</i> , 2013 , 97, 112-21	10.8	50
32	Dipeptidyl peptidase 4 is a functional receptor for the emerging human coronavirus-EMC. <i>Nature</i> , 2013 , 495, 251-4	50.4	1362
31	Manipulation of the porcine epidemic diarrhea virus genome using targeted RNA recombination. <i>PLoS ONE</i> , 2013 , 8, e69997	3.7	47
30	Inhibition of Middle East respiratory syndrome coronavirus infection by anti-CD26 monoclonal antibody. <i>Journal of Virology</i> , 2013 , 87, 13892-9	6.6	72
29	Middle East Respiratory Syndrome coronavirus (MERS-CoV) serology in major livestock species in an affected region in Jordan, June to September 2013. <i>Eurosurveillance</i> , 2013 , 18, 20662	19.8	154
28	Specific serology for emerging human coronaviruses by protein microarray. <i>Eurosurveillance</i> , 2013 , 18, 20441	19.8	76
27	Quantitative and qualitative flow cytometric analysis of nanosized cell-derived membrane vesicles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012 , 8, 712-20	6	189
26	Heparan sulfate facilitates Rift Valley fever virus entry into the cell. <i>Journal of Virology</i> , 2012 , 86, 13767-76	6.6	57
25	Acid-activated structural reorganization of the Rift Valley fever virus Gc fusion protein. <i>Journal of Virology</i> , 2012 , 86, 13642-52	6.6	49
24	Recombinant soluble, multimeric HA and NA exhibit distinctive types of protection against pandemic swine-origin 2009 A(H1N1) influenza virus infection in ferrets. <i>Journal of Virology</i> , 2010 , 84, 10366-74	6.6	80
23	Cryo-electron tomography of mouse hepatitis virus: Insights into the structure of the coronavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 582-7	11.5	191
22	Coronavirus escape from heptad repeat 2 (HR2)-derived peptide entry inhibition as a result of mutations in the HR1 domain of the spike fusion protein. <i>Journal of Virology</i> , 2008 , 82, 2580-5	6.6	21
21	Cathepsin L functionally cleaves the severe acute respiratory syndrome coronavirus class I fusion protein upstream of rather than adjacent to the fusion peptide. <i>Journal of Virology</i> , 2008 , 82, 8887-90	6.6	206
20	The carbohydrate-binding plant lectins and the non-peptidic antibiotic pradimicin A target the glycans of the coronavirus envelope glycoproteins. <i>Journal of Antimicrobial Chemotherapy</i> , 2007 , 60, 741-9	5.1	42
19	SARS coronavirus, but not human coronavirus NL63, utilizes cathepsin L to infect ACE2-expressing cells. <i>Journal of Biological Chemistry</i> , 2006 , 281, 3198-203	5.4	261
18	Inhibition of human coronavirus NL63 infection at early stages of the replication cycle. <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 2000-8	5.9	95
17	Cooperative involvement of the S1 and S2 subunits of the murine coronavirus spike protein in receptor binding and extended host range. <i>Journal of Virology</i> , 2006 , 80, 10909-18	6.6	41
16	Spike protein assembly into the coronavirus: exploring the limits of its sequence requirements. <i>Virology</i> , 2005 , 334, 306-18	3.6	43

15	Targeting non-human coronaviruses to human cancer cells using a bispecific single-chain antibody. <i>Gene Therapy</i> , 2005 , 12, 1394-404	4	40
14	Soluble receptor-mediated targeting of mouse hepatitis coronavirus to the human epidermal growth factor receptor. <i>Journal of Virology</i> , 2005 , 79, 15314-22	6.6	12
13	Murine coronavirus with an extended host range uses heparan sulfate as an entry receptor. <i>Journal of Virology</i> , 2005 , 79, 14451-6	6.6	98
12	Severe acute respiratory syndrome coronavirus (SARS-CoV) infection inhibition using spike protein heptad repeat-derived peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8455-60	11.5	291
11	Cleavage inhibition of the murine coronavirus spike protein by a furin-like enzyme affects cell-cell but not virus-cell fusion. <i>Journal of Virology</i> , 2004 , 78, 6048-54	6.6	116
10	Coronavirus spike glycoprotein, extended at the carboxy terminus with green fluorescent protein, is assembly competent. <i>Journal of Virology</i> , 2004 , 78, 7369-78	6.6	21
9	The coronavirus spike protein is a class I virus fusion protein: structural and functional characterization of the fusion core complex. <i>Journal of Virology</i> , 2003 , 77, 8801-11	6.6	962
8	A human monoclonal antibody targeting a conserved pocket in the SARS-CoV-2 receptor-binding domain core		1
7	Changes in SARS-CoV-2 Antibody Responses Impact the Estimates of Infections in Population-Based Seroprevalence Studies		15
6	Homologous and heterologous antibodies to coronavirus 229E, NL63, OC43, HKU1, SARS, MERS and SARS-CoV-2 antigens in an age stratified cross-sectional serosurvey in a large tertiary hospital in The Netherlands		10
5	SARS-CoV-2 neutralizing human antibodies protect against lower respiratory tract disease in a hamster model		16
4	Highly potent anti-SARS-CoV-2 multivalent DARPIn therapeutic candidates		9
3	Isolation of cross-reactive monoclonal antibodies against divergent human coronaviruses that delineate a conserved and vulnerable site on the spike protein		9
2	RAPPID: a platform of ratiometric bioluminescent sensors for homogeneous immunoassays		2
1	Elevated mucosal antibody responses against SARS-CoV-2 are correlated with lower viral load and faster decrease in systemic COVID-19 symptoms		2