

# Berend Jan Bosch

## List of Publications by Citations

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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	Dipeptidyl peptidase 4 is a functional receptor for the emerging human coronavirus-EMC. <i>Nature</i> , <b>2013</b> , 495, 251-4	50.4	1362
103	Severe Acute Respiratory Syndrome Coronavirus 2-Specific Antibody Responses in Coronavirus Disease Patients. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26, 1478-1488	10.2	1055
102	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> , <b>2003</b> , 77, 8801-11	6.6	962
101	A human monoclonal antibody blocking SARS-CoV-2 infection. <i>Nature Communications</i> , <b>2020</b> , 11, 2251	17.4	685
100	Middle East respiratory syndrome coronavirus neutralising serum antibodies in dromedary camels: a comparative serological study. <i>Lancet Infectious Diseases</i> , <b>2013</b> , 13, 859-66	25.5	523
99	Cryo-electron microscopy structure of a coronavirus spike glycoprotein trimer. <i>Nature</i> , <b>2016</b> , 531, 114-115	50.4	354
98	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> , <b>2017</b> , 114, 11157-11162	11.5	351
97	Structural basis for human coronavirus attachment to sialic acid receptors. <i>Nature Structural and Molecular Biology</i> , <b>2019</b> , 26, 481-489	17.6	341
96	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> , <b>2004</b> , 101, 8455-60	11.5	291
95	Transmission of MERS-coronavirus in household contacts. <i>New England Journal of Medicine</i> , <b>2014</b> , 371, 828-35	59.2	288
94	Coronavirus cell entry occurs through the endo-/lysosomal pathway in a proteolysis-dependent manner. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004502	7.6	261
93	SARS coronavirus, but not human coronavirus NL63, utilizes cathepsin L to infect ACE2-expressing cells. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 3198-203	5.4	261
92	Human infection with MERS coronavirus after exposure to infected camels, Saudi Arabia, 2013. <i>Emerging Infectious Diseases</i> , <b>2014</b> , 20, 1012-5	10.2	260
91	Glycan shield and epitope masking of a coronavirus spike protein observed by cryo-electron microscopy. <i>Nature Structural and Molecular Biology</i> , <b>2016</b> , 23, 899-905	17.6	252
90	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> , <b>2019</b> , 116, 2681-2690	11.5	242
89	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> , <b>2017</b> , 114, E8508-E8517	11.5	216
88	MERS coronavirus neutralizing antibodies in camels, Eastern Africa, 1983-1997. <i>Emerging Infectious Diseases</i> , <b>2014</b> , 20, 2093-5	10.2	206

87	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> , <b>2008</b> , 82, 8887-90	6.6	206
86	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> , <b>2009</b> , 106, 582-7	11.5	191
85	Quantitative and qualitative flow cytometric analysis of nanosized cell-derived membrane vesicles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 712-20	6	189
84	Antibodies against MERS coronavirus in dromedary camels, United Arab Emirates, 2003 and 2013. <i>Emerging Infectious Diseases</i> , <b>2014</b> , 20, 552-9	10.2	187
83	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> , <b>2013</b> , 87, 9379-83	6.6	171
82	Structures of MERS-CoV spike glycoprotein in complex with sialoside attachment receptors. <i>Nature Structural and Molecular Biology</i> , <b>2019</b> , 26, 1151-1157	17.6	161
81	Antibodies against MERS coronavirus in dromedary camels, Kenya, 1992-2013. <i>Emerging Infectious Diseases</i> , <b>2014</b> , 20, 1319-22	10.2	156
80	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> , <b>2013</b> , 18, 20662	19.8	154
79	Geographic distribution of MERS coronavirus among dromedary camels, Africa. <i>Emerging Infectious Diseases</i> , <b>2014</b> , 20, 1370-4	10.2	145
78	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> , <b>2018</b> , 115, E5135-E5143	11.5	129
77	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> , <b>2014</b> , 88, 1834-8	6.6	124
76	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> , <b>2004</b> , 78, 6048-54	6.6	116
75	Murine coronavirus with an extended host range uses heparan sulfate as an entry receptor. <i>Journal of Virology</i> , <b>2005</b> , 79, 14451-6	6.6	98
74	Inhibition of human coronavirus NL63 infection at early stages of the replication cycle. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2006</b> , 50, 2000-8	5.9	95
73	Glycan Shield and Fusion Activation of a Deltacoronavirus Spike Glycoprotein Fine-Tuned for Enteric Infections. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	92
72	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> , <b>2019</b> , 8, 516-530	18.9	86
71	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> , <b>2021</b> , 95,	6.6	86
70	ATP1A1-mediated Src signaling inhibits coronavirus entry into host cells. <i>Journal of Virology</i> , <b>2015</b> , 89, 4434-48	6.6	83

69	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> , <b>2010</b> , 84, 10366-74	6.6	80
68	Proteolytic activation of the porcine epidemic diarrhea coronavirus spike fusion protein by trypsin in cell culture. <i>Journal of Virology</i> , <b>2014</b> , 88, 7952-61	6.6	79
67	Cellular entry of the porcine epidemic diarrhea virus. <i>Virus Research</i> , <b>2016</b> , 226, 117-127	6.4	77
66	Specific serology for emerging human coronaviruses by protein microarray. <i>Eurosurveillance</i> , <b>2013</b> , 18, 20441	19.8	76
65	Inhibition of Middle East respiratory syndrome coronavirus infection by anti-CD26 monoclonal antibody. <i>Journal of Virology</i> , <b>2013</b> , 87, 13892-9	6.6	72
64	Cell Attachment Domains of the Porcine Epidemic Diarrhea Virus Spike Protein Are Key Targets of Neutralizing Antibodies. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	67
63	Sensitive and Specific Detection of Low-Level Antibody Responses in Mild Middle East Respiratory Syndrome Coronavirus Infections. <i>Emerging Infectious Diseases</i> , <b>2019</b> , 25, 1868-1877	10.2	65
62	Structural basis for broad coronavirus neutralization. <i>Nature Structural and Molecular Biology</i> , <b>2021</b> , 28, 478-486	17.6	65
61	Occupational Exposure to Dromedaries and Risk for MERS-CoV Infection, Qatar, 2013-2014. <i>Emerging Infectious Diseases</i> , <b>2015</b> , 21, 1422-5	10.2	63
60	A conserved immunogenic and vulnerable site on the coronavirus spike protein delineated by cross-reactive monoclonal antibodies. <i>Nature Communications</i> , <b>2021</b> , 12, 1715	17.4	60
59	Heparan sulfate facilitates Rift Valley fever virus entry into the cell. <i>Journal of Virology</i> , <b>2012</b> , 86, 13767-76	6.6	57
58	Chimeric camel/human heavy-chain antibodies protect against MERS-CoV infection. <i>Science Advances</i> , <b>2018</b> , 4, eaas9667	14.3	55
57	MERS-CoV Infection of Alpaca in a Region Where MERS-CoV is Endemic. <i>Emerging Infectious Diseases</i> , <b>2016</b> , 22, 1129-31	10.2	53
56	Novel polymeric inhibitors of HCoV-NL63. <i>Antiviral Research</i> , <b>2013</b> , 97, 112-21	10.8	50
55	Acid-activated structural reorganization of the Rift Valley fever virus Gc fusion protein. <i>Journal of Virology</i> , <b>2012</b> , 86, 13642-52	6.6	49
54	Aminopeptidase N is not required for porcine epidemic diarrhea virus cell entry. <i>Virus Research</i> , <b>2017</b> , 235, 6-13	6.4	47
53	Manipulation of the porcine epidemic diarrhea virus genome using targeted RNA recombination. <i>PLoS ONE</i> , <b>2013</b> , 8, e69997	3.7	47
52	Spike protein assembly into the coronavirus: exploring the limits of its sequence requirements. <i>Virology</i> , <b>2005</b> , 334, 306-18	3.6	43

51	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> , <b>2007</b> , 60, 741-9	5.1	42
50	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> , <b>2006</b> , 80, 10909-18	6.6	41
49	Targeting non-human coronaviruses to human cancer cells using a bispecific single-chain antibody. <i>Gene Therapy</i> , <b>2005</b> , 12, 1394-404	4	40
48	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> , <b>2015</b> , 15, 759-64	2.4	38
47	A glycerophospholipid-specific pocket in the RVFV class II fusion protein drives target membrane insertion. <i>Science</i> , <b>2017</b> , 358, 663-667	33.3	35
46	Older adults lack SARS CoV-2 cross-reactive T lymphocytes directed to human coronaviruses OC43 and NL63. <i>Scientific Reports</i> , <b>2020</b> , 10, 21447	4.9	31
45	Crucial steps in the structure determination of a coronavirus spike glycoprotein using cryo-electron microscopy. <i>Protein Science</i> , <b>2017</b> , 26, 113-121	6.3	28
44	Membrane ectopeptidases targeted by human coronaviruses. <i>Current Opinion in Virology</i> , <b>2014</b> , 6, 55-60	7.5	28
43	Species-Specific Colocalization of Middle East Respiratory Syndrome Coronavirus Attachment and Entry Receptors. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	27
42	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> , <b>2020</b> , 205, 3491-3499	5.3	26
41	Accurate serology for SARS-CoV-2 and common human coronaviruses using a multiplex approach. <i>Emerging Microbes and Infections</i> , <b>2020</b> , 9, 1965-1973	18.9	26
40	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> , <b>2014</b> , 88, 4943-52	6.6	24
39	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> , <b>2020</b> , 117, 25759-25770	11.5	24
38	Budded baculovirus particle structure revisited. <i>Journal of Invertebrate Pathology</i> , <b>2016</b> , 134, 15-22	2.6	23
37	A recombinant rabies vaccine expressing the trimeric form of the glycoprotein confers enhanced immunogenicity and protection in outbred mice. <i>Vaccine</i> , <b>2014</b> , 32, 4644-50	4.1	23
36	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> , <b>2015</b> , 89, 8077-81	6.6	23
35	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> , <b>2021</b> , 27, 1362-1370	10.2	22
34	Spiking the MERS-coronavirus receptor. <i>Cell Research</i> , <b>2013</b> , 23, 1069-70	24.7	21

33	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> , <b>2008</b> , 82, 2580-5	6.6	21
32	Coronavirus spike glycoprotein, extended at the carboxy terminus with green fluorescent protein, is assembly competent. <i>Journal of Virology</i> , <b>2004</b> , 78, 7369-78	6.6	21
31	Comparative efficacy of two next-generation Rift Valley fever vaccines. <i>Vaccine</i> , <b>2014</b> , 32, 4901-8	4.1	20
30	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> , <b>2019</b> , 8, 1593-1603	18.9	19
29	Structural insights into the cross-neutralization of SARS-CoV and SARS-CoV-2 by the human monoclonal antibody 47D11. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	19
28	Serological Screening for Coronavirus Infections in Cats. <i>Viruses</i> , <b>2019</b> , 11,	6.2	17
27	SARS-CoV-2 neutralizing human antibodies protect against lower respiratory tract disease in a hamster model		16
26	SARS-CoV-2 Neutralizing Human Antibodies Protect Against Lower Respiratory Tract Disease in a Hamster Model. <i>Journal of Infectious Diseases</i> , <b>2021</b> , 223, 2020-2028	7	16
25	Changes in SARS-CoV-2 Antibody Responses Impact the Estimates of Infections in Population-Based Seroprevalence Studies		15
24	Structural basis for broad coronavirus neutralization <b>2021</b> ,		14
23	Serologic Detection of Middle East Respiratory Syndrome Coronavirus Functional Antibodies. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26, 1024-1027	10.2	13
22	Soluble receptor-mediated targeting of mouse hepatitis coronavirus to the human epidermal growth factor receptor. <i>Journal of Virology</i> , <b>2005</b> , 79, 15314-22	6.6	12
21	Dynamics of antibodies to SARS-CoV-2 in convalescent plasma donors. <i>Clinical and Translational Immunology</i> , <b>2021</b> , 10, e1285	6.8	12
20	Identification of protein receptors for coronaviruses by mass spectrometry. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1282, 165-82	1.4	10
19	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
18	Particulate multivalent presentation of the receptor binding domain induces protective immune responses against MERS-CoV. <i>Emerging Microbes and Infections</i> , <b>2020</b> , 9, 1080-1091	18.9	9
17	Porcine epidemic diarrhea virus (PEDV) introduction into a naive Dutch pig population in 2014. <i>Veterinary Microbiology</i> , <b>2018</b> , 221, 13-18	3.3	9
16	Dissecting virus entry: replication-independent analysis of virus binding, internalization, and penetration using minimal complementation of $\beta$ -galactosidase. <i>PLoS ONE</i> , <b>2014</b> , 9, e101762	3.7	9

15	Highly potent anti-SARS-CoV-2 multivalent DARPin therapeutic candidates		9
14	Isolation of cross-reactive monoclonal antibodies against divergent human coronaviruses that delineate a conserved and vulnerable site on the spike protein		9
13	A plug-and-play platform of ratiometric bioluminescent sensors for homogeneous immunoassays. <i>Nature Communications</i> , <b>2021</b> , 12, 4586	17.4	9
12	A highly potent antibody effective against SARS-CoV-2 variants of concern. <i>Cell Reports</i> , <b>2021</b> , 37, 109814	10.6	9
11	SARS-CoV-2 mucosal antibody development and persistence and their relation to viral load and COVID-19 symptoms. <i>Nature Communications</i> , <b>2021</b> , 12, 5621	17.4	9
10	Nidovirus Entry into Cells <b>2014</b> , 157-178		5
9	An ACE2-blocking antibody confers broad neutralization and protection against Omicron and other SARS-CoV-2 variants of concern.. <i>Science Immunology</i> , <b>2022</b> , eabp9312	28	5
8	Development and Validation of a S1 Protein-Based ELISA for the Specific Detection of Antibodies against Equine Coronavirus. <i>Viruses</i> , <b>2019</b> , 11,	6.2	4
7	Structural Studies of Coronavirus Fusion Proteins. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1300-1301	0.5	3
6	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> , <b>2021</b> , 6, 122	9.5	3
5	RAPPID: a platform of ratiometric bioluminescent sensors for homogeneous immunoassays		2
4	Elevated mucosal antibody responses against SARS-CoV-2 are correlated with lower viral load and faster decrease in systemic COVID-19 symptoms		2
3	A human monoclonal antibody targeting a conserved pocket in the SARS-CoV-2 receptor-binding domain core		1
2	Suitability of transiently expressed antibodies for clinical studies: product quality consistency at different production scales.. <i>MAbs</i> , <b>2022</b> , 14, 2052228	6.6	0
1	Zoonoses Anticipation and Preparedness Initiative, stakeholders conference, February 4 & 5, 2021. <i>Biologicals</i> , <b>2021</b> , 74, 10-15	1.8	