

Lanying Du

List of Publications by Citations

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101
papers

9,892
citations

52
h-index

99
g-index

110
ext. papers

12,170
ext. citations

8.8
avg, IF

7.13
L-index

#	Paper	IF	Citations
101	The spike protein of SARS-CoV--a target for vaccine and therapeutic development. <i>Nature Reviews Microbiology</i> , 2009 , 7, 226-36	22.2	1007
100	Characterization of the receptor-binding domain (RBD) of 2019 novel coronavirus: implication for development of RBD protein as a viral attachment inhibitor and vaccine. <i>Cellular and Molecular Immunology</i> , 2020 , 17, 613-620	15.4	910
99	Inhibition of SARS-CoV-2 (previously 2019-nCoV) infection by a highly potent pan-coronavirus fusion inhibitor targeting its spike protein that harbors a high capacity to mediate membrane fusion. <i>Cell Research</i> , 2020 , 30, 343-355	24.7	745
98	Neutralizing Antibodies against SARS-CoV-2 and Other Human Coronaviruses. <i>Trends in Immunology</i> , 2020 , 41, 355-359	14.4	476
97	Molecular Mechanism for Antibody-Dependent Enhancement of Coronavirus Entry. <i>Journal of Virology</i> , 2020 , 94,	6.6	402
96	A pan-coronavirus fusion inhibitor targeting the HR1 domain of human coronavirus spike. <i>Science Advances</i> , 2019 , 5, eaav4580	14.3	268
95	Structure-based discovery of Middle East respiratory syndrome coronavirus fusion inhibitor. <i>Nature Communications</i> , 2014 , 5, 3067	17.4	247
94	Recent advances in the detection of respiratory virus infection in humans. <i>Journal of Medical Virology</i> , 2020 , 92, 408-417	19.7	233
93	Measures for diagnosing and treating infections by a novel coronavirus responsible for a pneumonia outbreak originating in Wuhan, China. <i>Microbes and Infection</i> , 2020 , 22, 74-79	9.3	220
92	An emerging coronavirus causing pneumonia outbreak in Wuhan, China: calling for developing therapeutic and prophylactic strategies. <i>Emerging Microbes and Infections</i> , 2020 , 9, 275-277	18.9	210
91	Subunit Vaccines Against Emerging Pathogenic Human Coronaviruses. <i>Frontiers in Microbiology</i> , 2020 , 11, 298	5.7	188
90	Exceptionally potent neutralization of Middle East respiratory syndrome coronavirus by human monoclonal antibodies. <i>Journal of Virology</i> , 2014 , 88, 7796-805	6.6	182
89	Receptor usage and cell entry of bat coronavirus HKU4 provide insight into bat-to-human transmission of MERS coronavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12516-21	11.5	182
88	MERS-CoV spike protein: a key target for antivirals. <i>Expert Opinion on Therapeutic Targets</i> , 2017 , 21, 131-143	6.43	176
87	Identification of a receptor-binding domain in the S protein of the novel human coronavirus Middle East respiratory syndrome coronavirus as an essential target for vaccine development. <i>Journal of Virology</i> , 2013 , 87, 9939-42	6.6	140
86	Receptor usage and cell entry of porcine epidemic diarrhea coronavirus. <i>Journal of Virology</i> , 2015 , 89, 6121-5	6.6	129
85	Receptor-binding domain of SARS-CoV spike protein induces long-term protective immunity in an animal model. <i>Vaccine</i> , 2007 , 25, 2832-8	4.1	128

84	A truncated receptor-binding domain of MERS-CoV spike protein potently inhibits MERS-CoV infection and induces strong neutralizing antibody responses: implication for developing therapeutics and vaccines. <i>PLoS ONE</i> , 2013 , 8, e81587	3.7	126
83	Current advancements and potential strategies in the development of MERS-CoV vaccines. <i>Expert Review of Vaccines</i> , 2014 , 13, 761-74	5.2	113
82	A conformation-dependent neutralizing monoclonal antibody specifically targeting receptor-binding domain in Middle East respiratory syndrome coronavirus spike protein. <i>Journal of Virology</i> , 2014 , 88, 7045-53	6.6	112
81	Intranasal vaccination with recombinant receptor-binding domain of MERS-CoV spike protein induces much stronger local mucosal immune responses than subcutaneous immunization: Implication for designing novel mucosal MERS vaccines. <i>Vaccine</i> , 2014 , 32, 2100-8	4.1	107
80	Searching for an ideal vaccine candidate among different MERS coronavirus receptor-binding fragments--the importance of immunofocusing in subunit vaccine design. <i>Vaccine</i> , 2014 , 32, 6170-6176	4.1	102
79	A safe and convenient pseudovirus-based inhibition assay to detect neutralizing antibodies and screen for viral entry inhibitors against the novel human coronavirus MERS-CoV. <i>Virology Journal</i> , 2013 , 10, 266	6.1	102
78	Intranasal vaccination of recombinant adeno-associated virus encoding receptor-binding domain of severe acute respiratory syndrome coronavirus (SARS-CoV) spike protein induces strong mucosal immune responses and provides long-term protection against SARS-CoV infection. <i>Journal of Immunology</i> , 2008 , 180, 948-56	5.3	102
77	Identification of an ideal adjuvant for receptor-binding domain-based subunit vaccines against Middle East respiratory syndrome coronavirus. <i>Cellular and Molecular Immunology</i> , 2016 , 13, 180-90	15.4	96
76	Two Mutations Were Critical for Bat-to-Human Transmission of Middle East Respiratory Syndrome Coronavirus. <i>Journal of Virology</i> , 2015 , 89, 9119-23	6.6	96
75	Cleavage of spike protein of SARS coronavirus by protease factor Xa is associated with viral infectivity. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 359, 174-9	3.4	96
74	Recombinant receptor-binding domain of SARS-CoV spike protein expressed in mammalian, insect and E. coli cells elicits potent neutralizing antibody and protective immunity. <i>Virology</i> , 2009 , 393, 144-50 ^{3.6}	3.6	93
73	Junctional and allele-specific residues are critical for MERS-CoV neutralization by an exceptionally potent germline-like antibody. <i>Nature Communications</i> , 2015 , 6, 8223	17.4	90
72	Research and development of universal influenza vaccines. <i>Microbes and Infection</i> , 2010 , 12, 280-6	9.3	88
71	Prospects for a MERS-CoV spike vaccine. <i>Expert Review of Vaccines</i> , 2018 , 17, 677-686	5.2	83
70	A peptide-based viral inactivator inhibits Zika virus infection in pregnant mice and fetuses. <i>Nature Communications</i> , 2017 , 8, 15672	17.4	83
69	Yeast-expressed recombinant protein of the receptor-binding domain in SARS-CoV spike protein with deglycosylated forms as a SARS vaccine candidate. <i>Human Vaccines and Immunotherapeutics</i> , 2014 , 10, 648-58	4.4	82
68	Middle East respiratory syndrome coronavirus (MERS-CoV) entry inhibitors targeting spike protein. <i>Virus Research</i> , 2014 , 194, 200-10	6.4	79
67	Introduction of neutralizing immunogenicity index to the rational design of MERS coronavirus subunit vaccines. <i>Nature Communications</i> , 2016 , 7, 13473	17.4	77

66	A recombinant receptor-binding domain of MERS-CoV in trimeric form protects human dipeptidyl peptidase 4 (hDPP4) transgenic mice from MERS-CoV infection. <i>Virology</i> , 2016 , 499, 375-382	3.6	76
65	Learning from the past: development of safe and effective COVID-19 vaccines. <i>Nature Reviews Microbiology</i> , 2021 , 19, 211-219	22.2	75
64	A novel receptor-binding domain (RBD)-based mRNA vaccine against SARS-CoV-2. <i>Cell Research</i> , 2020 , 30, 932-935	24.7	73
63	An M2e-based multiple antigenic peptide vaccine protects mice from lethal challenge with divergent H5N1 influenza viruses. <i>Virology Journal</i> , 2010 , 7, 9	6.1	72
62	Protective Effect of Intranasal Regimens Containing Peptidic Middle East Respiratory Syndrome Coronavirus Fusion Inhibitor Against MERS-CoV Infection. <i>Journal of Infectious Diseases</i> , 2015 , 212, 1894-1903	7.0	71
61	Identification of SARS-CoV RBD-targeting monoclonal antibodies with cross-reactive or neutralizing activity against SARS-CoV-2. <i>Antiviral Research</i> , 2020 , 179, 104820	10.8	71
60	Advances in MERS-CoV Vaccines and Therapeutics Based on the Receptor-Binding Domain. <i>Viruses</i> , 2019 , 11,	6.2	69
59	Priming with rAAV encoding RBD of SARS-CoV S protein and boosting with RBD-specific peptides for T cell epitopes elevated humoral and cellular immune responses against SARS-CoV infection. <i>Vaccine</i> , 2008 , 26, 1644-51	4.1	67
58	Characterization and Demonstration of the Value of a Lethal Mouse Model of Middle East Respiratory Syndrome Coronavirus Infection and Disease. <i>Journal of Virology</i> , 2016 , 90, 57-67	6.6	64
57	Vaccines for the prevention against the threat of MERS-CoV. <i>Expert Review of Vaccines</i> , 2016 , 15, 1123-34	3.2	64
56	A Novel Nanobody Targeting Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Receptor-Binding Domain Has Potent Cross-Neutralizing Activity and Protective Efficacy against MERS-CoV. <i>Journal of Virology</i> , 2018 , 92,	6.6	62
55	Optimization of antigen dose for a receptor-binding domain-based subunit vaccine against MERS coronavirus. <i>Human Vaccines and Immunotherapeutics</i> , 2015 , 11, 1244-50	4.4	60
54	Modulation of HBV replication by microRNA-15b through targeting hepatocyte nuclear factor 1 α <i>Nucleic Acids Research</i> , 2014 , 42, 6578-90	20.1	60
53	Multi-Organ Damage in Human Dipeptidyl Peptidase 4 Transgenic Mice Infected with Middle East Respiratory Syndrome-Coronavirus. <i>PLoS ONE</i> , 2015 , 10, e0145561	3.7	59
52	Recombinant Receptor-Binding Domains of Multiple Middle East Respiratory Syndrome Coronaviruses (MERS-CoVs) Induce Cross-Neutralizing Antibodies against Divergent Human and Camel MERS-CoVs and Antibody Escape Mutants. <i>Journal of Virology</i> , 2017 , 91,	6.6	58
51	Neutralizing antibodies for the treatment of COVID-19. <i>Nature Biomedical Engineering</i> , 2020 , 4, 1134-1139	1.3	52
50	Potent and persistent antibody responses against the receptor-binding domain of SARS-CoV spike protein in recovered patients. <i>Virology Journal</i> , 2010 , 7, 299	6.1	52
49	Yeast-expressed SARS-CoV recombinant receptor-binding domain (RBD219-N1) formulated with aluminum hydroxide induces protective immunity and reduces immune enhancement. <i>Vaccine</i> , 2020 , 38, 7533-7541	4.1	50

48	Receptor-binding domain-based subunit vaccines against MERS-CoV. <i>Virus Research</i> , 2015 , 202, 151-9	6.4	49
47	Identification and characterization of novel neutralizing epitopes in the receptor-binding domain of SARS-CoV spike protein: revealing the critical antigenic determinants in inactivated SARS-CoV vaccine. <i>Vaccine</i> , 2006 , 24, 5498-508	4.1	46
46	Engineering a stable CHO cell line for the expression of a MERS-coronavirus vaccine antigen. <i>Vaccine</i> , 2018 , 36, 1853-1862	4.1	44
45	Receptor-binding domain of MERS-CoV with optimal immunogen dosage and immunization interval protects human transgenic mice from MERS-CoV infection. <i>Human Vaccines and Immunotherapeutics</i> , 2017 , 13, 1615-1624	4.4	43
44	Single-dose treatment with a humanized neutralizing antibody affords full protection of a human transgenic mouse model from lethal Middle East respiratory syndrome (MERS)-coronavirus infection. <i>Antiviral Research</i> , 2016 , 132, 141-8	10.8	43
43	A 219-mer CHO-expressing receptor-binding domain of SARS-CoV S protein induces potent immune responses and protective immunity. <i>Viral Immunology</i> , 2010 , 23, 211-9	1.7	40
42	SARS-CoV-2 spike protein: a key target for eliciting persistent neutralizing antibodies. <i>Signal Transduction and Targeted Therapy</i> , 2021 , 6, 95	2.1	39
41	Recombinant adeno-associated virus expressing the receptor-binding domain of severe acute respiratory syndrome coronavirus S protein elicits neutralizing antibodies: Implication for developing SARS vaccines. <i>Virology</i> , 2006 , 353, 6-16	3.6	38
40	Current development of COVID-19 diagnostics, vaccines and therapeutics. <i>Microbes and Infection</i> , 2020 , 22, 231-235	9.3	34
39	Neutralization of Zika virus by germline-like human monoclonal antibodies targeting cryptic epitopes on envelope domain III. <i>Emerging Microbes and Infections</i> , 2017 , 6, e89	18.9	33
38	Synthetic Peptides outside the Spike Protein Heptad Repeat Regions as Potent Inhibitors of Sars-Associated Coronavirus. <i>Antiviral Therapy</i> , 2005 , 10, 393-403	1.6	33
37	Critical neutralizing fragment of Zika virus EDIII elicits cross-neutralization and protection against divergent Zika viruses. <i>Emerging Microbes and Infections</i> , 2018 , 7, 7	18.9	30
36	An H5N1 M2e-based multiple antigenic peptide vaccine confers heterosubtypic protection from lethal infection with pandemic 2009 H1N1 virus. <i>Virology Journal</i> , 2010 , 7, 151	6.1	30
35	From SARS-CoV to SARS-CoV-2: safety and broad-spectrum are important for coronavirus vaccine development. <i>Microbes and Infection</i> , 2020 , 22, 245-253	9.3	28
34	Development of a safe and convenient neutralization assay for rapid screening of influenza HA-specific neutralizing monoclonal antibodies. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 397, 580-5	3.4	28
33	Induction of protection against divergent H5N1 influenza viruses using a recombinant fusion protein linking influenza M2e to Onchocerca volvulus activation associated protein-1 (ASP-1) adjuvant. <i>Vaccine</i> , 2010 , 28, 7233-40	4.1	28
32	Identification of Novel Natural Products as Effective and Broad-Spectrum Anti-Zika Virus Inhibitors. <i>Viruses</i> , 2019 , 11,	6.2	26
31	Biomechanical characterization of SARS-CoV-2 spike RBD and human ACE2 protein-protein interaction. <i>Biophysical Journal</i> , 2021 , 120, 1011-1019	2.9	26

30	Improved Pharmacological and Structural Properties of HIV Fusion Inhibitor AP3 over Enfuvirtide: Highlighting Advantages of Artificial Peptide Strategy. <i>Scientific Reports</i> , 2015 , 5, 13028	4.9	25
29	A critical HA1 neutralizing domain of H5N1 influenza in an optimal conformation induces strong cross-protection. <i>PLoS ONE</i> , 2013 , 8, e53568	3.7	24
28	Cross-neutralization of SARS coronavirus-specific antibodies against bat SARS-like coronaviruses. <i>Science China Life Sciences</i> , 2017 , 60, 1399-1402	8.5	23
27	Yeast-Expressed SARS-CoV Recombinant Receptor-Binding Domain (RBD219-N1) Formulated with Aluminum Hydroxide Induces Protective Immunity and Reduces Immune Enhancement 2020 ,		23
26	Rational Design of Zika Virus Subunit Vaccine with Enhanced Efficacy. <i>Journal of Virology</i> , 2019 , 93,	6.6	21
25	Development of subunit vaccines against severe acute respiratory syndrome. <i>Drugs of Today</i> , 2008 , 44, 63-73	2.5	21
24	Neutralizing antibodies for the prevention and treatment of COVID-19. <i>Cellular and Molecular Immunology</i> , 2021 , 18, 2293-2306	15.4	21
23	Enhanced Ability of Oligomeric Nanobodies Targeting MERS Coronavirus Receptor-Binding Domain. <i>Viruses</i> , 2019 , 11,	6.2	16
22	A Peptide-Based HIV-1 Fusion Inhibitor with Two Tail-Anchors and Palmitic Acid Exhibits Substantially Improved In Vitro and Ex Vivo Anti-HIV-1 Activity and Prolonged In Vivo Half-Life. <i>Molecules</i> , 2019 , 24,	4.8	14
21	Treatment of Paraquat-Induced Lung Injury With an Anti-C5a Antibody: Potential Clinical Application. <i>Critical Care Medicine</i> , 2018 , 46, e419-e425	1.4	14
20	Highly conserved M2e and hemagglutinin epitope-based recombinant proteins induce protection against influenza virus infection. <i>Microbes and Infection</i> , 2017 , 19, 641-647	9.3	12
19	Novel virus-like nanoparticle vaccine effectively protects animal model from SARS-CoV-2 infection. <i>PLoS Pathogens</i> , 2021 , 17, e1009897	7.6	11
18	A recombinant protein containing highly conserved hemagglutinin residues 81-122 of influenza H5N1 induces strong humoral and mucosal immune responses. <i>BioScience Trends</i> , 2013 , 7, 129-37	9.9	11
17	Transfusion-Transmitted Zika Virus Infection in Pregnant Mice Leads to Broad Tissue Tropism With Severe Placental Damage and Fetal Demise. <i>Frontiers in Microbiology</i> , 2019 , 10, 29	5.7	10
16	The development of - as anti-SARS-CoV-2 nanobody drug candidates. <i>ELife</i> , 2021 , 10,	8.9	10
15	Advances in the research and development of therapeutic antibodies against the Zika virus. <i>Cellular and Molecular Immunology</i> , 2019 , 16, 96-97	15.4	9
14	Effect of Low-Pathogenic Human Coronavirus-Specific Antibodies on SARS-CoV-2. <i>Trends in Immunology</i> , 2020 , 41, 853-854	14.4	8
13	Recent Advances in the Development of Virus-Like Particle-Based Flavivirus Vaccines. <i>Vaccines</i> , 2020 , 8,	5.3	7

12	Anti-HIV antibody and drug combinations exhibit synergistic activity against drug-resistant HIV-1 strains. <i>Journal of Infection</i> , 2017 , 75, 68-71	18.9	6
11	The Potency of an Anti-MERS Coronavirus Subunit Vaccine Depends on a Unique Combinatorial Adjuvant Formulation. <i>Vaccines</i> , 2020 , 8,	5.3	6
10	Effects of Adjuvants on the Immunogenicity and Efficacy of a Zika Virus Envelope Domain III Subunit Vaccine. <i>Vaccines</i> , 2019 , 7,	5.3	6
9	Biomechanical Characterization of SARS-CoV-2 Spike RBD and Human ACE2 Protein-Protein Interaction 2020 ,		6
8	Vaccine booster efficiently inhibits entry of SARS-CoV-2 omicron variant.. <i>Cellular and Molecular Immunology</i> , 2022 ,	15.4	5
7	Recent advances in nanotechnology-based COVID-19 vaccines and therapeutic antibodies.. <i>Nanoscale</i> , 2022 ,	7.7	5
6	A vaccine inducing solely cytotoxic T lymphocytes fully prevents Zika virus infection and fetal damage. <i>Cell Reports</i> , 2021 , 35, 109107	10.6	5
5	Inhibition of SARS-CoV-2 infection (previously 2019-nCoV) by a highly potent pan-coronavirus fusion inhibitor targeting its spike protein that harbors a high capacity to mediate membrane fusion		4
4	Intranasally administered peptidic viral fusion inhibitor protected hDPP4 transgenic mice from MERS-CoV infection. <i>Lancet, The</i> , 2015 , 386, S44	4.0	3
3	Up-regulation of human cervical cancer proto-oncogene contributes to hepatitis B virus-induced malignant transformation of hepatocyte by down-regulating E-cadherin. <i>Oncotarget</i> , 2015 , 6, 29196-208 ^{3,3}		3
2	An overview of Middle East respiratory syndrome coronavirus vaccines in preclinical studies. <i>Expert Review of Vaccines</i> , 2020 , 19, 817-829	5.2	2
1	An emerging coronavirus causing pneumonia outbreak in Wuhan, China: calling for developing therapeutic and prophylactic strategies		1