Dongwan Yoo

List of Publications by Year in descending order

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95 papers	4,014 citations	81900 39 h-index	133252 59 g-index
95 all docs	95 docs citations	95 times ranked	3020 citing authors

#	Article	IF	Citations
1	Prevalence of antibodies to the hepatitis E virus in pigs from countries where hepatitis E is common or is rare in the human population. Journal of Medical Virology, 1999, 59, 297-302.	5.0	164
2	Interplay between Interferon-Mediated Innate Immunity and Porcine Reproductive and Respiratory Syndrome Virus. Viruses, 2012, 4, 424-446.	3.3	149
3	Suppression of type I interferon production by porcine epidemic diarrhea virus and degradation of CREB-binding protein by nsp1. Virology, 2016, 489, 252-268.	2.4	148
4	Activation of NF-Î¹B and induction of proinflammatory cytokine expressions mediated by ORF7a protein of SARS-CoV-2. Scientific Reports, 2021, 11, 13464.	3.3	140
5	Modulation of host cell responses and evasion strategies for porcine reproductive and respiratory syndrome virus. Virus Research, 2010, 154, 48-60.	2.2	120
6	Modulation of type I interferon induction by porcine reproductive and respiratory syndrome virus and degradation of CREB-binding protein by non-structural protein 1 in MARC-145 and HeLa cells. Virology, 2010, 402, 315-326.	2.4	118
7	Immune evasion of porcine enteric coronaviruses and viral modulation of antiviral innate signaling. Virus Research, 2016, 226, 128-141.	2.2	111
8	Type III Interferon Restriction by Porcine Epidemic Diarrhea Virus and the Role of Viral Protein nsp1 in IRF1 Signaling. Journal of Virology, 2018, 92, .	3.4	106
9	PRRS virus receptors and their role for pathogenesis. Veterinary Microbiology, 2015, 177, 229-241.	1.9	100
10	Colocalization and Interaction of the Porcine Arterivirus Nucleocapsid Protein with the Small Nucleolar RNA-Associated Protein Fibrillarin. Journal of Virology, 2003, 77, 12173-12183.	3.4	96
11	Nucleolar-cytoplasmic shuttling of PRRSV nucleocapsid protein: a simple case of molecular mimicry or the complex regulation by nuclear import, nucleolar localization and nuclear export signal sequences. Virus Research, 2003, 95, 23-33.	2.2	92
12	Nonstructural protein 1Î± subunit-based inhibition of NF-Î¹B activation and suppression of interferon-Î² production by porcine reproductive and respiratory syndrome virus. Virology, 2010, 407, 268-280.	2.4	91
13	Homo-Oligomerization of the Porcine Reproductive and Respiratory Syndrome Virus Nucleocapsid Protein and the Role of Disulfide Linkages. Journal of Virology, 2003, 77, 4546-4557.	3.4	87
14	Prevalence of Hepatitis E Virus Antibodies in Canadian Swine Herds and Identification of a Novel Variant of Swine Hepatitis E Virus. Vaccine Journal, 2001, 8, 1213-1219.	2.6	83
15	3C ^{pro} of Foot-and-Mouth Disease Virus Antagonizes the Interferon Signaling Pathway by Blocking STAT1/STAT2 Nuclear Translocation. Journal of Virology, 2014, 88, 4908-4920.	3.4	83
16	Mutations within the nuclear localization signal of the porcine reproductive and respiratory syndrome virus nucleocapsid protein attenuate virus replication. Virology, 2006, 346, 238-250.	2.4	82
17	A DNA-launched reverse genetics system for porcine reproductive and respiratory syndrome virus reveals that homodimerization of the nucleocapsid protein is essential for virus infectivity. Virology, 2005, 331, 47-62.	2.4	74
18	The small envelope protein of porcine reproductive and respiratory syndrome virus possesses ion channel protein-like properties. Virology, 2006, 355, 30-43.	2.4	73

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19	Modulation of CD163 receptor expression and replication of porcine reproductive and respiratory syndrome virus in porcine macrophages. Virus Research, 2009, 140, 161-171.	2.2	73
20	Antigenic Structure of the Nucleocapsid Protein of Porcine Reproductive and Respiratory Syndrome Virus. Vaccine Journal, 1998, 5, 773-779.	2.6	72
21	Role of porcine reproductive and respiratory syndrome virus nucleocapsid protein in induction of interleukin-10 and regulatory T-lymphocytes (Treg). Journal of General Virology, 2012, 93, 1236-1246.	2.9	66
22	Phosphorylation of the Porcine Reproductive and Respiratory Syndrome Virus Nucleocapsid Protein. Journal of Virology, 2002, 76, 10569-10576.	3.4	63
23	Molecular and Cellular Mechanisms for PRRSV Pathogenesis and Host Response to Infection. Virus Research, 2020, 286, 197980.	2.2	57
24	Genetic Characterization and Sequence Heterogeneity of a Canadian Isolate of Swine Hepatitis E Virus. Journal of Clinical Microbiology, 2002, 40, 4021-4029.	3.9	55
25	The S2 subunit of the spike glycoprotein of bovine coronavirus mediates membrane fusion in insect cells. Virology, 1991, 180, 395-399.	2.4	54
26	Peptide domains involved in the localization of the porcine reproductive and respiratory syndrome virus nucleocapsid protein to the nucleolus. Virology, 2003, 316, 135-145.	2.4	54
27	Functional mapping of the porcine reproductive and respiratory syndrome virus capsid protein nuclear localization signal and its pathogenic association. Virus Research, 2008, 135, 107-114.	2.2	54
28	A Single Amino Acid Change within Antigenic Domain II of the Spike Protein of Bovine Coronavirus Confers Resistance to Virus Neutralization. Vaccine Journal, 2001, 8, 297-302.	2.6	53
29	Degradation of CREB-binding protein and modulation of type I interferon induction by the zinc finger motif of the porcine reproductive and respiratory syndrome virus nsp1Î± subunit. Virus Research, 2013, 172, 54-65.	2.2	53
30	Inhibition of NF-ÎºB activity by the porcine epidemic diarrhea virus nonstructural protein 1 for innate immune evasion. Virology, 2017, 510, 111-126.	2.4	52
31	Nonstructural Protein 11 of Porcine Reproductive and Respiratory Syndrome Virus Suppresses Both MAVS and RIG-I Expression as One of the Mechanisms to Antagonize Type I Interferon Production. PLoS ONE, 2016, 11, e0168314.	2.5	52
32	Engineering the PRRS virus genome: Updates and perspectives. Veterinary Microbiology, 2014, 174, 279-295.	1.9	50
33	Genetic variation and pathogenicity of highly virulent porcine reproductive and respiratory syndrome virus emerging in China. Archives of Virology, 2009, 154, 1589-1597.	2.1	48
34	COVID-19 and veterinarians for one health, zoonotic- and reverse-zoonotic transmissions. Journal of Veterinary Science, 2020, 21, e51.	1.3	48
35	Porcine reproductive and respiratory syndrome virus as a vector: Immunogenicity of green fluorescent protein and porcine circovirus type 2 capsid expressed from dedicated subgenomic RNAs. Virology, 2009, 389, 91-99.	2.4	45
36	The spread of Type 2 Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) in North America: A phylogeographic approach. Virology, 2013, 447, 146-154.	2.4	45

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37	Infectious cDNA clones of porcine reproductive and respiratory syndrome virus and their potential as vaccine vectors. Veterinary Immunology and Immunopathology, 2004, 102, 143-154.	1.2	43
38	Synergy of TLR3 and 7 ligands significantly enhances function of DCs to present inactivated PRRSV antigen through TRIF/MyD88-NF-ÍºB signaling pathway. Scientific Reports, 2016, 6, 23977.	3.3	43
39	Characterization of the microRNAome in Porcine Reproductive and Respiratory Syndrome Virus Infected Macrophages. PLoS ONE, 2013, 8, e82054.	2.5	42
40	Common RNA replication signals exist among group 2 coronaviruses: evidence for in vivo recombination between animal and human coronavius molecules. Virology, 2003, 315, 174-183.	2.4	38
41	Induction of Systemic and Mucosal Immune Responses in Cotton Rats Immunized with Human Adenovirus Type 5 Recombinants Expressing the Full and Truncated Forms of Bovine Herpesvirus Type 1 Glycoprotein gD. Virology, 1996, 222, 299-309.	2.4	37
42	Metagenomics Reveals a Novel Virophage Population in a Tibetan Mountain Lake. Microbes and Environments, 2016, 31, 173-177.	1.6	35
43	Engineering a Live Attenuated Porcine Epidemic Diarrhea Virus Vaccine Candidate via Inactivation of the Viral 2'-O-Methyltransferase and the Endocytosis Signal of the Spike Protein. Journal of Virology, 2019, 93, .	3.4	35
44	Antigenic Importance of the Carboxy-Terminal Beta-Strand of the Porcine Reproductive and Respiratory Syndrome Virus Nucleocapsid Protein. Vaccine Journal, 2001, 8, 598-603.	2.6	34
45	The viral innate immune antagonism and an alternative vaccine design for PRRS virus. Veterinary Microbiology, 2017, 209, 75-89.	1.9	34
46	Animal coronaviruses and SARSâ€CoVâ€2. Transboundary and Emerging Diseases, 2021, 68, 1097-1110.	3.0	33
47	Nudeotide sequence of the M segment of the genomic RNA of Hantaan virus 76â€“118. Nucleic Acids Research, 1987, 15, 6299-6299.	14.5	31
48	Modulation of innate immune signaling by nonstructural protein 1 (nsp1) in the family Arteriviridae. Virus Research, 2014, 194, 100-109.	2.2	31
49	Construction and evaluation of genetically engineered replication-defective porcine reproductive and respiratory syndrome virus vaccine candidates. Veterinary Immunology and Immunopathology, 2004, 102, 277-290.	1.2	30
50	Fine mapping of sequential neutralization epitopes on the subunit protein VP8 of human rotavirus. Biochemical Journal, 2003, 376, 269-275.	3.7	29
51	Cysteine residues of the porcine reproductive and respiratory syndrome virus small envelope protein are non-essential for virus infectivity. Journal of General Virology, 2005, 86, 3091-3096.	2.9	29
52	Myristoylation of the small envelope protein of porcine reproductive and respiratory syndrome virus is non-essential for virus infectivity but promotes its growth. Virus Research, 2010, 147, 294-299.	2.2	29
53	Cloning and Expression of Human Rotavirus Spike Protein, VP8*, in Escherichia coli. Biochemical and Biophysical Research Communications, 2001, 282, 1183-1188.	2.1	28
54	African swine fever: Etiology, epidemiological status in Korea, and perspective on control. Journal of Veterinary Science, 2020, 21, e38.	1.3	28

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55	Differential host cell gene expression regulated by the porcine reproductive and respiratory syndrome virus GP4 and GP5 glycoproteins. Veterinary Immunology and Immunopathology, 2004, 102, 189-198.	1.2	25
56	Glycosyl-phosphatidylinositol (GPI)-anchored membrane association of the porcine reproductive and respiratory syndrome virus GP4 glycoprotein and its co-localization with CD163 in lipid rafts. Virology, 2012, 424, 18-32.	2.4	24
57	Nuclear export signal of PRRSV NSP1Î± is necessary for type I IFN inhibition. Virology, 2016, 499, 278-287.	2.4	24
58	Structural analysis of the conformational domains involved in neutralization of bovine coronavirus using deletion mutants of the spike glycoprotein S1 subunit expressed by recombinant baculoviruses. Virology, 1991, 183, 91-98.	2.4	23
59	Characterization of the porcine reproductive and respiratory syndrome virus glycoprotein 5 (GP5) in stably expressing cells. Virus Research, 2004, 104, 33-38.	2.2	23
60	Differential Host Cell Gene Expression and Regulation of Cell Cycle Progression by Nonstructural Protein 11 of Porcine Reproductive and Respiratory Syndrome Virus. BioMed Research International, 2014, 2014, 1-13.	1.9	23
61	Biogenesis of non-structural protein 1 (nsp1) and nsp1-mediated type I interferon modulation in arteriviruses. Virology, 2014, 458-459, 136-150.	2.4	21
62	Nuclear imprisonment of host cellular mRNA by nsp1Î² protein of porcine reproductive and respiratory syndrome virus. Virology, 2017, 505, 42-55.	2.4	21
63	Porcine plasma ficolin binds and reduces infectivity of porcine reproductive and respiratory syndrome virus (PRRSV) in vitro. Antiviral Research, 2008, 77, 28-38.	4.1	20
64	Interaction of the porcine reproductive and respiratory syndrome virus nucleocapsid protein with the inhibitor of MyoD family-a domain-containing protein. Biological Chemistry, 2009, 390, 215-223.	2.5	19
65	Primary Structure of the Sialodacryoadenitis Virus Genome: Sequence of the Structural-Protein Region and Its Application for Differential Diagnosis. Vaccine Journal, 2000, 7, 568-573.	2.6	18
66	Evaluation of a DNA vaccine candidate co-expressing GP3 and GP5 of porcine reproductive and respiratory syndrome virus (PRRSV) with interferon Î±/Î³ in immediate and long-lasting protection against HP-PRRSV challenge. Virus Genes, 2012, 45, 474-487.	1.6	17
67	Porcine Reproductive and Respiratory Syndrome Virus Nonstructural Protein 1 Beta Interacts with Nucleoporin 62 To Promote Viral Replication and Immune Evasion. Journal of Virology, 2019, 93, .	3.4	17
68	Recent Advances in PRRS Virus Receptors and the Targeting of Receptorâ€“Ligand for Control. Vaccines, 2021, 9, 354.	4.4	17
69	Seroprevalence of Turkey Coronavirus in North American Turkeys Determined by a Newly Developed Enzyme-Linked Immunosorbent Assay Based on Recombinant Antigen. Vaccine Journal, 2008, 15, 1839-1844.	3.1	15
70	Type I interferon suppression-negative and host mRNA nuclear retention-negative mutation in nsp1Î² confers attenuation of porcine reproductive and respiratory syndrome virus in pigs. Virology, 2018, 517, 177-187.	2.4	15
71	Analysis of the S spike (peplomer) glycoprotein of bovine coronavirus synthesized in insect cells. Virology, 1990, 179, 121-128.	2.4	14
72	Use of recombinant S1 spike polypeptide to develop a TCoV-specific antibody ELISA. Veterinary Microbiology, 2009, 138, 281-288.	1.9	14

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73	Equine Arteritis Virus Does Not Induce Interferon Production in Equine Endothelial Cells: Identification of Nonstructural Protein 1 as a Main Interferon Antagonist. BioMed Research International, 2014, 2014, 1-13.	1.9	14
74	Interaction of PIAS1 with PRRS virus nucleocapsid protein mediates NF-Î²B activation and triggers proinflammatory mediators during viral infection. Scientific Reports, 2019, 9, 11042.	3.3	14
75	The Nuclear Localization Signal of the Prrs Virus Nucleocapsid Protein Modulates Viral Replication in vitro and Antibody Response in vivo. Advances in Experimental Medicine and Biology, 2006, 581, 145-148.	1.6	12
76	Maternal Immunization of Pregnant Cattle with Recombinant VP8* Protein of Bovine Rotavirus Elicits Neutralizing Antibodies to Multiple Serotypes. Advances in Experimental Medicine and Biology, 1997, 412, 405-411.	1.6	11
77	Isolation and evolutionary analyses of porcine epidemic diarrhea virus in Asia. PeerJ, 2020, 8, e10114.	2.0	11
78	Reverse Genetics for Porcine Reproductive and Respiratory Syndrome Virus. Methods in Molecular Biology, 2017, 1602, 29-46.	0.9	9
79	Interaction of porcine reproductive and respiratory syndrome virus major envelope proteins GP5 and M with the cellular protein Snapin. Virus Research, 2018, 249, 85-92.	2.2	8
80	Full-Length Genomic Sequence of Bovine Coronavirus (31kb). Advances in Experimental Medicine and Biology, 2001, , 73-76.	1.6	8
81	Cloning of a gene fragment encoding bovine complement component C3d with expression and characterization of derived fusion proteins. Veterinary Immunology and Immunopathology, 2006, 114, 61-71.	1.2	7
82	The lactate dehydrogenase-elevating virus capsid protein is a nuclearâ€“cytoplasmic protein. Archives of Virology, 2009, 154, 1071-1080.	2.1	6
83	Inhibition of Antiviral Innate Immunity by Foot-and-Mouth Disease Virus L ^{pro} through Interaction with the N-Terminal Domain of Swine RNase L. Journal of Virology, 2021, 95, e0036121.	3.4	6
84	Animal Arterivirus Infections. BioMed Research International, 2014, 2014, 1-2.	1.9	5
85	Development of a triplex real-time RT-PCR assay for detection and differentiation of three US genotypes of porcine hemagglutinating encephalomyelitis virus. Journal of Virological Methods, 2019, 269, 13-17.	2.1	5
86	Zinc-Binding of the Cysteine-Rich Domain Encoded in the Open Reading Frame 1B of the RNA Polymerase Gene of Coronavirus. Advances in Experimental Medicine and Biology, 1995, 380, 437-442.	1.6	5
87	Antiviral Activity of Tilmicosin for Type 1 and Type 2 Porcine Reproductive And Respiratory Syndrome Virus In Cultured Porcine Alveolar Macrophages. Journal of Antivirals & Antiretrovirals, 2011, 03, .	0.1	5
88	Functional Characterization of Bovine Parainfluenza Virus Type 3 Hemagglutinin-Neuraminidase and Fusion Proteins Expressed by Adenovirus Recombinants. Intervirology, 1998, 41, 253-260.	2.8	4
89	Establishment and Characterization of a High and Stable Porcine CD163-Expressing MARC-145 Cell Line. BioMed Research International, 2018, 2018, 1-9.	1.9	4
90	Homotypic Interactions of the Nucleocapsid Protein of Porcine Reproductive and Respiratory Syndrome Virus (PRRSV). Advances in Experimental Medicine and Biology, 2001, 494, 627-632.	1.6	4

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91	Interâ€serotype reassortment among epizootic haemorrhagic disease viruses in the United States. Transboundary and Emerging Diseases, 2019, 66, 1809-1820.	3.0	2
92	Transcriptional Immune Signatures of Alveolar Macrophages and the Impact of the NLRP3 Inflammasome on Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Replication. Viruses, 2020, 12, 1299.	3.3	2
93	The Haemagglutinin of Bovine Coronavirus Exhibits Significant Similarity to the Haemagglutinin of Type C Influenza Virus. Advances in Experimental Medicine and Biology, 1990, 276, 103-108.	1.6	1
94	Evaluation of porcine reproductive and respiratory syndrome virus replication in laboratory rodents. Canadian Journal of Veterinary Research, 2009, 73, 313-8.	0.2	1
95	Targeted RNA recombination of the membrane and nucleocapsid protein genes between mouse hepatitis virus and bovine coronavirus. Journal of Veterinary Science, 2001, 2, 149.	1.3	0