Chang-Seon Song

List of Publications by Citations

127 papers	1,863 citations	21 h-index	37 g-index
140 ext. papers	2,379 ext. citations	5 avg, IF	4.82 L-index

#	Paper	IF	Citations
127	Intercontinental Spread of Asian-Origin H5N8 to North America through Beringia by Migratory Birds. *Journal of Virology*, **2015**, 89, 6521-4	6.6	246
126	Nanostructured glycan architecture is important in the inhibition of influenza A virus infection. *Nature Nanotechnology*, **2017**, 12, 48-54	28.7	98
125	Highly sensitive sandwich-type SPR based detection of whole H5Nx viruses using a pair of aptamers. *Biosensors and Bioelectronics*, **2016**, 86, 293-300	11.8	79
124	Rapid and background-free detection of avian influenza virus in opaque sample using NIR-to-NIR upconversion nanoparticle-based lateral flow immunoassay platform. *Biosensors and Bioelectronics*, **2018**, 112, 209-215	11.8	60
123	DNA barcoding techniques for avian influenza virus surveillance in migratory bird habitats. *Journal of Wildlife Diseases*, **2010**, 46, 649-54	1.3	53
122	Snake fang-inspired stamping patch for transdermal delivery of liquid formulations. *Science Translational Medicine*, **2019**, 11,	17.5	51
121	Nano metamaterials for ultrasensitive Terahertz biosensing. *Scientific Reports*, **2017**, 7, 8146	4.9	50
120	Comparison of the Oral Microbiomes of Canines and Their Owners Using Next-Generation Sequencing. *PLoS ONE*, **2015**, 10, e0131468	3.7	49
119	Characterization of microbial communities in the chicken oviduct and the origin of chicken embryo gut microbiota. *Scientific Reports*, **2019**, 9, 6838	4.9	46
118	Hepatitis E virus as an emerging zoonotic pathogen. *Journal of Veterinary Science*, **2016**, 17, 1-11	1.6	44
117	An inactivated oil-emulsion fowl Adenovirus serotype 4 vaccine provides broad cross-protection against various serotypes of fowl Adenovirus. *Vaccine*, **2014**, 32, 3564-8	4.1	43
116	Specific detection of avian influenza H5N2 whole virus particles on lateral flow strips using a pair of sandwich-type aptamers. *Biosensors and Bioelectronics*, **2019**, 134, 123-129	11.8	40
115	Reassortant Clade 2.3.4.4 Avian Influenza A(H5N6) Virus in a Wild Mandarin Duck, South Korea, 2016. *Emerging Infectious Diseases*, **2017**, 23, 822-826	10.2	40
114	Identification and virulence characterization of fowl adenoviruses in Korea. *Avian Diseases*, **2011**, 55, 554-60	1.6	38
113	Antiviral Effects of Black Raspberry (Rubus coreanus) Seed and Its Gallic Acid against Influenza Virus Infection. *Viruses*, **2016**, 8,	6.2	36
112	Pathogenicity of the Korean H5N8 highly pathogenic avian influenza virus in commercial domestic poultry species. *Avian Pathology*, **2016**, 45, 208-11	2.4	35
111	Poultry vaccination directed evolution of H9N2 low pathogenicity avian influenza viruses in Korea. *Virology*, **2016**, 488, 225-31	3.6	34

110	Hepatitis E virus infections in humans and animals. *Clinical and Experimental Vaccine Research*, **2014**, 3, 29-36	1.9	26
109	Exchange of Newcastle disease viruses in Korea: the relatedness of isolates between wild birds, live bird markets, poultry farms and neighboring countries. *Infection, Genetics and Evolution*, **2012**, 12, 478-82	4.5	26
108	Experimental infection with highly pathogenic H5N8 avian influenza viruses in the Mandarin duck (Aix galericulata) and domestic pigeon (Columba livia domestica). *Veterinary Microbiology*, **2017**, 203, 95-102	3.3	24
107	Lactobacillus fermentum CJL-112 protects mice against influenza virus infection by activating T-helper 1 and eliciting a protective immune response. *International Immunopharmacology*, **2014**, 18, 50-4	5.8	23
106	Experimental infection and natural contact exposure of ferrets with canine influenza virus (H3N2). *Journal of General Virology*, **2013**, 94, 293-297	4.9	21
105	Highly Pathogenic Avian Influenza Clade 2.3.4.4b Subtype H5N8 Virus Isolated from Mandarin Duck in South Korea, 2020. *Viruses*, **2020**, 12,	6.2	20
104	Complete genome sequence of a natural reassortant H9N2 avian influenza virus found in bean goose (Anser fabalis): direct evidence for virus exchange between Korea and China via wild birds. *Infection, Genetics and Evolution*, **2014**, 26, 250-4	4.5	20
103	Detection of Avian Influenza Virus from Cloacal Swabs Using a Disposable Well Gate FET Sensor. *Advanced Healthcare Materials*, **2017**, 6, 1700371	10.1	19
102	Transgenic Chickens Expressing the 3D8 Single Chain Variable Fragment Protein Suppress Avian Influenza Transmission. *Scientific Reports*, **2017**, 7, 5938	4.9	19
101	Evidence of intercontinental transfer of North American lineage avian influenza virus into Korea. *Infection, Genetics and Evolution*, **2011**, 11, 232-6	4.5	19
100	Mycoplasma hyorhinis is a potential pathogen of porcine respiratory disease complex that aggravates pneumonia caused by porcine reproductive and respiratory syndrome virus. *Veterinary Immunology and Immunopathology*, **2016**, 177, 48-51	2	19
99	Prevalence and genetic features of rabbit hepatitis E virus in Korea. *Journal of Medical Virology*, **2017**, 89, 1995-2002	19.7	18
98	Comparative genome analysis and molecular epidemiology of the reemerging porcine epidemic diarrhea virus strains isolated in Korea. *Infection, Genetics and Evolution*, **2014**, 26, 348-51	4.5	17
97	Protective humoral immune response induced by an inactivated porcine reproductive and respiratory syndrome virus expressing the hypo-glycosylated glycoprotein 5. *Vaccine*, **2014**, 32, 3617-22	4.1	17
96	New Reassortant Clade 2.3.4.4b Avian Influenza A(H5N6) Virus in Wild Birds, South Korea, 2017-18. *Emerging Infectious Diseases*, **2018**, 24, 1953-1955	10.2	17
95	Chimeric Bivalent Virus-Like Particle Vaccine for H5N1 HPAI and ND Confers Protection against a Lethal Challenge in Chickens and Allows a Strategy of Differentiating Infected from Vaccinated Animals (DIVA). *PLoS ONE*, **2016**, 11, e0162946	3.7	16
94	Adverse fetal outcomes in pregnant rabbits experimentally infected with rabbit hepatitis E virus. *Virology*, **2017**, 512, 187-193	3.6	15
93	Supplementation of oil-based inactivated H9N2 vaccine with M2e antigen enhances resistance against heterologous H9N2 avian influenza virus infection. *Veterinary Microbiology*, **2014**, 169, 211-7	3.3	15

92	SARS-CoV-2 Delta (B.1.617.2) Variant: A Unique T478K Mutation in Receptor Binding Motif (RBM) of Gene. *Immune Network*, **2021**, 21, e32	6.1	15
91	Host-Specific Restriction of Avian Influenza Virus Caused by Differential Dynamics of ANP32 Family Members. *Journal of Infectious Diseases*, **2020**, 221, 71-80	7	15
90	Discrimination of Avian Influenza Virus Subtypes using Host-Cell Infection Fingerprinting by a Sulfinate-based Fluorescence Superoxide Probe. *Angewandte Chemie - International Edition*, **2018**, 57, 9716-9721	16.4	14
89	Pre-immune state induced by chicken interferon gamma inhibits the replication of H1N1 human and H9N2 avian influenza viruses in chicken embryo fibroblasts. *Virology Journal*, **2016**, 13, 71	6.1	13
88	Microneedle Vaccination Elicits Superior Protection and Antibody Response over Intranasal Vaccination against Swine-Origin Influenza A (H1N1) in Mice. *PLoS ONE*, **2015**, 10, e0130684	3.7	13
87	Domestic ducks play a major role in the maintenance and spread of H5N8 highly pathogenic avian influenza viruses in South Korea. *Transboundary and Emerging Diseases*, **2020**, 67, 844-851	4.2	13
86	Prevalence and characterization of in two integrated broiler operations in Korea. *Irish Veterinary Journal*, **2018**, 71, 3	2.2	12
85	Development of the novel coating formulations for skin vaccination using stainless steel microneedle. *Drug Delivery and Translational Research*, **2016**, 6, 486-97	6.2	12
84	Effect of zymosan and poly (I:C) adjuvants on responses to microneedle immunization coated with whole inactivated influenza vaccine. *Journal of Controlled Release*, **2017**, 265, 83-92	11.7	12
83	Application of DNA barcoding technique in avian influenza virus surveillance of wild bird habitats in Korea and Mongolia. *Avian Diseases*, **2010**, 54, 677-81	1.6	12
82	Isolation and genomic characterization of a novel avian orthoreovirus strain in Korea, 2014. *Archives of Virology*, **2018**, 163, 1307-1316	2.6	11
81	Genotyping of infectious laryngotracheitis virus using allelic variations from multiple genomic regions. *Avian Pathology*, **2016**, 45, 443-9	2.4	11
80	A Size-Selectively Biomolecule-Immobilized Nanoprobe-Based Chemiluminescent Lateral Flow Immunoassay for Detection of Avian-Origin Viruses. *Analytical Chemistry*, **2021**, 93, 792-800	7.8	11
79	Molecular responses to the influenza A virus in chicken trachea-derived cells. *Poultry Science*, **2015**, 94, 1190-201	3.9	10
78	C-di-GMP with influenza vaccine showed enhanced and shifted immune responses in microneedle vaccination in the skin. *Drug Delivery and Translational Research*, **2020**, 10, 815-825	6.2	10
77	Efficacy of clade 2.3.2 H5 commercial vaccines in protecting chickens from clade 2.3.4.4 H5N8 highly pathogenic avian influenza infection. *Vaccine*, **2017**, 35, 1316-1322	4.1	9
76	Successful cross-protective efficacy induced by heat-adapted live attenuated nephropathogenic infectious bronchitis virus derived from a natural recombinant strain. *Vaccine*, **2015**, 33, 7370-7374	4.1	9
75	A self-calibrating electrochemical aptasensing platform: Correcting external interference errors for the reliable and stable detection of avian influenza viruses. *Biosensors and Bioelectronics*, **2020**, 152, 112010	11.8	9

74	Novel reassortant clade 2.3.4.4 avian influenza A (H5N8) virus in a grey heron in South Korea in 2017. *Archives of Virology*, **2017**, 162, 3887-3891	2.6	9
73	Progress and hurdles in the development of influenza virus-like particle vaccines for veterinary use. *Clinical and Experimental Vaccine Research*, **2014**, 3, 133-9	1.9	9
72	Strategic model of national rabies control in Korea. *Clinical and Experimental Vaccine Research*, **2014** , 3, 78-90	1.9	9
71	Live bird markets as evolutionary epicentres of H9N2 low pathogenicity avian influenza viruses in Korea. *Emerging Microbes and Infections*, **2020**, 9, 616-627	18.9	8
70	Evidence of hepatitis E virus infection in specific pathogen-free rabbits in Korea. *Virus Genes*, **2018**, 54, 587-590	2.3	8
69	Preventive Activity against Influenza (H1N1) Virus by Intranasally Delivered RNA-Hydrolyzing Antibody in Respiratory Epithelial Cells of Mice. *Viruses*, **2015**, 7, 5133-44	6.2	8
68	Immunization with a thermostable newcastle disease virus K148/08 strain originated from wild mallard duck confers protection against lethal viscerotropic velogenic newcastle disease virus infection in chickens. *PLoS ONE*, **2013**, 8, e83161	3.7	8
67	Identification of Hepatitis E Virus in Bovine and Porcine Raw Livers. *Journal of Microbiology and Biotechnology*, **2019**, 29, 2022-2025	3.3	8
66	Detection of hepatitis E virus genotypes 3 and 4 in pig farms in Korea. *Journal of Veterinary Science*, **2018**, 19, 309-312	1.6	8
65	Whole-Genome Sequencing Analysis of. *Pathogens*, **2021**, 10,	4.5	8
64	Different pathogenicity of two strains of clade 2.3.4.4c H5N6 highly pathogenic avian influenza viruses bearing different PA and NS gene in domestic ducks. *Virology*, **2019**, 530, 11-18	3.6	7
63	Eradication of Mycoplasma synoviae from a multi-age broiler breeder farm using antibiotics therapy. *Poultry Science*, **2015**, 94, 2364-8	3.9	7
62	Reduction of mycoplasmal lesions and clinical signs by vaccination against Mycoplasma hyorhinis. *Veterinary Immunology and Immunopathology*, **2018**, 196, 14-17	2	7
61	SARS-CoV-2 Omicron Mutation Is Faster than the Chase: Multiple Mutations on Spike/ACE2 Interaction Residues.. *Immune Network*, **2021**, 21, e38	6.1	7
60	Comparative genome analysis of Korean field strains of infectious laryngotracheitis virus. *PLoS ONE* , **2019**, 14, e0211158	3.7	6
59	Immune response in domestic ducks following intradermal delivery of inactivated vaccine against H5N1 highly pathogenic avian influenza virus adjuvanted with oligodeoxynucleotides containing CpG motifs. *Poultry Science*, **2015**, 94, 1836-42	3.9	6
58	Innate immune response gene expression profiles in specific pathogen-free chickens infected with avian influenza virus subtype H9N2. *Biochip Journal*, **2013**, 7, 393-398	4	6
57	Integrated Bioaerosol Sampling/Monitoring Platform: Field-Deployable and Rapid Detection of Airborne Viruses. *ACS Sensors*, **2020**, 5, 3915-3922	9.2	6

56	Viscerotropic velogenic Newcastle disease virus replication in feathers of infected chickens. *Journal of Veterinary Science*, **2016**, 17, 115-7	1.6	5
55	Bioengineering a highly productive vaccine strain in embryonated chicken eggs and mammals from a non-pathogenic clade 2□3□4□4 H5N8 strain. *Vaccine*, **2019**, 37, 6154-6161	4.1	4
54	Experimental infection of dogs with highly pathogenic avian influenza virus (H5N8). *Journal of Veterinary Science*, **2017**, 18, 381-384	1.6	4
53	Rapid hemagglutinin subtyping of novel avian-origin influenza A(H7N9) virus using a diagnostic microarray. *Biochip Journal*, **2014**, 8, 55-59	4	4
52	Characterization of Salmonella enterica Serovar 4,[5],12:i:- Isolates from Korean Food Animals. *Foodborne Pathogens and Disease*, **2015**, 12, 766-9	3.8	4
51	Immunocontraceptive Effects in Male Rats Vaccinated with Gonadotropin-Releasing Hormone-I and -II Protein Complex. *Journal of Microbiology and Biotechnology*, **2019**, 29, 658-664	3.3	4
50	Cross-Species Transmission of Swine Hepatitis E Virus Genotype 3 to Rabbits. *Viruses*, **2020**, 12,	6.2	4
49	Comparison of microbiota in the cloaca, colon, and magnum of layer chicken. *PLoS ONE*, **2020**, 15, e0237108	3.7	4
48	Molecular characterization of highly pathogenic avian influenza H5N8 viruses isolated from Baikal teals found dead during a 2014 outbreak in Korea. *Journal of Veterinary Science*, **2016**, 17, 299-306	1.6	4
47	Experimental evidence of hepatitis A virus infection in pigs. *Journal of Medical Virology*, **2016**, 88, 631-8	19.7	4
46	Genetic diversity of the Korean field strains of porcine reproductive and respiratory syndrome virus. *Infection, Genetics and Evolution*, **2016**, 40, 288-294	4.5	4
45	Rapid Subtyping and Pathotyping of Avian Influenza Virus using Chip-based RT-PCR. *Biochip Journal* , **2019**, 13, 333-340	4	4
44	COVID-19 Subunit Vaccine with a Combination of TLR1/2 and TLR3 Agonists Induces Robust and Protective Immunity. *Vaccines*, **2021**, 9,	5.3	4
43	Pathogenesis of Human Norovirus Genogroup II Genotype 4 in Post-Weaning Gnotobiotic Pigs. *Journal of Microbiology and Biotechnology*, **2018**, 28, 2133-2140	3.3	4
42	Complete Genome Sequence of an Avian Paramyxovirus Type 4 Strain Isolated from Domestic Duck at a Live Bird Market in South Korea. *Genome Announcements*, **2017**, 5,		3
41	Isolation of an H5N8 Highly Pathogenic Avian Influenza Virus Strain from Wild Birds in Seoul, a Highly Urbanized Area in South Korea. *Journal of Wildlife Diseases*, **2017**, 53, 630-635	1.3	3
40	Evaluation of the protective effects of a nanogel-based vaccine against rabbit hepatitis E virus. *Vaccine*, **2019**, 37, 5972-5978	4.1	3
39	Optimized clade 2.3.2.1c H5N1 recombinant-vaccine strains against highly pathogenic avian influenza. *Journal of Veterinary Science*, **2017**, 18, 299-306	1.6	3

38	Molecular characterization and genetic diversity of avian paramyxovirus type 4 isolated in South Korea from 2013 to 2017. *Infection, Genetics and Evolution*, **2018**, 61, 127-133	4.5	3
37	Molecular Characterization of Avian Paramyxovirus Types 4 and 8 Isolated from Wild Migratory Waterfowl in Mongolia. *Journal of Wildlife Diseases*, **2018**, 54, 342-346	1.3	3
36	Experimental Infection of Chickens with Intercontinental Reassortant H9N2 Influenza Viruses from Wild Birds. *Avian Diseases*, **2016**, 60, 493-5	1.6	3
35	Optimal attenuation of a PR8-derived mouse pathogenic H5N1 recombinant virus for testing antigenicity and protective efficacy in mice. *Vaccine*, **2015**, 33, 6314-9	4.1	3
34	Development of porcine respiratory and reproductive syndrome virus replicon vector for foot-and-mouth disease vaccine. *Clinical and Experimental Vaccine Research*, **2014**, 3, 100-9	1.9	3
33	Detection of newly introduced Y280-lineage H9N2 avian influenza viruses in live bird markets in Korea. *Transboundary and Emerging Diseases*, **2021**,	4.2	3
32	Subclinical Infection and Transmission of Clade 2.3.4.4 H5N6 Highly Pathogenic Avian Influenza Virus in Mandarin Duck () and Domestic Pigeon (). *Viruses*, **2021**, 13,	6.2	3
31	Augmented immune responses in pigs immunized with an inactivated porcine reproductive and respiratory syndrome virus containing the deglycosylated glycoprotein 5 under field conditions. *Clinical and Experimental Vaccine Research*, **2016**, 5, 70-4	1.9	3
30	Heme Oxygenase-1 Exerts Antiviral Activity against Hepatitis A Virus In Vitro. *Pharmaceutics*, **2021**, 13,	6.4	3
29	Intranasal Administration Model for Evaluating Protection Against Influenza Virus in Mice. *Journal of Bacteriology and Virology*, **2015**, 45, 44	0.3	2
28	Simultaneous subtyping and pathotyping of the 2010⁄2011 South Korean HPAI outbreak strain by using a diagnostic microarray. *Biochip Journal*, **2011**, 5, 369-374	4	2
27	Live Recombinant NDV-Vectored H5 Vaccine Protects Chickens and Domestic Ducks From Lethal Infection of the Highly Pathogenic H5N6 Avian Influenza Virus.. *Frontiers in Veterinary Science*, **2021**, 8, 773715	3.1	2
26	A chimeric porcine reproductive and respiratory syndrome virus (PRRSV)-2 vaccine is safe under international guidelines and effective both in experimental and field conditions. *Research in Veterinary Science*, **2021**, 135, 143-152	2.5	2
25	Evaluation of insulated isothermal PCR devices for the detection of avian influenza virus. *Journal of Virological Methods*, **2021**, 292, 114126	2.6	2
24	Pathobiological and Genomic Characterization of a Cold-Adapted Infectious Bronchitis Virus (BP-caKII). *Viruses*, **2018**, 10,	6.2	2
23	Structure of SARS-CoV-2 Spike Glycoprotein for Therapeutic and Preventive Target. *Immune Network*, **2021**, 21, e8	6.1	2
22	Optimization of inactivated H5N9 highly pathogenic avian influenza vaccine and inactivated Salmonella enterica serovar Typhimurium vaccine with antigen dose and prime-boost regimen in domestic ducks. *Poultry Science*, **2017**, 96, 3079-3085	3.9	1
21	Simultaneous subtyping and pathotyping of the novel reassortant influenza A (H5N8) virus from clinical samples using a diagnostic microarray. *Biochip Journal*, **2016**, 10, 167-173	4	1

20	Comparison between dot-immunoblotting assay and clinical sign determination method for quantifying avian infectious bronchitis virus vaccine by titration in embryonated eggs. *Journal of Virological Methods*, **2016**, 230, 13-17	2.6	1
19	The possible origin of human adenovirus type 3: Evidence of natural genetic recombination between human and simian adenovirus. *Infection, Genetics and Evolution*, **2018**, 65, 380-384	4.5	1
18	Novel Mutations Evading Avian Immunity around the Receptor Binding Site of the Clade 2.3.2.1c Hemagglutinin Gene Reduce Viral Thermostability and Mammalian Pathogenicity. *Viruses*, **2019**, 11,	6.2	1
17	Pigs Immunized with the Virus-like Particle Vaccine Are Protected against the Hepatitis E-3 Virus. *Vaccines*, **2021**, 9,	5.3	1
16	Hemin as a novel candidate for treating COVID-19 via heme oxygenase-1 induction. *Scientific Reports*, **2021**, 11, 21462	4.9	1
15	Disinfection of various materials with 3-(trimethoxysilyl)-propyldimethyloctadecyl am-monium chloride in hatchery facilities. *Animal Bioscience*, **2021**,	0	1
14	The 3D8 single chain variable fragment protein suppresses Newcastle disease virus transmission in transgenic chickens. *BMC Veterinary Research*, **2020**, 16, 273	2.7	1
13	Genomic Analysis of Avian Infectious Bronchitis Viruses Recently Isolated in South Korea Reveals Multiple Introductions of GI-19 Lineage (QX Genotype). *Viruses*, **2021**, 13,	6.2	1
12	Asp149 and Asp152 in chicken and human ANP32A play an essential role in the interaction with influenza viral polymerase. *FASEB Journal*, **2021**, 35, e21630	0.9	1
11	Induction of immunocontraceptive effects in both male and female mice immunized with GnRH vaccine. *Veterinary Medicine and Science*, **2021**, 7, 1999-2007	2.1	1
10	An NIR dual-emitting/absorbing inorganic compact pair: A self-calibrating LRET system for homogeneous virus detection. *Biosensors and Bioelectronics*, **2021**, 190, 113369	11.8	1
9	Discrimination of Avian Influenza Virus Subtypes using Host-Cell Infection Fingerprinting by a Sulfinate-based Fluorescence Superoxide Probe. *Angewandte Chemie*, **2018**, 130, 9864-9869	3.6	0
8	Inhibition of endocytosis of porcine reproductive and respiratory syndrome virus by rottlerin and its potential prophylactic administration in piglets. *Antiviral Research*, **2021**, 195, 105191	10.8	0
7	Canine interferon lambda 3 expressed using an adenoviral vector effectively induces antiviral activity against canine influenza virus. *Virus Research*, **2021**, 296, 198342	6.4	0
6	Induction of IFN-□through TLR-3- and RIG-I-Mediated Signaling Pathways in Canine Respiratory Epithelial Cells Infected with H3N2 Canine Influenza Virus. *Journal of Microbiology and Biotechnology*, **2021**, 31, 942-948	3.3	0
5	Application of Diagnostic Microarray Technique in Subtyping and Pathotyping of Avian Influenza Viruses Isolated in Mongolia. *Journal of Bacteriology and Virology*, **2016**, 46, 22	0.3	
4	Comparison of microbiota in the cloaca, colon, and magnum of layer chicken **2020**, 15, e0237108		
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List of Publications

2 Comparison of microbiota in the cloaca, colon, and magnum of layer chicken **2020**, 15, e0237108

1 Comparison of microbiota in the cloaca, colon, and magnum of layer chicken **2020**, 15, e0237108