Sachin Kumar

List of Publications by Year
in descending order

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92 papers	1,763 citations	331670 21 h-index	345221 36 g-index
102 all docs	102 docs citations	102 times ranked	1925 citing authors

#	Article	IF	Citations
1	Newcastle disease virus: Current status and our understanding. Virus Research, 2014, 184, 71-81.	2.2	263
2	Synonymous codon usage pattern in glycoprotein gene of rabies virus. Gene, 2016, 584, 1-6.	2.2	76
3	Evaluation of the Newcastle Disease Virus F and HN Proteins in Protective Immunity by Using a Recombinant Avian Paramyxovirus Type 3 Vector in Chickens. Journal of Virology, 2011, 85, 6521-6534.	3.4	73
4	Immunization of Chickens with Newcastle Disease Virus Expressing H5 Hemagglutinin Protects against Highly Pathogenic H5N1 Avian Influenza Viruses. PLoS ONE, 2009, 4, e6509.	2.5	70
5	Contributions of the Avian Influenza Virus HA, NA, and M2 Surface Proteins to the Induction of Neutralizing Antibodies and Protective Immunity. Journal of Virology, 2010, 84, 2408-2420.	3.4	59
6	Complete genome sequence of avian paramyxovirus type 3 reveals an unusually long trailer region. Virus Research, 2008, 137, 189-197.	2.2	57
7	Organelle dynamics and viral infections: at cross roads. Microbes and Infection, 2019, 21, 20-32.	1.9	50
8	A recombinant Newcastle disease virus (NDV) expressing infectious laryngotracheitis virus (ILTV) surface glycoprotein D protects against highly virulent ILTV and NDV challenges in chickens. Vaccine, 2014, 32, 3555-3563.	3.8	49
9	Multifunctional N-Doped Carbon Dots for Bimodal Detection of Bilirubin and Vitamin B₁₂, Living Cell Imaging, and Fluorescent Ink. ACS Applied Bio Materials, 2021, 4, 5201-5211.	4.6	40
10	A single amino acid change, Q114R, in the cleavage-site sequence of Newcastle disease virus fusion protein attenuates viral replication and pathogenicity. Journal of General Virology, 2011, 92, 2333-2338.	2.9	37
11	Understanding the B and T cell epitopes of spike protein of severe acute respiratory syndrome coronavirus-2: A computational way to predict the immunogens. Infection, Genetics and Evolution, 2020, 84, 104382.	2.3	36
12	Sequence analysis of fusion protein gene of Newcastle disease virus isolated from outbreaks in Egypt during 2006. Virology Journal, 2011, 8, 237.	3.4	34
13	Tuning the solubility of ionophores: glutathione-mediated transport of chloride ions across hydrophobic membranes. Chemical Communications, 2019, 55, 8482-8485.	4.1	32
14	Effective protection by high efficiency bicistronic DNA vaccine against infectious bursal disease virus expressing VP2 protein and chicken IL-2. Vaccine, 2009, 27, 864-869.	3.8	31
15	Diphenylethylenediamine-Based Potent Anionophores: Transmembrane Chloride Ion Transport and Apoptosis Inducing Activities. ACS Applied Materials & Interfaces, 2018, 10, 33803-33813.	8.0	29
16	pH-Regulated anion transport activities of bis(iminourea) derivatives across the cell and vesicle membrane. Organic and Biomolecular Chemistry, 2019, 17, 5779-5788.	2.8	27
17	Extraction, characterization of xylan from Azadirachta indica (neem) sawdust and production of antiproliferative xylooligosaccharides. International Journal of Biological Macromolecules, 2020, 163, 1897-1907.	7.5	26
18	Complete genome sequence of avian paramyxovirus-3 strain Wisconsin: Evidence for the existence of subgroups within the serotype. Virus Research, 2010, 149, 78-85.	2.2	25

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19	Coordinate Deletion of N-Glycans from the Heptad Repeats of the Fusion F Protein of Newcastle Disease Virus Yields a Hyperfusogenic Virus with Increased Replication, Virulence, and Immunogenicity. Journal of Virology, 2012, 86, 2501-2511.	3.4	25
20	4,5-Disubstituted 1,2,3-triazoles: Effective Inhibition of Indoleamine 2,3-Dioxygenase 1 Enzyme Regulates T cell Activity and Mitigates Tumor Growth. Scientific Reports, 2019, 9, 18455.	3.3	24
21	Infectious laryngotracheitis: Etiology, epidemiology, pathobiology, and advances in diagnosis and control â€“ a comprehensive review. Veterinary Quarterly, 2020, 40, 140-161.	6.7	24
22	Computational guided drug repurposing for targeting 2â€²-O-ribose methyltransferase of SARS-CoV-2. Life Sciences, 2020, 259, 118169.	4.3	22
23	Chicken viperin inhibits Newcastle disease virus infection in vitro: A possible interaction with the viral matrix protein. Cytokine, 2019, 120, 28-40.	3.2	20
24	Complete Genome Sequence of a Newcastle Disease Virus Isolate from an Outbreak in Northern India. Genome Announcements, 2014, 2, .	0.8	19
25	Complete genome sequence of highly virulent neurotropic Newcastle disease virus strain Texas GB. Virus Genes, 2010, 41, 67-72.	1.6	18
26	Evidence of independent evolution of genotype XIII Newcastle disease viruses in India. Archives of Virology, 2017, 162, 997-1007.	2.1	18
27	Bacterial protein azurin and derived peptides as potential anti-SARS-CoV-2 agents: insights from molecular docking and molecular dynamics simulations. Journal of Biomolecular Structure and Dynamics, 2021, 39, 5706-5721.	3.5	18
28	Experimental avian paramyxovirus serotype-3 infection in chickens and turkeys. Veterinary Research, 2010, 41, 72.	3.0	17
29	Molecular characterization of genotype XIIIb Newcastle disease virus from central India during 2006â€“2012: Evidence of its panzootic potential. Microbial Pathogenesis, 2016, 99, 83-86.	2.9	16
30	Isolation of novel variants of infectious bursal disease virus from different outbreaks in Northeast India. Microbial Pathogenesis, 2016, 93, 131-136.	2.9	16
31	Molecular characterization of Newcastle disease virus strains isolated from different outbreaks in Northeast India during 2014â€“15. Microbial Pathogenesis, 2016, 91, 85-91.	2.9	16
32	Nanoparticle Assisted Regulation of Nucleation Pathway of Amyloid Tetramer and Inhibition of Their Fibrillation Kinetics. ACS Applied Bio Materials, 2019, 2, 2137-2142.	4.6	16
33	Emerging variant of genotype XIII Newcastle disease virus from Northeast India. Acta Tropica, 2017, 172, 64-69.	2.0	15
34	Newcastle disease virus outbreaks in India: Time to revisit the vaccine type and strategies. Vaccine, 2015, 33, 3268-3269.	3.8	14
35	Development of single dilution immunoassay to detect E2 protein specific classical swine fever virus antibody. Veterinary Immunology and Immunopathology, 2016, 172, 50-54.	1.2	14
36	Amyloid Targeting â€œArtificial Chaperoneâ€•Impairs Oligomer Mediated Neuronal Damage and Mitochondrial Dysfunction Associated with Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2020, 11, 3277-3287.	3.5	14

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37	The emergence of porcine circovirus 2 infections in the Northeastern part of India: A retrospective study from 2011 to 2017. Transboundary and Emerging Diseases, 2018, 65, 1959-1967.	3.0	13
38	Newcastle disease virus mediated apoptosis and migration inhibition of human oral cancer cells: A probable role of Î²-catenin and matrix metalloproteinase-7. Scientific Reports, 2019, 9, 10882.	3.3	13
39	Chloride Ion Transport by PITENINs across the Phospholipid Bilayers of Vesicles and Cells. ACS Applied Bio Materials, 2020, 3, 935-944.	4.6	13
40	Species Based Synonymous Codon Usage in Fusion Protein Gene of Newcastle Disease Virus. PLoS ONE, 2014, 9, e114754.	2.5	12
41	Molecular characterization of chicken anemia virus outbreaks in Nagpur province, India from 2012 to 2015. Microbial Pathogenesis, 2017, 102, 113-119.	2.9	12
42	Hit Multiple Targets with One Arrow: Pb²⁺ and ClO^{â€“} Detection by Edge Functionalized Graphene Quantum Dots and Their Applications in Living Cells. ACS Applied Bio Materials, 2021, 4, 7605-7614.	4.6	12
43	Sulfonium-based liposome-encapsulated antibiotics deliver a synergistic antibacterial activity. RSC Medicinal Chemistry, 2021, 12, 1005-1015.	3.9	12
44	Complete Genome Sequence of a Newcastle Disease Virus Isolate from an Outbreak in Central India. Genome Announcements, 2015, 3, .	0.8	11
45	Emergence of a deviating genotype VI pigeon paramyxovirus type-1 isolated from India. Archives of Virology, 2017, 162, 2169-2174.	2.1	11
46	Therapeutic potential of Nitazoxanide against Newcastle disease virus: A possible modulation of host cytokines. Cytokine, 2020, 131, 155115.	3.2	11
47	Lithium chloride functions as Newcastle disease virus-induced ER-stress modulator and confers anti-viral effect. Virus Research, 2021, 292, 198223.	2.2	11
48	Exploring rotavirus proteome to identify potential B- and T-cell epitope using computational immunoinformatics. Heliyon, 2020, 6, e05760.	3.2	11
49	Spectrum of Newcastle disease virus stability in gradients of temperature and pH. Biologicals, 2014, 42, 351-354.	1.4	10
50	Incidence of elephant endotheliotropic herpesvirus in Asian elephants in India. Veterinary Microbiology, 2017, 208, 159-163.	1.9	10
51	Evaluation of surface glycoproteins of classical swine fever virus as immunogens and reagents for serological diagnosis of infections in pigs: a recombinant Newcastle disease virus approach. Archives of Virology, 2019, 164, 3007-3017.	2.1	10
52	Evaluation of Japanese encephalitis virus E and NS1 proteins immunogenicity using a recombinant Newcastle disease virus in mice. Vaccine, 2020, 38, 1860-1868.	3.8	10
53	Modulation of tau protein aggregation using â€˜Trojanâ€™ sequences. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129569.	2.4	10
54	Recombinant phosphoprotein based single serum dilution ELISA for rapid serological detection of Newcastle disease virus. Journal of Virological Methods, 2015, 225, 64-69.	2.1	9

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55	Newcastle disease virus: A constant threat to the poultry industry in India. Vaccine, 2016, 34, 597-598.	3.8	9
56	Molecular characterization of classical swine fever virus isolates from India during 2012â€“14. Acta Tropica, 2017, 170, 184-189.	2.0	8
57	Template-Mediated Detoxification of Low-Molecular-Weight Amyloid Oligomers and Regulation of Their Nucleation Pathway. ACS Applied Bio Materials, 2019, 2, 5306-5312.	4.6	8
58	Glycoprotein D peptide-based diagnostic approach for the detection of avian infectious laryngotracheitis antibodies. Avian Pathology, 2019, 48, 602-609.	2.0	8
59	Limpid hydrogels from Î²-turn motif-connected tandem repeats of AÎ²16â€“22. Soft Matter, 2019, 15, 4827-4835.	2.7	8
60	Hydrogel Formation by an Aromatic Analogue of a Î²-Amyloid Fragment, AÎ²_{16â€“22}: A Scaffold for 3D Cell Culture. ACS Omega, 2019, 4, 620-627.	3.5	8
61	Sunlight-Mediated Thiolâ€“Ene/Yne Click Reaction: Synthesis and DNA Transfection Efficiency of New Cationic Lipids. ACS Omega, 2020, 5, 735-750.	3.5	8
62	Analysis of synonymous codon usage in the VP2 protein gene of infectious bursal disease virus. Archives of Virology, 2015, 160, 2359-2366.	2.1	7
63	Avian infectious laryngotracheitis: A neglected poultry health threat in India. Vaccine, 2016, 34, 4276-4277.	3.8	7
64	Characterization of duck plague virus stability at extreme conditions of temperature, pH and salt concentration. Biologicals, 2017, 45, 102-105.	1.4	7
65	Structure analysis of the nucleoprotein of Newcastle disease virus: An insight towards its multimeric form in solution. International Journal of Biological Macromolecules, 2020, 151, 402-411.	7.5	7
66	A systematic review and meta-analysis on the prevalence of infectious diseases of Duck: A world perspective. Saudi Journal of Biological Sciences, 2021, 28, 5131-5144.	3.8	7
67	Effects of Naturally Occurring Six- and Twelve-Nucleotide Inserts on Newcastle Disease Virus Replication and Pathogenesis. PLoS ONE, 2014, 9, e103951.	2.5	7
68	Isolation of genotype VII avian orthoavulavirus serotype 1 from barn owl from Northeast India. Avian Pathology, 2022, 51, 45-50.	2.0	7
69	Analysis of synonymous codon usage in spike protein gene of infectious bronchitis virus. Canadian Journal of Microbiology, 2015, 61, 983-989.	1.7	6
70	Enhanced cytopathic effect of Japanese encephalitis virus strain SA14-14-2: Probable association of mutation in amino acid of its envelope protein. Microbial Pathogenesis, 2017, 111, 187-192.	2.9	6
71	Analysis of codon usage pattern in the viral proteins of chicken anaemia virus and its possible biological relevance. Infection, Genetics and Evolution, 2019, 69, 93-106.	2.3	6
72	Modulating AÎ² Fibrillogenesis with â€˜Trojanâ€™ peptides. Neuropeptides, 2020, 81, 102030.	2.2	6

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73	DNA vaccine against infectious bursal disease virus: Still more to explore. Veterinary Microbiology, 2015, 175, 389-390.	1.9	5
74	Evaluation of infectious bursal disease virus stability at different conditions of temperature and pH. Biologicals, 2015, 43, 515-518.	1.4	5
75	Synonymous codon usage of genes in polymerase complex of Newcastle disease virus. Journal of Basic Microbiology, 2017, 57, 481-503.	3.3	5
76	Emergence of a genotype I variant of avian infectious bronchitis virus from Northern part of India. Acta Tropica, 2018, 183, 57-60.	2.0	5
77	Resiquimod inhibits Newcastle disease virus replication by modulating host cytokines: An understanding towards its possible therapeutics. Cytokine, 2020, 125, 154811.	3.2	5
78	Modulation of immune response in Ebola virus disease. Current Opinion in Pharmacology, 2021, 60, 158-167.	3.5	5
79	Insight towards the effect of the multi basic cleavage site of SARS-CoV-2 spike protein on cellular proteases. Virus Research, 2022, 318, 198845.	2.2	5
80	Production of recombinant Erns protein of classical swine fever virus and assessment of its enzymatic activity: A recombinant Newcastle disease virus-based approach. Process Biochemistry, 2018, 66, 113-119.	3.7	4
81	Analysis of codon usage pattern of infectious laryngotracheitis virus immunogenic glycoproteins and its biological implications. Infection, Genetics and Evolution, 2018, 62, 53-59.	2.3	3
82	Role of cholesterol in anatid herpesvirus 1 infections in vitro. Virus Research, 2020, 290, 198174.	2.2	3
83	Inhibition of immunosuppressive indoleamine 2,3-dioxygenase by targeting the heme and apo-form. Chemical Communications, 2021, 57, 395-398.	4.1	3
84	Molecular characterization of E2 glycoprotein of classical swine fever virus: adaptation and propagation in porcine kidney cells. In Vitro Cellular and Developmental Biology - Animal, 2015, 51, 441-446.	1.5	2
85	Sexual transmission of Zika virus: more to explore. The Lancet Global Health, 2018, 6, e618.	6.3	2
86	Reduction in antimicrobial resistance by the way of extensive vaccination. Human Vaccines and Immunotherapeutics, 2018, 14, 2955-2956.	3.3	2
87	Role of immunostimulatory molecules in poultry vaccines. Recent Patents on Biotechnology, 2010, 4, 235-41.	0.8	2
88	Characterization of nucleocapsid and matrix proteins of Newcastle disease virus in yeast. 3 Biotech, 2021, 11, 65.	2.2	1
89	Vaccines efficacy to SARS-CoV-2 variants require holistic knowledge of viral immunology and protein biochemistry. Human Vaccines and Immunotherapeutics, 2021, 17, 4128-4130.	3.3	1
90	Reverse Genetics and Its Usage in the Development of Vaccine Against Poultry Diseases. Methods in Molecular Biology, 2022, 2411, 77-92.	0.9	1

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91	Immune variants of SARS-CoV-2 could be a significant challenge for developing a pan genotype-specific vaccine. Human Vaccines and Immunotherapeutics, 2024, 17, 5145-5147.	3.3	0
92	Role of Immunostimulatory Molecules in Poultry Vaccines. Recent Patents on Biotechnology, 2010, , .	0.8	0