

Isabel Sola

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

10,803
citations

94415

37
h-index

95259

68
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76
all docs

76
docs citations

76
times ranked

19194
citing authors

#	ARTICLE	IF	CITATIONS
1	The species Severe acute respiratory syndrome-related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2. <i>Nature Microbiology</i> , 2020, 5, 536-544.	13.3	5,799
2	Continuous and Discontinuous RNA Synthesis in Coronaviruses. <i>Annual Review of Virology</i> , 2015, 2, 265-288.	6.7	525
3	Role of Severe Acute Respiratory Syndrome Coronavirus Viroporins E, 3a, and 8a in Replication and Pathogenesis. <i>MBio</i> , 2018, 9, .	4.1	248
4	Engineering a Replication-Competent, Propagation-Defective Middle East Respiratory Syndrome Coronavirus as a Vaccine Candidate. <i>MBio</i> , 2013, 4, e00650-13.	4.1	236
5	Sequence Motifs Involved in the Regulation of Discontinuous Coronavirus Subgenomic RNA Synthesis. <i>Journal of Virology</i> , 2004, 78, 980-994.	3.4	207
6	Construction of a Severe Acute Respiratory Syndrome Coronavirus Infectious cDNA Clone and a Replicon To Study Coronavirus RNA Synthesis. <i>Journal of Virology</i> , 2006, 80, 10900-10906.	3.4	198
7	Targeted Recombination Demonstrates that the Spike Gene of Transmissible Gastroenteritis Coronavirus Is a Determinant of Its Enteric Tropism and Virulence. <i>Journal of Virology</i> , 1999, 73, 7607-7618.	3.4	195
8	Biochemical Aspects of Coronavirus Replication and Virus-Host Interaction. <i>Annual Review of Microbiology</i> , 2006, 60, 211-230.	7.3	187
9	Coronavirus Nucleocapsid Protein Facilitates Template Switching and Is Required for Efficient Transcription. <i>Journal of Virology</i> , 2010, 84, 2169-2175.	3.4	171
10	Middle East Respiratory Coronavirus Accessory Protein 4a Inhibits PKR-Mediated Antiviral Stress Responses. <i>PLoS Pathogens</i> , 2016, 12, e1005982.	4.7	161
11	A conserved immunogenic and vulnerable site on the coronavirus spike protein delineated by cross-reactive monoclonal antibodies. <i>Nature Communications</i> , 2021, 12, 1715.	12.8	138
12	Molecular Basis of Coronavirus Virulence and Vaccine Development. <i>Advances in Virus Research</i> , 2016, 96, 245-286.	2.1	128
13	RNA-RNA and RNA-protein interactions in coronavirus replication and transcription. <i>RNA Biology</i> , 2011, 8, 237-248.	3.1	116
14	Coronavirus nucleocapsid protein is an RNA chaperone. <i>Virology</i> , 2007, 357, 215-227.	2.4	115
15	Role of Nucleotides Immediately Flanking the Transcription-Regulating Sequence Core in Coronavirus Subgenomic mRNA Synthesis. <i>Journal of Virology</i> , 2005, 79, 2506-2516.	3.4	112
16	Mutagenesis of Coronavirus nsp14 Reveals Its Potential Role in Modulation of the Innate Immune Response. <i>Journal of Virology</i> , 2016, 90, 5399-5414.	3.4	110
17	Adaptive Evolution of MERS-CoV to Species Variation in DPP4. <i>Cell Reports</i> , 2018, 24, 1730-1737.	6.4	108
18	Coronavirus Gene 7 Counteracts Host Defenses and Modulates Virus Virulence. <i>PLoS Pathogens</i> , 2011, 7, e1002090.	4.7	104

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19	MERS-CoV 4b protein interferes with the NF- κ B-dependent innate immune response during infection. <i>PLoS Pathogens</i> , 2018, 14, e1006838.	4.7	104
20	Coronavirus reverse genetic systems: Infectious clones and replicons. <i>Virus Research</i> , 2014, 189, 262-270.	2.2	100
21	Transmissible gastroenteritis coronavirus gene 7 is not essential but influences in vivo virus replication and virulence. <i>Virology</i> , 2003, 308, 13-22.	2.4	97
22	SARS-CoV-Encoded Small RNAs Contribute to Infection-Associated Lung Pathology. <i>Cell Host and Microbe</i> , 2017, 21, 344-355.	11.0	97
23	Transcription Regulatory Sequences and mRNA Expression Levels in the Coronavirus Transmissible Gastroenteritis Virus. <i>Journal of Virology</i> , 2002, 76, 1293-1308.	3.4	94
24	Eicosanoid signalling blockade protects middle-aged mice from severe COVID-19. <i>Nature</i> , 2022, 605, 146-151.	27.8	82
25	Engineering the Transmissible Gastroenteritis Virus Genome as an Expression Vector Inducing Lactogenic Immunity. <i>Journal of Virology</i> , 2003, 77, 4357-4369.	3.4	81
26	Specific Secretion of Active Single-Chain Fv Antibodies into the Supernatants of Escherichia coli Cultures by Use of the Hemolysin System. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5024-5029.	3.1	75
27	Engineering passive immunity in transgenic mice secreting virus-neutralizing antibodies in milk. <i>Nature Biotechnology</i> , 1998, 16, 349-354.	17.5	74
28	Complete genome sequence of transmissible gastroenteritis coronavirus PUR46-MAD clone and evolution of the purdue virus cluster. <i>Virus Genes</i> , 2001, 23, 105-118.	1.6	74
29	The Polypyrimidine Tract-Binding Protein Affects Coronavirus RNA Accumulation Levels and Relocalizes Viral RNAs to Novel Cytoplasmic Domains Different from Replication-Transcription Sites. <i>Journal of Virology</i> , 2011, 85, 5136-5149.	3.4	68
30	Chimeric camel/human heavy-chain antibodies protect against MERS-CoV infection. <i>Science Advances</i> , 2018, 4, eaas9667.	10.3	66
31	Host cell proteins interacting with the 3' end of TGEV coronavirus genome influence virus replication. <i>Virology</i> , 2009, 391, 304-314.	2.4	63
32	Identification of a Coronavirus Transcription Enhancer. <i>Journal of Virology</i> , 2008, 82, 3882-3893.	3.4	61
33	Canonical and Noncanonical Autophagy as Potential Targets for COVID-19. <i>Cells</i> , 2020, 9, 1619.	4.1	60
34	Role of RNA chaperones in virus replication. <i>Virus Research</i> , 2009, 139, 253-266.	2.2	49
35	Transgenic Mice Secreting Coronavirus Neutralizing Antibodies into the Milk. <i>Journal of Virology</i> , 1998, 72, 3762-3772.	3.4	47
36	Alphacoronavirus Protein 7 Modulates Host Innate Immune Response. <i>Journal of Virology</i> , 2013, 87, 9754-9767.	3.4	41

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37	Coronavirus derived expression systems. <i>Journal of Biotechnology</i> , 2001, 88, 183-204.	3.8	40
38	Vectored vaccines to protect against PRRSV. <i>Virus Research</i> , 2010, 154, 150-160.	2.2	37
39	Structure and Functional Relevance of a Transcription-Regulating Sequence Involved in Coronavirus Discontinuous RNA Synthesis. <i>Journal of Virology</i> , 2011, 85, 4963-4973.	3.4	37
40	An antibody derivative expressed from viral vectors passively immunizes pigs against transmissible gastroenteritis virus infection when supplied orally in crude plant extracts. <i>Plant Biotechnology Journal</i> , 2006, 4, 623-631.	8.3	36
41	An ACE2-blocking antibody confers broad neutralization and protection against Omicron and other SARS-CoV-2 variants of concern. <i>Science Immunology</i> , 2022, 7, eabp9312.	11.9	35
42	Cross-neutralization activity against SARS-CoV-2 is present in currently available intravenous immunoglobulins. <i>Immunotherapy</i> , 2020, 12, 1247-1255.	2.0	33
43	Long-Distance RNA-RNA Interactions in the Coronavirus Genome Form High-Order Structures Promoting Discontinuous RNA Synthesis during Transcription. <i>Journal of Virology</i> , 2013, 87, 177-186.	3.4	32
44	Virulence factors in porcine coronaviruses and vaccine design. <i>Virus Research</i> , 2016, 226, 142-151.	2.2	31
45	Use of virus vectors for the expression in plants of active full-length and single chain anti-coronavirus antibodies. <i>Biotechnology Journal</i> , 2006, 1, 1103-1111.	3.5	29
46	Transmissible Gastroenteritis Coronavirus Genome Packaging Signal Is Located at the 5' End of the Genome and Promotes Viral RNA Incorporation into Virions in a Replication-Independent Process. <i>Journal of Virology</i> , 2013, 87, 11579-11590.	3.4	27
47	Preclinical and randomized phase I studies of plitidepsin in adults hospitalized with COVID-19. <i>Life Science Alliance</i> , 2022, 5, e202101200.	2.8	26
48	Effects of Infection with Transmissible Gastroenteritis Virus on Concomitant Immune Responses to Dietary and Injected Antigens. <i>Vaccine Journal</i> , 2004, 11, 337-343.	2.6	22
49	Recombinant Chimeric Transmissible Gastroenteritis Virus (TGEV) - Porcine Epidemic Diarrhea Virus (PEDV) Virus Provides Protection against Virulent PEDV. <i>Viruses</i> , 2019, 11, 682.	3.3	22
50	In vitro and in vivo expression of foreign genes by transmissible gastroenteritis coronavirus-derived minigenomes. <i>Journal of General Virology</i> , 2002, 83, 567-579.	2.9	22
51	Contribution of Host miRNA-223-3p to SARS-CoV-Induced Lung Inflammatory Pathology. <i>MBio</i> , 2022, 13, e0313521.	4.1	22
52	Development of a Single-Cycle Infectious SARS-CoV-2 Virus Replicon Particle System for Use in Biosafety Level 2 Laboratories. <i>Journal of Virology</i> , 2022, 96, JVI0183721.	3.4	21
53	Gene N Proximal and Distal RNA Motifs Regulate Coronavirus Nucleocapsid mRNA Transcription. <i>Journal of Virology</i> , 2011, 85, 8968-8980.	3.4	18
54	Minimum Determinants of Transmissible Gastroenteritis Virus Enteric Tropism Are Located in the N-Terminus of Spike Protein. <i>Pathogens</i> , 2020, 9, 2.	2.8	15

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55	Genetically Engineered Live-Attenuated Middle East Respiratory Syndrome Coronavirus Viruses Confer Full Protection against Lethal Infection. <i>MBio</i> , 2021, 12, .	4.1	13
56	Recombinant dimeric small immunoproteins neutralize transmissible gastroenteritis virus infectivity efficiently in vitro and confer passive immunity in vivo. <i>Journal of General Virology</i> , 2007, 88, 187-195.	2.9	10
57	Middle East Respiratory Syndrome Coronavirus Gene 5 Modulates Pathogenesis in Mice. <i>Journal of Virology</i> , 2021, 95, .	3.4	10
58	Role of transcription regulatory sequence in regulation of gene expression and replication of porcine reproductive and respiratory syndrome virus. <i>Veterinary Research</i> , 2017, 48, 41.	3.0	9
59	Middle East respiratory syndrome coronavirus vaccine based on a propagation-defective RNA replicon elicited sterilizing immunity in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2111075118.	7.1	9
60	Biochemical Aspects of Coronavirus Replication. <i>Advances in Experimental Medicine and Biology</i> , 2006, 581, 13-24.	1.6	6
61	Reprint of: Coronavirus reverse genetic systems: Infectious clones and replicons. <i>Virus Research</i> , 2014, 194, 67-75.	2.2	5
62	Viral PDZ Binding Motifs Influence Cell Behavior Through the Interaction with Cellular Proteins Containing PDZ Domains. <i>Methods in Molecular Biology</i> , 2021, 2256, 217-236.	0.9	5
63	MOV10 Helicase Interacts with Coronavirus Nucleocapsid Protein and Has Antiviral Activity. <i>MBio</i> , 2021, 12, e0131621.	4.1	5
64	Antigenic structures stably expressed by recombinant TGEV-derived vectors. <i>Virology</i> , 2014, 464-465, 274-286.	2.4	4
65	Expression of Transcriptional Units Using Transmissible Gastroenteritis Coronavirus Derived Minigenomes and Full-length cDNA Clones. <i>Advances in Experimental Medicine and Biology</i> , 2001, 494, 447-451.	1.6	3
66	Suitability of transiently expressed antibodies for clinical studies: product quality consistency at different production scales. <i>MAbs</i> , 2022, 14, 2052228.	5.2	3
67	Regulation of Coronavirus Transcription: Viral and Cellular Proteins Interacting with Transcription-Regulating Sequences. <i>Advances in Experimental Medicine and Biology</i> , 2006, 581, 31-35.	1.6	2
68	Interference of Coronavirus Infection by Expression of IgG or IgA Virus Neutralizing Antibodies. <i>Advances in Experimental Medicine and Biology</i> , 1998, 440, 665-674.	1.6	1
69	Gene expression, virulence and vaccine development in coronaviruses. <i>Journal of Biotechnology</i> , 2008, 136, S212-S213.	3.8	0
70	Foreword. <i>Virus Research</i> , 2014, 194, 1-2.	2.2	0