

# Isabel Sola

## List of Publications by Citations

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72  
papers

7,560  
citations

35  
h-index

75  
g-index

75  
ext. papers

9,561  
ext. citations

8.4  
avg, IF

8.55  
L-index

#	Paper	IF	Citations
72	The species Severe acute respiratory syndrome-related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2. <i>Nature Microbiology</i> , <b>2020</b> , 5, 536-544	26.6	3797
71	Continuous and Discontinuous RNA Synthesis in Coronaviruses. <i>Annual Review of Virology</i> , <b>2015</b> , 2, 265-88	81.6	336
70	Engineering a replication-competent, propagation-defective Middle East respiratory syndrome coronavirus as a vaccine candidate. <i>MBio</i> , <b>2013</b> , 4, e00650-13	7.8	185
69	Sequence motifs involved in the regulation of discontinuous coronavirus subgenomic RNA synthesis. <i>Journal of Virology</i> , <b>2004</b> , 78, 980-94	6.6	179
68	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> , <b>1999</b> , 73, 7607-18	6.6	176
67	Role of Severe Acute Respiratory Syndrome Coronavirus Viroporins E, 3a, and 8a in Replication and Pathogenesis. <i>MBio</i> , <b>2018</b> , 9,	7.8	167
66	Construction of a severe acute respiratory syndrome coronavirus infectious cDNA clone and a replicon to study coronavirus RNA synthesis. <i>Journal of Virology</i> , <b>2006</b> , 80, 10900-6	6.6	153
65	Biochemical aspects of coronavirus replication and virus-host interaction. <i>Annual Review of Microbiology</i> , <b>2006</b> , 60, 211-30	17.5	153
64	Coronavirus nucleocapsid protein facilitates template switching and is required for efficient transcription. <i>Journal of Virology</i> , <b>2010</b> , 84, 2169-75	6.6	124
63	Middle East Respiratory Coronavirus Accessory Protein 4a Inhibits PKR-Mediated Antiviral Stress Responses. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005982	7.6	111
62	Coronavirus nucleocapsid protein is an RNA chaperone. <i>Virology</i> , <b>2007</b> , 357, 215-27	3.6	101
61	Role of nucleotides immediately flanking the transcription-regulating sequence core in coronavirus subgenomic mRNA synthesis. <i>Journal of Virology</i> , <b>2005</b> , 79, 2506-16	6.6	94
60	Transmissible gastroenteritis coronavirus gene 7 is not essential but influences in vivo virus replication and virulence. <i>Virology</i> , <b>2003</b> , 308, 13-22	3.6	92
59	Molecular Basis of Coronavirus Virulence and Vaccine Development. <i>Advances in Virus Research</i> , <b>2016</b> , 96, 245-286	10.7	90
58	Coronavirus gene 7 counteracts host defenses and modulates virus virulence. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002090	7.6	89
57	RNA-RNA and RNA-protein interactions in coronavirus replication and transcription. <i>RNA Biology</i> , <b>2011</b> , 8, 237-48	4.8	88
56	Mutagenesis of Coronavirus nsp14 Reveals Its Potential Role in Modulation of the Innate Immune Response. <i>Journal of Virology</i> , <b>2016</b> , 90, 5399-5414	6.6	84

55	Adaptive Evolution of MERS-CoV to Species Variation in DPP4. <i>Cell Reports</i> , <b>2018</b> , 24, 1730-1737	10.6	82
54	MERS-CoV 4b protein interferes with the NF- $\kappa$ B-dependent innate immune response during infection. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1006838	7.6	82
53	Engineering the transmissible gastroenteritis virus genome as an expression vector inducing lactogenic immunity. <i>Journal of Virology</i> , <b>2003</b> , 77, 4357-69	6.6	80
52	Gene expression, virulence and vaccine development in coronaviruses. <i>Journal of Biotechnology</i> , <b>2008</b> , 136, S212-S213	3.7	78
51	Transcription regulatory sequences and mRNA expression levels in the coronavirus transmissible gastroenteritis virus. <i>Journal of Virology</i> , <b>2002</b> , 76, 1293-308	6.6	76
50	Coronavirus reverse genetic systems: infectious clones and replicons. <i>Virus Research</i> , <b>2014</b> , 189, 262-70	6.4	71
49	Complete genome sequence of transmissible gastroenteritis coronavirus PUR46-MAD clone and evolution of the purdue virus cluster. <i>Virus Genes</i> , <b>2001</b> , 23, 105-18	2.3	67
48	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> , <b>2000</b> , 66, 5024-9	4.8	65
47	Engineering passive immunity in transgenic mice secreting virus-neutralizing antibodies in milk. <i>Nature Biotechnology</i> , <b>1998</b> , 16, 349-54	44.5	63
46	A conserved immunogenic and vulnerable site on the coronavirus spike protein delineated by cross-reactive monoclonal antibodies. <i>Nature Communications</i> , <b>2021</b> , 12, 1715	17.4	60
45	SARS-CoV-Encoded Small RNAs Contribute to Infection-Associated Lung Pathology. <i>Cell Host and Microbe</i> , <b>2017</b> , 21, 344-355	23.4	57
44	Chimeric camel/human heavy-chain antibodies protect against MERS-CoV infection. <i>Science Advances</i> , <b>2018</b> , 4, eaas9667	14.3	55
43	Identification of a coronavirus transcription enhancer. <i>Journal of Virology</i> , <b>2008</b> , 82, 3882-93	6.6	54
42	Host cell proteins interacting with the 3' end of TGEV coronavirus genome influence virus replication. <i>Virology</i> , <b>2009</b> , 391, 304-14	3.6	53
41	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> , <b>2011</b> , 85, 5136-49	6.6	53
40	Role of RNA chaperones in virus replication. <i>Virus Research</i> , <b>2009</b> , 139, 253-66	6.4	45
39	Transgenic mice secreting coronavirus neutralizing antibodies into the milk. <i>Journal of Virology</i> , <b>1998</b> , 72, 3762-72	6.6	42
38	Coronavirus derived expression systems. <i>Journal of Biotechnology</i> , <b>2001</b> , 88, 183-204	3.7	36

37	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> , <b>2006</b> , 4, 623-31	11.6	35
36	Canonical and Noncanonical Autophagy as Potential Targets for COVID-19. <i>Cells</i> , <b>2020</b> , 9,	7.9	34
35	Vectored vaccines to protect against PRRSV. <i>Virus Research</i> , <b>2010</b> , 154, 150-60	6.4	33
34	Alphacoronavirus protein 7 modulates host innate immune response. <i>Journal of Virology</i> , <b>2013</b> , 87, 9754-667	6.6	31
33	Structure and functional relevance of a transcription-regulating sequence involved in coronavirus discontinuous RNA synthesis. <i>Journal of Virology</i> , <b>2011</b> , 85, 4963-73	6.6	27
32	Long-distance RNA-RNA interactions in the coronavirus genome form high-order structures promoting discontinuous RNA synthesis during transcription. <i>Journal of Virology</i> , <b>2013</b> , 87, 177-86	6.6	24
31	Use of virus vectors for the expression in plants of active full-length and single chain anti-coronavirus antibodies. <i>Biotechnology Journal</i> , <b>2006</b> , 1, 1103-11	5.6	24
30	Virulence factors in porcine coronaviruses and vaccine design. <i>Virus Research</i> , <b>2016</b> , 226, 142-151	6.4	23
29	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> , <b>2013</b> , 87, 11579-90	6.6	20
28	In vitro and in vivo expression of foreign genes by transmissible gastroenteritis coronavirus-derived minigenomes. <i>Journal of General Virology</i> , <b>2002</b> , 83, 567-579	4.9	19
27	Cross-neutralization activity against SARS-CoV-2 is present in currently available intravenous immunoglobulins. <i>Immunotherapy</i> , <b>2020</b> , 12, 1247-1255	3.8	18
26	Effects of infection with transmissible gastroenteritis virus on concomitant immune responses to dietary and injected antigens. <i>Vaccine Journal</i> , <b>2004</b> , 11, 337-43		17
25	Gene N proximal and distal RNA motifs regulate coronavirus nucleocapsid mRNA transcription. <i>Journal of Virology</i> , <b>2011</b> , 85, 8968-80	6.6	15
24	Recombinant Chimeric Transmissible Gastroenteritis Virus (TGEV) - Porcine Epidemic Diarrhea Virus (PEDV) Virus Provides Protection against Virulent PEDV. <i>Viruses</i> , <b>2019</b> , 11,	6.2	13
23	Recombinant dimeric small immunoproteins neutralize transmissible gastroenteritis virus infectivity efficiently in vitro and confer passive immunity in vivo. <i>Journal of General Virology</i> , <b>2007</b> , 88, 187-195	4.9	10
22	Isolation of cross-reactive monoclonal antibodies against divergent human coronaviruses that delineate a conserved and vulnerable site on the spike protein		9
21	Eicosanoid signaling blockade protects middle-aged mice from severe COVID-19.. <i>Nature</i> , <b>2022</b> ,	50.4	9
20	Minimum Determinants of Transmissible Gastroenteritis Virus Enteric Tropism Are Located in the N-Terminus of Spike Protein. <i>Pathogens</i> , <b>2019</b> , 9,	4.5	7

19	Biochemical aspects of coronavirus replication. <i>Advances in Experimental Medicine and Biology</i> , <b>2006</b> , 581, 13-24	3.6	6
18	Preclinical and randomized phase I studies of plitidepsin in adults hospitalized with COVID-19.. <i>Life Science Alliance</i> , <b>2022</b> , 5,	5.8	6
17	Role of transcription regulatory sequence in regulation of gene expression and replication of porcine reproductive and respiratory syndrome virus. <i>Veterinary Research</i> , <b>2017</b> , 48, 41	3.8	5
16	An ACE2-blocking antibody confers broad neutralization and protection against Omicron and other SARS-CoV-2 variants of concern.. <i>Science Immunology</i> , <b>2022</b> , eabp9312	2.8	5
15	Antigenic structures stably expressed by recombinant TGEV-derived vectors. <i>Virology</i> , <b>2014</b> , 464-465, 274-286	3.6	4
14	Middle East Respiratory Syndrome Coronavirus Gene 5 Modulates Pathogenesis in Mice. <i>Journal of Virology</i> , <b>2021</b> , 95,	6.6	4
13	Reprint of: Coronavirus reverse genetic systems: infectious clones and replicons. <i>Virus Research</i> , <b>2014</b> , 194, 67-75	6.4	3
12	The deubiquitinating activity of Middle East respiratory syndrome coronavirus papain-like protease delays the innate immune response and enhances virulence in a mouse model		3
11	Genetically Engineered Live-Attenuated Middle East Respiratory Syndrome Coronavirus Viruses Confer Full Protection against Lethal Infection. <i>MBio</i> , <b>2021</b> , 12,	7.8	3
10	Expression of transcriptional units using transmissible gastroenteritis coronavirus derived minigenomes and full-length cDNA clones. <i>Advances in Experimental Medicine and Biology</i> , <b>2001</b> , 494, 447-51	3.6	3
9	Development of a Single-cycle Infectious SARS-CoV-2 Virus Replicon Particle System for use in BSL2 Laboratories. <i>Journal of Virology</i> , <b>2021</b> , JVI0183721	6.6	2
8	Cross-neutralization activity against SARS-CoV-2 is present in currently available intravenous immunoglobulins <sup>2</sup>		
7	Viral PDZ Binding Motifs Influence Cell Behavior Through the Interaction with Cellular Proteins Containing PDZ Domains. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2256, 217-236	1.4	2
6	MOV10 Helicase Interacts with Coronavirus Nucleocapsid Protein and Has Antiviral Activity. <i>MBio</i> , <b>2021</b> , 12, e0131621	7.8	2
5	Regulation of coronavirus transcription: viral and cellular proteins interacting with transcription-regulating sequences. <i>Advances in Experimental Medicine and Biology</i> , <b>2006</b> , 581, 31-5	3.6	2
4	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> , <b>2021</b> , 118,	11.5	1
3	Contribution of Host miRNA-223-3p to SARS-CoV-Induced Lung Inflammatory Pathology.. <i>MBio</i> , <b>2022</b> , e0313521	7.8	1
2	Suitability of transiently expressed antibodies for clinical studies: product quality consistency at different production scales.. <i>MAbs</i> , <b>2022</b> , 14, 2052228	6.6	0

- 1 Interference of coronavirus infection by expression of IgG or IgA virus neutralizing antibodies.  
*Advances in Experimental Medicine and Biology*, **1998**, 440, 665-74

3.6