

# Susan C Baker

## List of Publications by Citations

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97  
papers

9,348  
citations

45  
h-index

96  
g-index

98  
ext. papers

10,984  
ext. citations

6.6  
avg, IF

6.02  
L-index

#	Paper	IF	Citations
97	Global conservation outcomes depend on marine protected areas with five key features. <i>Nature</i> , <b>2014</b> , 506, 216-20	50.4	1017
96	Middle East respiratory syndrome coronavirus (MERS-CoV): announcement of the Coronavirus Study Group. <i>Journal of Virology</i> , <b>2013</b> , 87, 7790-2	6.6	796
95	Retention Forestry to Maintain Multifunctional Forests: A World Perspective. <i>BioScience</i> , <b>2012</b> , 62, 633-645	6.7	540
94	Ribose 2RO-methylation provides a molecular signature for the distinction of self and non-self mRNA dependent on the RNA sensor Mda5. <i>Nature Immunology</i> , <b>2011</b> , 12, 137-43	19.1	511
93	The papain-like protease of severe acute respiratory syndrome coronavirus has deubiquitinating activity. <i>Journal of Virology</i> , <b>2005</b> , 79, 15189-98	6.6	379
92	Integrating abundance and functional traits reveals new global hotspots of fish diversity. <i>Nature</i> , <b>2013</b> , 501, 539-42	50.4	337
91	RNA replication of mouse hepatitis virus takes place at double-membrane vesicles. <i>Journal of Virology</i> , <b>2002</b> , 76, 3697-708	6.6	336
90	Identification of severe acute respiratory syndrome coronavirus replicase products and characterization of papain-like protease activity. <i>Journal of Virology</i> , <b>2004</b> , 78, 13600-12	6.6	317
89	A noncovalent class of papain-like protease/deubiquitinase inhibitors blocks SARS virus replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 16119-24	11.5	295
88	Severe acute respiratory syndrome coronavirus papain-like protease: structure of a viral deubiquitinating enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 5717-22	11.5	295
87	Regulation of IRF-3-dependent innate immunity by the papain-like protease domain of the severe acute respiratory syndrome coronavirus. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 32208-21	5.4	295
86	Can retention forestry help conserve biodiversity? A meta-analysis. <i>Journal of Applied Ecology</i> , <b>2014</b> , 51, 1669-1679	5.8	243
85	Deubiquitinating and interferon antagonism activities of coronavirus papain-like proteases. <i>Journal of Virology</i> , <b>2010</b> , 84, 4619-29	6.6	224
84	Coronavirus nonstructural protein 15 mediates evasion of dsRNA sensors and limits apoptosis in macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E4251-E4260	11.5	197
83	Coronavirus papain-like proteases negatively regulate antiviral innate immune response through disruption of STING-mediated signaling. <i>PLoS ONE</i> , <b>2012</b> , 7, e30802	3.7	188
82	MERS-CoV papain-like protease has deISGylating and deubiquitinating activities. <i>Virology</i> , <b>2014</b> , 450-451, 64-70	3.6	160
81	Structural Basis for the Ubiquitin-Linkage Specificity and deISGylating activity of SARS-CoV papain-like protease. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004113	7.6	139

80	Coronavirus endoribonuclease targets viral polyuridine sequences to evade activating host sensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 8094-8103	11.5	138
79	Discovery, synthesis, and structure-based optimization of a series of N-(tert-butyl)-2-(N-arylamido)-2-(pyridin-3-yl) acetamides (ML188) as potent noncovalent small molecule inhibitors of the severe acute respiratory syndrome coronavirus (SARS-CoV) 3CL protease. <i>Journal of Medicinal Chemistry</i> , <b>2013</b> , 56, 534-46	8.3	130
78	X-ray structural and biological evaluation of a series of potent and highly selective inhibitors of human coronavirus papain-like proteases. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 2393-412	8.3	118
77	Nidovirus papain-like proteases: multifunctional enzymes with protease, deubiquitinating and deISGylating activities. <i>Virus Research</i> , <b>2014</b> , 194, 184-90	6.4	109
76	Assessing activity and inhibition of Middle East respiratory syndrome coronavirus papain-like and 3C-like proteases using luciferase-based biosensors. <i>Journal of Virology</i> , <b>2013</b> , 87, 11955-62	6.6	105
75	The papain-like protease of porcine epidemic diarrhea virus negatively regulates type I interferon pathway by acting as a viral deubiquitinase. <i>Journal of General Virology</i> , <b>2013</b> , 94, 1554-1567	4.9	103
74	Design and synthesis of peptidomimetic severe acute respiratory syndrome chymotrypsin-like protease inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 6767-71	8.3	98
73	Severe acute respiratory syndrome coronavirus papain-like novel protease inhibitors: design, synthesis, protein-ligand X-ray structure and biological evaluation. <i>Journal of Medicinal Chemistry</i> , <b>2010</b> , 53, 4968-79	8.3	96
72	Colocalization and membrane association of murine hepatitis virus gene 1 products and De novo-synthesized viral RNA in infected cells. <i>Journal of Virology</i> , <b>1999</b> , 73, 5957-69	6.6	94
71	Catalytic function and substrate specificity of the papain-like protease domain of nsp3 from the Middle East respiratory syndrome coronavirus. <i>Journal of Virology</i> , <b>2014</b> , 88, 12511-27	6.6	88
70	The harvested side of edges: Effect of retained forests on the re-establishment of biodiversity in adjacent harvested areas. <i>Forest Ecology and Management</i> , <b>2013</b> , 302, 107-121	3.9	88
69	Structure-based design, synthesis, and biological evaluation of a series of novel and reversible inhibitors for the severe acute respiratory syndrome-coronavirus papain-like protease. <i>Journal of Medicinal Chemistry</i> , <b>2009</b> , 52, 5228-40	8.3	86
68	Design, synthesis and antiviral efficacy of a series of potent chloropyridyl ester-derived SARS-CoV 3CLpro inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2008</b> , 18, 5684-8	2.9	82
67	Processing of the coronavirus MHV-JHM polymerase polyprotein: identification of precursors and proteolytic products spanning 400 kilodaltons of ORF1a. <i>Virology</i> , <b>1998</b> , 242, 288-302	3.6	78
66	An "Old" protein with a new story: Coronavirus endoribonuclease is important for evading host antiviral defenses. <i>Virology</i> , <b>2018</b> , 517, 157-163	3.6	76
65	Structure-based design, synthesis, and biological evaluation of peptidomimetic SARS-CoV 3CLpro inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2007</b> , 17, 5876-80	2.9	76
64	Proteolytic processing and deubiquitinating activity of papain-like proteases of human coronavirus NL63. <i>Journal of Virology</i> , <b>2007</b> , 81, 6007-18	6.6	76
63	Membrane topology of murine coronavirus replicase nonstructural protein 3. <i>Virology</i> , <b>2007</b> , 361, 391-403	3.6	74

62	Coronavirus infection modulates the unfolded protein response and mediates sustained translational repression. <i>Journal of Virology</i> , <b>2008</b> , 82, 4492-501	6.6	69
61	Identification of mouse hepatitis virus papain-like proteinase 2 activity. <i>Journal of Virology</i> , <b>2000</b> , 74, 7911-21	6.6	67
60	Coronavirus Endoribonuclease Activity in Porcine Epidemic Diarrhea Virus Suppresses Type I and Type III Interferon Responses. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	63
59	Coronaviruses resistant to a 3C-like protease inhibitor are attenuated for replication and pathogenesis, revealing a low genetic barrier but high fitness cost of resistance. <i>Journal of Virology</i> , <b>2014</b> , 88, 11886-98	6.6	61
58	Variable retention silviculture in Tasmania's wet forests: ecological rationale, adaptive management and synthesis of biodiversity benefits. <i>Australian Forestry</i> , <b>2011</b> , 74, 218-232	2.1	58
57	Microclimate through space and time: Microclimatic variation at the edge of regeneration forests over daily, yearly and decadal time scales. <i>Forest Ecology and Management</i> , <b>2014</b> , 334, 174-184	3.9	51
56	Moving beyond the guild concept: developing a practical functional trait framework for terrestrial beetles. <i>Ecological Entomology</i> , <b>2015</b> , 40, 1-13	2.1	51
55	The papain-like protease determines a virulence trait that varies among members of the SARS-coronavirus species. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007296	7.6	49
54	Masitinib is a broad coronavirus 3CL inhibitor that blocks replication of SARS-CoV-2. <i>Science</i> , <b>2021</b> , 373, 931-936	33.3	49
53	The transcriptional profile of coronary arteritis in Kawasaki disease. <i>BMC Genomics</i> , <b>2015</b> , 16, 1076	4.5	46
52	Cell-based antiviral screening against coronaviruses: developing virus-specific and broad-spectrum inhibitors. <i>Antiviral Research</i> , <b>2014</b> , 101, 105-12	10.8	44
51	Evaluating spatial autocorrelation and depletion in pitfall-trap studies of environmental gradients. <i>Journal of Insect Conservation</i> , <b>2006</b> , 10, 269-276	2.1	40
50	Does clearfell, burn and sow silviculture mimic the effect of wildfire? A field study and review using litter beetles. <i>Forest Ecology and Management</i> , <b>2004</b> , 199, 433-448	3.9	39
49	Murine coronavirus ubiquitin-like domain is important for papain-like protease stability and viral pathogenesis. <i>Journal of Virology</i> , <b>2015</b> , 89, 4907-17	6.6	38
48	Short-term responses of ground-active beetles to alternative silvicultural systems in the Warra Silvicultural Systems Trial, Tasmania, Australia. <i>Forest Ecology and Management</i> , <b>2009</b> , 258, 444-459	3.9	35
47	Biodiversity consequences of genetic variation in bark characteristics within a foundation tree species. <i>Conservation Biology</i> , <b>2009</b> , 23, 1146-55	6	33
46	A practical guide to DNA metabarcoding for entomological ecologists. <i>Ecological Entomology</i> , <b>2020</b> , 45, 373-385	2.1	32
45	X-ray Structure and Enzymatic Activity Profile of a Core Papain-like Protease of MERS Coronavirus with utility for structure-based drug design. <i>Scientific Reports</i> , <b>2017</b> , 7, 40292	4.9	29

44	A footprint of tree-genetics on the biota of the forest floor. <i>Oikos</i> , <b>2009</b> , 118, 1917-1923	4	27
43	A comparison of litter beetle assemblages (Coleoptera) in mature and recently clearfelled Eucalyptus obliqua forest. <i>Australian Journal of Entomology</i> , <b>2006</b> , 45, 130-136		27
42	X-ray Structural and Functional Studies of the Three Tandemly Linked Domains of Non-structural Protein 3 (nsp3) from Murine Hepatitis Virus Reveal Conserved Functions. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 25293-306	5.4	24
41	Coronavirus Endoribonuclease and Deubiquitinating Interferon Antagonists Differentially Modulate the Host Response during Replication in Macrophages. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	23
40	Estimating edge effects on ground-dwelling beetles at clearfelled non-riparian stand edges in Tasmanian wet eucalypt forest. <i>Forest Ecology and Management</i> , <b>2007</b> , 239, 92-101	3.9	23
39	Drug repurposing screen identifies masitinib as a 3CLpro inhibitor that blocks replication of SARS-CoV-2 <b>2020</b> ,		23
38	Analysis of Coronavirus Temperature-Sensitive Mutants Reveals an Interplay between the Macrodomein and Papain-Like Protease Impacting Replication and Pathogenesis. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	19
37	Burning outcomes following aggregated retention harvesting in old-growth wet eucalypt forests. <i>Forest Ecology and Management</i> , <b>2012</b> , 276, 165-173	3.9	19
36	Impact of distance to mature forest on the recolonisation of bryophytes in a regenerating Tasmanian wet eucalypt forest. <i>Australian Journal of Botany</i> , <b>2013</b> , 61, 633	1.2	18
35	A Protein Epitope Targeted by the Antibody Response to Kawasaki Disease. <i>Journal of Infectious Diseases</i> , <b>2020</b> , 222, 158-168	7	17
34	A chimeric virus-mouse model system for evaluating the function and inhibition of papain-like proteases of emerging coronaviruses. <i>Journal of Virology</i> , <b>2014</b> , 88, 11825-33	6.6	17
33	The effects of mechanical disturbance and burn intensity on the floristic composition of two-year old aggregated retention coupes in Tasmanian wet eucalypt forests. <i>Forest Ecology and Management</i> , <b>2012</b> , 279, 55-65	3.9	16
32	Comparison of feeding efficiency, development time and survival of Tasmanian eucalyptus leaf beetle larvae Chrysophtharta bimaculata (Olivier) (Coleoptera: Chrysomelidae) on two hosts. <i>Australian Journal of Entomology</i> , <b>2002</b> , 41, 174-181		16
31	Using aerial photographs to remotely assess tree hollow availability. <i>Biodiversity and Conservation</i> , <b>2011</b> , 20, 1089-1101	3.4	15
30	Why conservation reserves should not always be concentrated in riparian areas: A study of ground-dwelling beetles in wet eucalypt forest. <i>Biological Conservation</i> , <b>2006</b> , 133, 156-168	6.2	15
29	Allograft Inflammatory Factor-1 Links T-Cell Activation, Interferon Response, and Macrophage Activation in Chronic Kawasaki Disease Arteritis. <i>Journal of the Pediatric Infectious Diseases Society</i> , <b>2017</b> , 6, e94-e102	4.8	14
28	Inundative release of coccinellid beetles into eucalypt plantations for biological control of chrysomelid leaf beetles. <i>Agricultural and Forest Entomology</i> , <b>2003</b> , 5, 97-106	1.9	14
27	Structure-Guided Mutagenesis Alters Deubiquitinating Activity and Attenuates Pathogenesis of a Murine Coronavirus. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	13

26	SARS-CoV-2 desensitizes host cells to interferon through inhibition of the JAK-STAT pathway <b>2020</b> ,		13
25	SARS-CoV-2 Disrupts Proximal Elements in the JAK-STAT Pathway. <i>Journal of Virology</i> , <b>2021</b> , 95, e00862316		13
24	Detecting SARS-CoV-2 3CLpro expression and activity using a polyclonal antiserum and a luciferase-based biosensor. <i>Virology</i> , <b>2021</b> , 556, 73-78	3.6	12
23	Influence of Mature Overstory Trees on Adjacent 12-Year Regeneration and the Woody Understory: Aggregated Retention versus Intact Forest. <i>Forests</i> , <b>2017</b> , 8, 31	2.8	10
22	Timing and frequency are the critical factors affecting the impact of defoliation on long term growth of plantation eucalypts. <i>Forest Ecology and Management</i> , <b>2017</b> , 391, 1-8	3.9	9
21	Bird assemblages in Tasmanian clearcuts are influenced by the age of eucalypt regeneration but not by distance from mature forest. <i>Global Ecology and Conservation</i> , <b>2014</b> , 2, 138-147	2.8	9
20	Calculating food consumption in the laboratory: A formula to adjust for natural weight loss. <i>Australian Journal of Entomology</i> , <b>2002</b> , 41, 170-173		9
19	Inactivating Three Interferon Antagonists Attenuates Pathogenesis of an Enteric Coronavirus. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	8
18	Quantifying floristic and structural forest maturity: An attribute-based method for wet eucalypt forests. <i>Journal of Applied Ecology</i> , <b>2018</b> , 55, 1668-1681	5.8	8
17	Factors influencing initial vascular plant seedling composition following either aggregated retention harvesting and regeneration burning or burning of unharvested forest. <i>Forest Ecology and Management</i> , <b>2013</b> , 306, 192-201	3.9	8
16	Short-term responses of native rodents to aggregated retention in old growth wet Eucalyptus forests. <i>Forest Ecology and Management</i> , <b>2012</b> , 267, 18-27	3.9	8
15	Coronavirus infection induces progressive restructuring of the endoplasmic reticulum involving the formation and degradation of double membrane vesicles. <i>Virology</i> , <b>2021</b> , 556, 9-22	3.6	8
14	Identifying regrowth forests with advanced mature forest values. <i>Forest Ecology and Management</i> , <b>2019</b> , 433, 73-84	3.9	8
13	Characterizing replication kinetics and plaque production of type I feline infectious peritonitis virus in three feline cell lines. <i>Virology</i> , <b>2018</b> , 525, 1-9	3.6	7
12	Generating and evaluating type I interferon receptor-deficient and feline TMPRSS2-expressing cells for propagating serotype I feline infectious peritonitis virus. <i>Virology</i> , <b>2019</b> , 537, 226-236	3.6	6
11	Distance, environmental and substrate factors impacting recovery of bryophyte communities after harvesting. <i>Applied Vegetation Science</i> , <b>2018</b> , 21, 64-75	3.3	6
10	Breakthrough Infections with Multiple Lineages of SARS-CoV-2 Variants Reveals Continued Risk of Severe Disease in Immunosuppressed Patients. <i>Viruses</i> , <b>2021</b> , 13,	6.2	6
9	The potential of trait-based approaches to contribute to marine conservation. <i>Marine Policy</i> , <b>2015</b> , 51, 148-150	3.5	4

8	The effectiveness of streamside versus upslope reserves in conserving log-associated bryophytes of native production forests. <i>Forest Ecology and Management</i> , <b>2016</b> , 373, 66-73	3.9	4
7	Response of ground-dwelling beetles across logging coupe edges into streamside reserves. <i>Australian Journal of Entomology</i> , <b>2009</b> , 48, 194-203		4
6	Retention forestry influences understory diversity and functional identity. <i>Ecological Applications</i> , <b>2020</b> , 30, e02097	4.9	3
5	Development and utilization of an infectious clone for porcine deltacoronavirus strain USA/IL/2014/026. <i>Virology</i> , <b>2021</b> , 553, 35-45	3.6	3
4	DNA metabarcoding captures subtle differences in forest beetle communities following disturbance. <i>Restoration Ecology</i> , <b>2020</b> , 28, 1475-1484	3.1	1
3	Relationships between coarse woody debris habitat quality and forest maturity attributes. <i>Conservation Science and Practice</i> , <b>2019</b> , 1, e55	2.2	1
2	Structure-Guided Mutagenesis Alters Deubiquitinating Activity and Attenuates Pathogenesis of a Murine Coronavirus		1
1	A highly sensitive cell-based luciferase assay for high-throughput automated screening of SARS-CoV-2 nsp5/3CLpro inhibitors. <b>2021</b> ,		1