Karla Helbig

List of Publications by Year
in descending order

73 papers	2,972 citations	218677 26 h-index	175258 52 g-index
77 all docs	77 docs citations	77 times ranked	3971 citing authors

#	Article	IF	Citations
1	Large deletions induced by Cas9 cleavage. Nature, 2018, 560, E8-E9.	27.8	269
2	Analysis of ISG expression in chronic hepatitis C identifies viperin as a potential antiviral effector. Hepatology, 2005, 42, 702-710.	7.3	225
3	The Role of Viperin in the Innate Antiviral Response. Journal of Molecular Biology, 2014, 426, 1210-1219.	4.2	191
4	The antiviral protein viperin inhibits hepatitis C virus replication via interaction with nonstructural protein 5A. Hepatology, 2011, 54, 1506-1517.	7.3	186
5	HIV-1 infection of human macrophages directly induces viperin which inhibits viral production. Blood, 2012, 120, 778-788.	1.4	184
6	Viperin Is Induced following Dengue Virus Type-2 (DENV-2) Infection and Has Anti-viral Actions Requiring the C-terminal End of Viperin. PLoS Neglected Tropical Diseases, 2013, 7, e2178.	3.0	145
7	Interferon-Stimulated Genes as Enhancers of Antiviral Innate Immune Signaling. Journal of Innate Immunity, 2018, 10, 85-93.	3.8	132
8	The Interferon-induced Transmembrane Proteins, IFITM1, IFITM2, and IFITM3 Inhibit Hepatitis C Virus Entry. Journal of Biological Chemistry, 2015, 290, 25946-25959.	3.4	128
9	Expression of the CXCR3 ligand I-TAC by hepatocytes in chronic hepatitis C and its correlation with hepatic inflammation. Hepatology, 2004, 39, 1220-1229.	7.3	111
10	CD4+ T-Cell Deficiency in HIV Patients Responding to Antiretroviral Therapy Is Associated With Increased Expression of Interferon-Stimulated Genes in CD4+ T Cells. Journal of Infectious Diseases, 2011, 204, 1927-1935.	4.0	100
11	Viperin is an important host restriction factor in control of Zika virus infection. Scientific Reports, 2017, 7, 4475.	3.3	98
12	Intracellular lipid droplet accumulation occurs early following viral infection and is required for an efficient interferon response. Nature Communications, 2021, 12, 4303.	12.8	70
13	Alcohol Metabolism Increases the Replication of Hepatitis C Virus and Attenuates the Antiviral Action of Interferon. Journal of Infectious Diseases, 2008, 198, 1766-1775.	4.0	66
14	Differential Expression of the CXCR3 Ligands in Chronic Hepatitis C Virus (HCV) Infection and Their Modulation by HCV In Vitro. Journal of Virology, 2009, 83, 836-846.	3.4	66
15	Primed for success: Oyster parents treated with poly(I:C) produce offspring with enhanced protection against Ostreid herpesvirus type I infection. Molecular Immunology, 2016, 78, 113-120.	2.2	55
16	Signal transducer and activator of transcription 3 is a proviral host factor for hepatitis C virus. Hepatology, 2013, 58, 1558-1568.	7.3	54
17	The Complex Diseases of Staphylococcus pseudintermedius in Canines: Where to Next?. Veterinary Sciences, 2021, 8, 11.	1.7	52
18	Lipid droplets and lipid mediators in viral infection and immunity. FEMS Microbiology Reviews, 2021, 45, .	8.6	52

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19	Genomic characterization of two novel pathogenic avipoxviruses isolated from pacific shearwaters (Ardenna spp.). BMC Genomics, 2017, 18, 298.	2.8	51
20	Dynamic Imaging of the Hepatitis C Virus NS5A Protein during a Productive Infection. Journal of Virology, 2014, 88, 3636-3652.	3.4	49
21	Lipid droplet density alters the early innate immune response to viral infection. PLoS ONE, 2018, 13, e0190597.	2.5	49
22	Mechanism of Interferon-Stimulated Gene Induction in HIV-1-Infected Macrophages. Journal of Virology, 2017, 91, .	3.4	46
23	Dengue Virus Infection of Primary Endothelial Cells Induces Innate Immune Responses, Changes in Endothelial Cells Function and Is Restricted by Interferon-Stimulated Responses. Journal of Interferon and Cytokine Research, 2015, 35, 654-665.	1.2	30
24	A novel assay for detection of hepatitis C virus-specific effector CD4+ T cells via co-expression of CD25 and CD134. Journal of Immunological Methods, 2012, 375, 148-158.	1.4	29
25	Osteopontin increases hepatocellular carcinoma cell growth in a CD44 dependant manner. World Journal of Gastroenterology, 2012, 18, 3389.	3.3	29
26	Immune response genes in the post-Q-fever fatigue syndrome, Q fever endocarditis and uncomplicated acute primary Q fever. QJM - Monthly Journal of the Association of Physicians, 2005, 98, 565-574.	0.5	27
27	Molecular characterization of the first saltwater crocodilepox virus genome sequences from the worldâ€™s largest living member of the Crocodylia. Scientific Reports, 2018, 8, 5623.	3.3	27
28	Molecular and microscopic characterization of a novel Eastern grey kangaroopox virus genome directly from a clinical sample. Scientific Reports, 2017, 7, 16472.	3.3	26
29	Oyster viperin retains direct antiviral activity and its transcription occurs via a signalling pathway involving a heat-stable haemolymph protein. Journal of General Virology, 2015, 96, 3587-3597.	2.9	26
30	Variation in immune response genes and chronic Q fever. Concepts: preliminary test with post-Q fever fatigue syndrome. Genes and Immunity, 2003, 4, 82-85.	4.1	25
31	Genome sequence of an Australian strain of <i>canid alphaherpesvirus 1</i>. Australian Veterinary Journal, 2018, 96, 24-27.	1.1	25
32	Viperin binds STING and enhances the typeâ€ł interferon response following dsDNA detection. Immunology and Cell Biology, 2021, 99, 373-391.	2.3	25
33	Molecular characterisation of a novel pathogenic avipoxvirus from the Australian magpie (Gymnorhina tibicen). Virology, 2020, 540, 1-16.	2.4	24
34	Crocodilepox Virus Evolutionary Genomics Supports Observed Poxvirus Infection Dynamics on Saltwater Crocodile (Crocodylus porosus). Viruses, 2019, 11, 1116.	3.3	23
35	Genomic Characterisation of a Highly Divergent Siadenovirus (Psittacine Siadenovirus F) from the Critically Endangered Orange-Bellied Parrot (Neophema chrysogaster). Viruses, 2021, 13, 1714.	3.3	18
36	Reduction in sphingosine kinase 1 influences the susceptibility to dengue virus infection by altering antiviral responses. Journal of General Virology, 2016, 97, 95-109.	2.9	17

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37	The interferon stimulated gene viperin, restricts Shigella. flexneri in vitro. Scientific Reports, 2019, 9, 15598.	3.3	16
38	A novel I-TAC promoter polymorphic variant is functional in the presence of replicating HCV in vitro. Journal of Clinical Virology, 2005, 32, 137-143.	3.1	15
39	Fatty Acids Induce a Pro-Inflammatory Gene Expression Profile in Huh-7 Cells That Attenuates the Anti-HCV Action of Interferon. Journal of Interferon and Cytokine Research, 2015, 35, 392-400.	1.2	15
40	Serosurveillance and Molecular Investigation of Wild Deer in Australia Reveals Seroprevalence of Pestivirus Infection. Viruses, 2020, 12, 752.	3.3	15
41	Sequence analysis and characterisation of virally induced viperin in the saltwater crocodile (Crocodylus porosus). Developmental and Comparative Immunology, 2015, 51, 108-115.	2.3	14
42	Lipid Droplet Motility Increases Following Viral Immune Stimulation. International Journal of Molecular Sciences, 2021, 22, 4418.	4.1	13
43	Molecular Epidemiology and Characterization of Picobirnavirus in Wild Deer and Cattle from Australia: Evidence of Genogroup I and II in the Upper Respiratory Tract. Viruses, 2021, 13, 1492.	3.3	13
44	A screening method for identifying disruptions in interferon signaling reveals HCV NS3/4a disrupts Stat-1 phosphorylation. Antiviral Research, 2008, 77, 169-176.	4.1	12
45	The first complete mitogenome of Indian ringneck <i>(Psittacula krameri)</i> demonstrates close phylogenetic relationship with Eclectus parrot. Mitochondrial DNA Part B: Resources, 2019, 4, 3579-3581.	0.4	10
46	Evaluation of haemoparasite and Sarcocystis infections in Australian wild deer. International Journal for Parasitology: Parasites and Wildlife, 2021, 15, 262-269.	1.5	8
47	Novel Picornavirus Detected in Wild Deer: Identification, Genomic Characterisation, and Prevalence in Australia. Viruses, 2021, 13, 2412.	3.3	8
48	The interferon signaling pathway genes as biomarkers of hepatitis C virus disease progression and response to treatment. Biomarkers in Medicine, 2012, 6, 141-150.	1.4	7
49	Investigation of sphingosine kinase 1 in interferon responses during dengue virus infection. Clinical and Translational Immunology, 2017, 6, e151.	3.8	7
50	Characterization of a Complete Genome Sequence of Molluscum Contagiosum Virus from an Adult Woman in Australia. Microbiology Resource Announcements, 2021, 10, .	0.6	7
51	Characterization of the first mitochondrial genome of a little Corella (Cacatua sanguinea) and its phylogenetic implications. Mitochondrial DNA Part B: Resources, 2019, 4, 3792-3794.	0.4	6
52	Immune Control of Herpesvirus Infection in Molluscs. Pathogens, 2020, 9, 618.	2.8	6
53	The Role of Anti-Viral Effector Molecules in Mollusc Hemolymph. Biomolecules, 2022, 12, 345.	4.0	6
54	Q Fever Research Group (QRG), Adelaide: Activities-Exit Summary 1980-2004. Annals of the New York Academy of Sciences, 2005, 1063, 181-186.	3.8	5

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55	The complete mitochondrial genome sequence of an Endangered powerful owl (Ninox strenua). Mitochondrial DNA Part B: Resources, 2016, 1, 722-723.	0.4	5
56	Viperin interacts with PEX19 to mediate peroxisomal augmentation of the innate antiviral response. Life Science Alliance, 2021, 4, e202000915.	2.8	5
57	Viperin has species-specific roles in response to herpes simplex virus infection. Journal of General Virology, 2021, 102, .	2.9	4
58	Host upregulation of lipid droplets drives antiviral responses. Cell Stress, 2021, 5, 143-145.	3.2	4
59	Astrocyte Control of Zika Infection Is Independent of Interferon Type I and Type III Expression. Biology, 2022, 11, 143.	2.8	4
60	First Evidence of Entamoeba Parasites in Australian Wild Deer and Assessment of Transmission to Cattle. Frontiers in Cellular and Infection Microbiology, 0, 12, .	3.9	4
61	Current and future targets of antiviral therapy in the hepatitis C virus life cycle. Future Virology, 2014, 9, 947-965.	1.8	3
62	The first complete mitochondrial genome sequence of an Australian raven (<i>Corvus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (cor	0.4	3
63	Resolution of the phylogenetic relationship of the vulnerable flesh-footed shearwater (<i>Ardenna) Tj ETQq1 1 0.784314 rgBT /Overlo 2021, 6, 1507-1511.	0.4	3
64	Control of HCV replication: When size does not matter. Hepatology, 2008, 47, 1092-1094.	7.3	2
65	Dynamic Changes in Host Gene Expression following In Vitro Viral Mimic Stimulation in Crocodile Cells. Frontiers in Immunology, 2017, 8, 1634.	4.8	1
66	The first complete mitogenome of red-bellied parrot (Poicephalus rufiventris) resolves phylogenetic status within Psittacidae. Mitochondrial DNA Part B: Resources, 2018, 3, 195-197.	0.4	1
67	Detection and Characterisation of an Endogenous Betaretrovirus in Australian Wild Deer. Viruses, 2022, 14, 252.	3.3	1
68	[373] OSTEOPONTIN IS SIGNIFICANTLY EXPRESSED IN ADVANCED HCV-RELATED LIVER DISEASE AND CAN ACCELERATE Huh-7 CELL GROWTH IN VITRO AND IN A NUDE MOUSE MODEL. Journal of Hepatology, 2007, 46, S145.	3.7	0
69	763 THE ROLE OF SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 3 (STAT3) IN THE HCV LIFE CYCLE. Journal of Hepatology, 2011, 54, S307.	3.7	0
70	P201 FATTY ACIDS INDUCE A PRO-INFLAMMATORY GENE EXPRESSION PROFILE IN HUH-7 CELLS AND ATTENUATE THE ANTI-HCV ACTION OF INTERFERON. Journal of Hepatology, 2014, 60, S133.	3.7	0
71	Identification of Beak and Feather Disease Virus in an Unusual Novel Host (Merops ornatus) Using Nested PCR. Genome Announcements, 2016, 4, .	0.8	0
72	Complete mitochondrial genome sequence of an Australian little penguin (Eudyptula minor) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	0.4	0

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73	Fluorescent antibiotics, vomocytosis, vaccine candidates and the inflammasome. Clinical and Translational Immunology, 2019, 8, e01083.	3.8	0