

Candace K. Mathiason

List of Publications by Year in descending order

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77
papers

3,322
citations

136940

32
h-index

149686

56
g-index

78
all docs

78
docs citations

78
times ranked

1300
citing authors

#	ARTICLE	IF	CITATIONS
1	Infectious Prions in the Saliva and Blood of Deer with Chronic Wasting Disease. <i>Science</i> , 2006, 314, 133-136.	12.6	448
2	Prion Strain Mutation Determined by Prion Protein Conformational Compatibility and Primary Structure. <i>Science</i> , 2010, 328, 1154-1158.	12.6	201
3	Infectious Prions in Pre-Clinical Deer and Transmission of Chronic Wasting Disease Solely by Environmental Exposure. <i>PLoS ONE</i> , 2009, 4, e5916.	2.5	182
4	Transmission of Prions from Mule Deer and Elk with Chronic Wasting Disease to Transgenic Mice Expressing Cervid PrP. <i>Journal of Virology</i> , 2004, 78, 13345-13350.	3.4	174
5	Detection of Chronic Wasting Disease Prions in Salivary, Urinary, and Intestinal Tissues of Deer: Potential Mechanisms of Prion Shedding and Transmission. <i>Journal of Virology</i> , 2011, 85, 6309-6318.	3.4	116
6	Detection of Sub-Clinical CWD Infection in Conventional Test-Negative Deer Long after Oral Exposure to Urine and Feces from CWD+ Deer. <i>PLoS ONE</i> , 2009, 4, e7990.	2.5	113
7	Rapid Antemortem Detection of CWD Prions in Deer Saliva. <i>PLoS ONE</i> , 2013, 8, e74377.	2.5	99
8	Quantitative assessment of prion infectivity in tissues and body fluids by real-time quaking-induced conversion. <i>Journal of General Virology</i> , 2015, 96, 210-219.	2.9	97
9	Re-examination of feline leukemia virus: host relationships using real-time PCR. <i>Virology</i> , 2005, 332, 272-283.	2.4	94
10	In Vitro Detection of prionemia in TSE-Infected Cervids and Hamsters. <i>PLoS ONE</i> , 2013, 8, e80203.	2.5	80
11	B Cells and Platelets Harbor Prion Infectivity in the Blood of Deer Infected with Chronic Wasting Disease. <i>Journal of Virology</i> , 2010, 84, 5097-5107.	3.4	79
12	Longitudinal Detection of Prion Shedding in Saliva and Urine by Chronic Wasting Disease-Infected Deer by Real-Time Quaking-Induced Conversion. <i>Journal of Virology</i> , 2015, 89, 9338-9347.	3.4	78
13	Proteinase K-sensitive disease-associated ovine prion protein revealed by conformation-dependent immunoassay. <i>Biochemical Journal</i> , 2007, 401, 475-483.	3.7	73
14	Mother to Offspring Transmission of Chronic Wasting Disease in Reevesâ€™ Muntjac Deer. <i>PLoS ONE</i> , 2013, 8, e71844.	2.5	72
15	Mucosal immunization with an attenuated <i>Salmonella</i> vaccine partially protects white-tailed deer from chronic wasting disease. <i>Vaccine</i> , 2015, 33, 726-733.	3.8	60
16	Aerosol Transmission of Chronic Wasting Disease in White-Tailed Deer. <i>Journal of Virology</i> , 2013, 87, 1890-1892.	3.4	59
17	Susceptibility of Domestic Cats to Chronic Wasting Disease. <i>Journal of Virology</i> , 2013, 87, 1947-1956.	3.4	55
18	Pathways of Prion Spread during Early Chronic Wasting Disease in Deer. <i>Journal of Virology</i> , 2017, 91, .	3.4	55

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19	Shedding and stability of CWD prion seeding activity in cervid feces. PLoS ONE, 2020, 15, e0227094.	2.5	52
20	Experimental Chronic Wasting Disease (CWD) in the Ferret. Journal of Comparative Pathology, 2008, 138, 189-196.	0.4	47
21	Molecular and Transmission Characteristics of Primary-Passaged Ovine Scrapie Isolates in Conventional and Ovine PrP Transgenic Mice. Journal of Virology, 2008, 82, 11197-11207.	3.4	47
22	Insights into Chronic Wasting Disease and Bovine Spongiform Encephalopathy Species Barriers by Use of Real-Time Conversion. Journal of Virology, 2015, 89, 9524-9531.	3.4	45
23	Characterization of a Highly Pathogenic Molecular Clone of Feline Immunodeficiency Virus Clade C. Journal of Virology, 2004, 78, 8971-8982.	3.4	44
24	Immediate and Ongoing Detection of Prions in the Blood of Hamsters and Deer following Oral, Nasal, or Blood Inoculations. Journal of Virology, 2015, 89, 7421-7424.	3.4	44
25	Prion-Seeding Activity in Cerebrospinal Fluid of Deer with Chronic Wasting Disease. PLoS ONE, 2013, 8, e81488.	2.5	43
26	In Vivo Monocyte Tropism of Pathogenic Feline Immunodeficiency Viruses. Journal of Virology, 1999, 73, 6852-6861.	3.4	42
27	In utero transmission and tissue distribution of chronic wasting disease-associated prions in free-ranging Rocky Mountain elk. Journal of General Virology, 2015, 96, 3444-3455.	2.9	41
28	Structural effects of PrP polymorphisms on intra- and interspecies prion transmission. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11169-11174.	7.1	40
29	Detection of chronic wasting disease prion seeding activity in deer and elk feces by real-time quaking-induced conversion. Journal of General Virology, 2017, 98, 1953-1962.	2.9	39
30	Sensitivity of protein misfolding cyclic amplification versus immunohistochemistry in ante-mortem detection of chronic wasting disease. Journal of General Virology, 2012, 93, 1141-1150.	2.9	34
31	PrPSc formation and clearance as determinants of prion tropism. PLoS Pathogens, 2017, 13, e1006298.	4.7	34
32	Enhanced prion detection in biological samples by magnetic particle extraction and real-time quaking-induced conversion. Journal of General Virology, 2016, 97, 2023-2029.	2.9	34
33	Comparison of conventional, amplification and bio-assay detection methods for a chronic wasting disease inoculum pool. PLoS ONE, 2019, 14, e0216621.	2.5	32
34	Propagation of ovine prions from "poor" transmitter scrapie isolates in ovine PrP transgenic mice. Experimental and Molecular Pathology, 2012, 92, 167-174.	2.1	31
35	Modified Protein Misfolding Cyclic Amplification Overcomes Real-Time Quaking-Induced Conversion Assay Inhibitors in Deer Saliva To Detect Chronic Wasting Disease Prions. Journal of Clinical Microbiology, 2018, 56, .	3.9	30
36	Milk Collection Methods for Mice and Reeves' Muntjac Deer. Journal of Visualized Experiments, 2014, .	0.3	29

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37	Assessment of Chronic Wasting Disease Prion Shedding in Deer Saliva with Occupancy Modeling. <i>Journal of Clinical Microbiology</i> , 2018, 56, .	3.9	29
38	Detection of CWD in cervids by RT-QuIC assay of third eyelids. <i>PLoS ONE</i> , 2019, 14, e0221654.	2.5	29
39	Detection and Quantification of CWD Prions in Fixed Paraffin Embedded Tissues by Real-Time Quaking-Induced Conversion. <i>Scientific Reports</i> , 2016, 6, 25098.	3.3	27
40	Dogs are resistant to prion infection, due to the presence of aspartic or glutamic acid at position 163 of their prion protein. <i>FASEB Journal</i> , 2020, 34, 3969-3982.	0.5	27
41	Ecological Dynamics Impacting Bluetongue Virus Transmission in North America. <i>Frontiers in Veterinary Science</i> , 2020, 7, 186.	2.2	27
42	Very low oral exposure to prions of brain or saliva origin can transmit chronic wasting disease. <i>PLoS ONE</i> , 2020, 15, e0237410.	2.5	24
43	Infectious Prions in the Pregnancy Microenvironment of Chronic Wasting Disease-Infected Reeves' Muntjac Deer. <i>Journal of Virology</i> , 2017, 91, .	3.4	23
44	Kinetics of Early FIV Infection in Cats Exposed via the Vaginal versus Intravenous Route. <i>AIDS Research and Human Retroviruses</i> , 2002, 18, 217-226.	1.1	22
45	Scrapie, CWD, and Transmissible Mink Encephalopathy. <i>Progress in Molecular Biology and Translational Science</i> , 2017, 150, 267-292.	1.7	22
46	Immunohistochemical Localization of Feline Immunodeficiency Virus Using Native Species Antibodies. <i>American Journal of Pathology</i> , 2002, 161, 1143-1151.	3.8	21
47	Feline Immunodeficiency Virus Gag- and Env-Specific Immune Responses after Vaginal versus Intravenous Infection. <i>AIDS Research and Human Retroviruses</i> , 2001, 17, 1767-1778.	1.1	20
48	PrPC expression and prion seeding activity in the alimentary tract and lymphoid tissue of deer. <i>PLoS ONE</i> , 2017, 12, e0183927.	2.5	19
49	Progression of chronic wasting disease in white-tailed deer analyzed by serial biopsy RT-QuIC and immunohistochemistry. <i>PLoS ONE</i> , 2020, 15, e0228327.	2.5	19
50	Comparative analysis of prions in nervous and lymphoid tissues of chronic wasting disease-infected cervids. <i>Journal of General Virology</i> , 2018, 99, 753-758.	2.9	16
51	In vitro detection of haematogenous prions in white-tailed deer orally dosed with low concentrations of chronic wasting disease. <i>Journal of General Virology</i> , 2020, 101, 347-361.	2.9	15
52	Maternal Influenza A Virus Infection Restricts Fetal and Placental Growth and Adversely Affects the Fetal Thymic Transcriptome. <i>Viruses</i> , 2020, 12, 1003.	3.3	14
53	Reversal of Feline Leukemia Virus Infection by Adoptive Transfer of Lectin/Interleukin-2-Activated Lymphocytes, Interferon- α , and Zidovudine. <i>Journal of Immunotherapy</i> , 1993, 14, 22-32.	2.4	13
54	Leukoreduction and blood-borne vCJD transmission risk. <i>Current Opinion in Hematology</i> , 2015, 22, 36-40.	2.5	13

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55	Lesion Profiling and Subcellular Prion Localization of Cervid Chronic Wasting Disease in Domestic Cats. <i>Veterinary Pathology</i> , 2015, 52, 107-119.	1.7	12
56	Assessment of the PrP ^c Amino-Terminal Domain in Prion Species Barriers. <i>Journal of Virology</i> , 2016, 90, 10752-10761.	3.4	12
57	Detection of Chronic Wasting Disease Prions in Fetal Tissues of Free-Ranging White-Tailed Deer. <i>Viruses</i> , 2021, 13, 2430.	3.3	12
58	Bioassay of prion-infected blood plasma in PrP transgenic <i>Drosophila</i> . <i>Biochemical Journal</i> , 2016, 473, 4399-4412.	3.7	11
59	Cross virus neutralizing antibodies against feline immunodeficiency virus genotypes A, B, C, D and E. <i>Archives of Virology</i> , 1998, 143, 157-162.	2.1	10
60	Chronic wasting disease prion infection of differentiated neurospheres. <i>Prion</i> , 2017, 11, 277-283.	1.8	8
61	Silent Prions and Covert Prion Transmission. <i>PLoS Pathogens</i> , 2015, 11, e1005249.	4.7	6
62	Clearance of variant Creutzfeldtâ€“Jakob disease prions <i>in vivo</i> by the Hsp70 disaggregase system. <i>Brain</i> , 2022, 145, 3236-3249.	7.6	6
63	Bluetongue Research at a Crossroads: Modern Genomics Tools Can Pave the Way to New Insights. <i>Annual Review of Animal Biosciences</i> , 2022, 10, 303-324.	7.4	4
64	Aspects of the husbandry and management of captive cervids. <i>Lab Animal</i> , 2016, 45, 140-142.	0.4	3
65	Characterization of subclinical ZIKV infection in immune-competent guinea pigs and mice. <i>Journal of General Virology</i> , 2021, 102, .	2.9	3
66	Involvement of N- and C-terminal region of recombinant cervid prion protein in its reactivity to CWD and atypical BSE prions in real-time quaking-induced conversion reaction in the presence of high concentrations of tissue homogenates. <i>Prion</i> , 2020, 14, 283-295.	1.8	3
67	Large animal models for chronic wasting disease. <i>Cell and Tissue Research</i> , 2022, , 1.	2.9	3
68	Intra-host mathematical model of chronic wasting disease dynamics in deer (<i>Odocoileus</i>). <i>Prion</i> , 2016, 10, 377-390.	1.8	2
69	Creutzfeldtâ€“Jakob disease in pregnancy: the use of modified RT-QuIC to determine infectivity in placental tissues. <i>Prion</i> , 2021, 15, 107-111.	1.8	2
70	Transabdominal Ultrasound for Pregnancy Diagnosis in Reeves' Muntjac Deer. <i>Journal of Visualized Experiments</i> , 2014, , e50855.	0.3	1
71	The use of PrP transgenic <i>Drosophila</i> to replace and reduce vertebrate hosts in the bioassay of mammalian prion infectivity. <i>F1000Research</i> , 2018, 7, 595.	1.6	1
72	P4-205: MUCOSAL IMMUNIZATION TO PREVENT CHRONIC WASTING DISEASE (CWD) IN DEER. , 2014, 10, P863-P863.		0

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73	Assessing Milk from CWD-Lactating Deer for Infectious Prions. European Journal of Molecular and Clinical Medicine, 2017, 2, 129.	0.1	0
74	Detection of CWD in cervids by RT-QuIC assay of third eyelids. , 2019, 14, e0221654.		0
75	Detection of CWD in cervids by RT-QuIC assay of third eyelids. , 2019, 14, e0221654.		0
76	Detection of CWD in cervids by RT-QuIC assay of third eyelids. , 2019, 14, e0221654.		0
77	Detection of CWD in cervids by RT-QuIC assay of third eyelids. , 2019, 14, e0221654.		0