Judd Aiken

List of Publications by Year in descending order

43 papers	2,161 citations	257450 24 h-index	289244 40 g-index
44 all docs	44 docs citations	44 times ranked	2198 citing authors

#	Article	IF	Citations
1	Mitochondrial DNAâ€“Deletion Mutations Accumulate Intracellularly to Detrimental Levels in Aged Human Skeletal Muscle Fibers. American Journal of Human Genetics, 2006, 79, 469-480.	6.2	363
2	Oral Transmissibility of Prion Disease Is Enhanced by Binding to Soil Particles. PLoS Pathogens, 2007, 3, e93.	4.7	187
3	Prion protein polymorphisms in white-tailed deer influence susceptibility to chronic wasting disease. Journal of General Virology, 2006, 87, 2109-2114.	2.9	143
4	Adaptation and Selection of Prion Protein Strain Conformations following Interspecies Transmission of Transmissible Mink Encephalopathy. Journal of Virology, 2000, 74, 5542-5547.	3.4	132
5	Reversibility of Scrapie Inactivation Is Enhanced by Copper. Journal of Biological Chemistry, 1998, 273, 25545-25547.	3.4	116
6	Mitochondrial DNA deletion mutations. FEBS Journal, 2002, 269, 2010-2015.	0.2	113
7	Molecular analyses of mtDNA deletion mutations in microdissected skeletal muscle fibers from aged rhesus monkeys. Aging Cell, 2004, 3, 319-326.	6.7	85
8	PRION PROTEIN GENE HETEROGENEITY IN FREE-RANGING WHITE-TAILED DEER WITHIN THE CHRONIC WASTING DISEASE AFFECTED REGION OF WISCONSIN. Journal of Wildlife Diseases, 2003, 39, 576-581.	0.8	80
9	Deer Prion Proteins Modulate the Emergence and Adaptation of Chronic Wasting Disease Strains. Journal of Virology, 2015, 89, 12362-12373.	3.4	75
10	Apoptosis and necrosis mediate skeletal muscle fiber loss in ageâ€induced mitochondrial enzymatic abnormalities. Aging Cell, 2015, 14, 1085-1093.	6.7	73
11	Persistence of Pathogenic Prion Protein during Simulated Wastewater Treatment Processes. Environmental Science & Technology, 2008, 42, 5254-5259.	10.0	61
12	Adsorption of Pathogenic Prion Protein to Quartz Sand. Environmental Science & Technology, 2007, 41, 2324-2330.	10.0	54
13	Latent mitochondrial <scp>DNA</scp> deletion mutations drive muscle fiber loss at old age. Aging Cell, 2016, 15, 1132-1139.	6.7	51
14	Multiple age-associated mitochondrial DNA deletions in skeletal muscle of mice. Aging Clinical and Experimental Research, 1994, 6, 193-200.	2.9	47
15	Sequence homologtes in the protamine gene family of rainbow trout. Nucleic Acids Research, 1983, 11, 4907-4922.	14.5	46
16	Pathogenic prion protein is degraded by a manganese oxide mineral found in soils. Journal of General Virology, 2009, 90, 275-280.	2.9	46
17	Effect of Age and Exercise on the Viscoelastic Properties of Rat Tail Tendon. Annals of Biomedical Engineering, 2013, 41, 1120-1128.	2.5	46
18	Potential Role of Soil in the Transmission of Prion Disease. Reviews in Mineralogy and Geochemistry, 2006, 64, 135-152.	4.8	43

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19	Prion protein polymorphisms associated with reduced CWD susceptibility limit peripheral PrPCWD deposition in orally infected white-tailed deer. BMC Veterinary Research, 2019, 15, 50.	1.9	35
20	Highly Efficient Amplification of Chronic Wasting Disease Agent by Protein Misfolding Cyclic Amplification with Beads (PMCAb). PLoS ONE, 2012, 7, e35383.	2.5	32
21	Golden hamster embryonic genome activation occurs at the two-cell stage: Correlation with major developmental changes. Molecular Reproduction and Development, 1992, 32, 229-235.	2.0	31
22	A Quantitative Proteomic Approach to Prion Disease Biomarker Research: Delving into the Glycoproteome. Journal of Proteome Research, 2011, 10, 2687-2702.	3.7	30
23	Chronic wasting disease (CWD) prion strains evolve via adaptive diversification of conformers in hosts expressing prion protein polymorphisms. Journal of Biological Chemistry, 2020, 295, 4985-5001.	3.4	28
24	Low Copper and High Manganese Levels in Prion Protein Plaques. Viruses, 2013, 5, 654-662.	3.3	26
25	Potential role of soil properties in the spread of CWD in western Canada. Prion, 2014, 8, 92-99.	1.8	22
26	Infectious Prions Accumulate to High Levels in Non Proliferative C2C12 Myotubes. PLoS Pathogens, 2013, 9, e1003755.	4.7	21
27	MtDNA point mutations are associated with deletion mutations in aged rat. Experimental Gerontology, 2005, 40, 209-218.	2.8	20
28	Mitochondrial Biogenesis Drives a Vicious Cycle of Metabolic Insufficiency and Mitochondrial DNA Deletion Mutation Accumulation in Aged Rat Skeletal Muscle Fibers. PLoS ONE, 2013, 8, e59006.	2.5	20
29	Tollâ€like receptorâ€mediated immune response inhibits prion propagation. Glia, 2016, 64, 937-951.	4.9	18
30	Chronic wasting disease: a cervid prion infection looming to spillover. Veterinary Research, 2021, 52, 115.	3.0	16
31	PRP gene variability in the us cattle population. Animal Biotechnology, 1992, 3, 309-315.	1.5	14
32	Identification of a putative calcium-binding protein as a dioxin-responsive gene in zebrafish and rainbow trout. Aquatic Toxicology, 2003, 63, 271-282.	4.0	14
33	Establishment and characterization ofPrnpknockdown neuroblastoma cells using dual microRNA-mediated RNA interference. Prion, 2011, 5, 93-102.	1.8	12
34	Strain-specific propagation of PrPSc properties into baculovirus-expressed hamster PrPC. Journal of General Virology, 2000, 81, 2565-2571.	2.9	12
35	Labeling of the scrapie-associated prion protein in vitro and in vivo. Neuroscience Letters, 2004, 371, 176-180.	2.1	11
36	The Standard Scrapie Cell Assay: Development, Utility and Prospects. Viruses, 2015, 7, 180-198.	3.3	11

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37	Linking metabolic and contractile dysfunction in aged cardiac myocytes. Physiological Reports, 2017, 5, e13485.	1.7	9
38	Dual MicroRNA to Cellular Prion Protein Inhibits Propagation of Pathogenic Prion Protein in Cultured Cells. Molecular Neurobiology, 2018, 55, 2384-2396.	4.0	9
39	White-tailed deer S96 prion protein does not support stable in vitro propagation of most common CWD strains. Scientific Reports, 2021, 11, 11193.	3.3	7
40	Cellular prion protein distribution in the vomeronasal organ, parotid, and scent glands of white-tailed deer and mule deer. Prion, 2022, 16, 40-57.	1.8	2
41	A molecular basis for transmissible spongiform encephalopathy agent strain differences. Bulletin De L'Institut Pasteur, 1998, 96, 35-47.	0.6	0
42	Monitoring exercise intensity during longâ€term endurance exercise training in aging rats. FASEB Journal, 2012, 26, 1142.4.	0.5	0
43	Effects of Age and Exercise Training on the Expression of Mitochondrial Genes in Skeletal Muscle. FASEB Journal, 2015, 29, 815.11.	0.5	0