

Detlev H KrÃ¼ger

List of Publications by Year in descending order

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117
papers

6,360
citations

61984

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71685

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124
docs citations

124
times ranked

5074
citing authors

#	ARTICLE	IF	CITATIONS
1	A nomenclature for restriction enzymes, DNA methyltransferases, homing endonucleases and their genes. <i>Nucleic Acids Research</i> , 2003, 31, 1805-1812.	14.5	634
2	Bats host major mammalian paramyxoviruses. <i>Nature Communications</i> , 2012, 3, 796.	12.8	546
3	Gene expression analysis of plant host-pathogen interactions by SuperSAGE. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 15718-15723.	7.1	273
4	Hantavirus in African Wood Mouse, Guinea. <i>Emerging Infectious Diseases</i> , 2006, 12, 838-840.	4.3	266
5	infections and their prevention. <i>Microbes and Infection</i> , 2001, 3, 1129-1144.	1.9	180
6	Î²2 integrin mediates hantavirus-induced release of neutrophil extracellular traps. <i>Journal of Experimental Medicine</i> , 2014, 211, 1485-1497.	8.5	159
7	Hantavirusesâ€™ Globally emerging pathogens. <i>Journal of Clinical Virology</i> , 2015, 64, 128-136.	3.1	153
8	Human pathogenic hantaviruses and prevention of infection. <i>Hum Vaccin</i> , 2011, 7, 685-693.	2.4	144
9	Novel Hantavirus Sequences in Shrew, Guinea. <i>Emerging Infectious Diseases</i> , 2007, 13, 520-522.	4.3	140
10	Hantavirus in Bat, Sierra Leone. <i>Emerging Infectious Diseases</i> , 2012, 18, 159-161.	4.3	132
11	Core Particles of Hepatitis B Virus as Carrier for Foreign Epitopes. <i>Advances in Virus Research</i> , 1998, 50, 141-182.	2.1	129
12	Hantavirus Infection of Dendritic Cells. <i>Journal of Virology</i> , 2002, 76, 10724-10733.	3.4	112
13	Hemorrhagic Fever with Renal Syndrome Caused by 2 Lineages of Dobrava Hantavirus, Russia1. <i>Emerging Infectious Diseases</i> , 2008, 14, 617-625.	4.3	99
14	Complex evolution and epidemiology of Dobrava-Belgrade hantavirus: definition of genotypes and their characteristics. <i>Archives of Virology</i> , 2013, 158, 521-529.	2.1	98
15	Occurrence of Renal and Pulmonary Syndrome in a Region of Northeast Germany Where Tula Hantavirus Circulates. <i>Journal of Clinical Microbiology</i> , 2003, 41, 4894-4897.	3.9	94
16	Differential Antiviral Response of Endothelial Cells after Infection with Pathogenic and Nonpathogenic Hantaviruses. <i>Journal of Virology</i> , 2004, 78, 6143-6150.	3.4	93
17	Detection and Typing of Human Pathogenic Hantaviruses by Real-Time Reverse Transcription-PCR and Pyrosequencing. <i>Clinical Chemistry</i> , 2007, 53, 1899-1905.	3.2	87
18	Genetic Interaction between Distinct Dobrava Hantavirus Subtypes in <i>Apodemus agrarius</i> and <i>A. flavicollis</i> in Nature. <i>Journal of Virology</i> , 2003, 77, 804-809.	3.4	74

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19	Thrombocytopenia and Acute Renal Failure in Puumala Hantavirus Infections. <i>Emerging Infectious Diseases</i> , 2004, 10, 1420-1425.	4.3	71
20	A proposal for new criteria for the classification of hantaviruses, based on S and M segment protein sequences. <i>Infection, Genetics and Evolution</i> , 2009, 9, 813-820.	2.3	71
21	Crystal Structure of Type IIE Restriction Endonuclease EcoRII Reveals an Autoinhibition Mechanism by a Novel Effector-binding Fold. <i>Journal of Molecular Biology</i> , 2004, 335, 307-319.	4.2	63
22	High yields of stable and highly pure nucleocapsid proteins of different hantaviruses can be generated in the yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2004, 111, 319-333.	3.8	62
23	Multiple Synchronous Outbreaks of Puumala Virus, Germany, 2010. <i>Emerging Infectious Diseases</i> , 2012, 18, 1461-1464.	4.3	62
24	Yeast-expressed Puumala hantavirus nucleocapsid protein induces protection in a bank vole model. <i>Vaccine</i> , 2002, 20, 3523-3531.	3.8	61
25	GEOGRAPHICAL DISTRIBUTION OF HANTAVIRUSES IN THAILAND AND POTENTIAL HUMAN HEALTH SIGNIFICANCE OF THAILAND VIRUS. <i>American Journal of Tropical Medicine and Hygiene</i> , 2006, 75, 994-1002.	1.4	60
26	Central European Dobrava Hantavirus Isolate from a Striped Field Mouse (<i>Apodemus agrarius</i>). <i>Journal of Clinical Microbiology</i> , 2005, 43, 2756-2763.	3.9	59
27	Hantaan Virus Triggers TLR3-Dependent Innate Immune Responses. <i>Journal of Immunology</i> , 2009, 182, 2849-2858.	0.8	59
28	Seroprevalence study in forestry workers of a non-endemic region in eastern Germany reveals infections by Tula and Dobravaâ€“Belgrade hantaviruses. <i>Medical Microbiology and Immunology</i> , 2011, 200, 263-268.	4.8	58
29	Serological Evidence of Human Hantavirus Infections in Guinea, West Africa. <i>Journal of Infectious Diseases</i> , 2010, 201, 1031-1034.	4.0	57
30	Hantavirus Disease Outbreak in Germany: Limitations of Routine Serological Diagnostics and Clustering of Virus Sequences of Human and Rodent Origin. <i>Journal of Clinical Microbiology</i> , 2007, 45, 3008-3014.	3.9	54
31	A chemiluminescence detection method of hantaviral antigens in neutralisation assays and inhibitor studies. <i>Journal of Virological Methods</i> , 2001, 96, 17-23.	2.1	53
32	Hantavirus Outbreak, Germany, 2007. <i>Emerging Infectious Diseases</i> , 2008, 14, 850-852.	4.3	53
33	Chimaeric HBV core particles carrying a defined segment of Puumala hantavirus nucleocapsid protein evoke protective immunity in an animal model. <i>Vaccine</i> , 1998, 16, 272-280.	3.8	51
34	Hantaviruses as Zoonotic Pathogens in Germany. <i>Deutsches A&#x0308;rztblatt International</i> , 2013, 110, 461-7.	0.9	51
35	Diversity of Type II restriction endonucleases that require two DNA recognition sites. <i>Nucleic Acids Research</i> , 2003, 31, 6079-6084.	14.5	50
36	Development of Novel Immunoglobulin G (IgG), IgA, and IgM Enzyme Immunoassays Based on Recombinant Puumala and Dobrava Hantavirus Nucleocapsid Proteins. <i>Vaccine Journal</i> , 2006, 13, 1349-1357.	3.1	50

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37	Broad geographical distribution and high genetic diversity of shrew-borne Seewis hantavirus in Central Europe. <i>Virus Genes</i> , 2012, 45, 48-55.	1.6	50
38	Hantavirus infections in Europe. <i>Advances in Virus Research</i> , 2001, 57, 105-136.	2.1	49
39	First Molecular Identification of Human Dobrava Virus Infection in Central Europe. <i>Journal of Clinical Microbiology</i> , 2004, 42, 1322-1325.	3.9	46
40	An amino-terminal segment of hantavirus nucleocapsid protein presented on hepatitis B virus core particles induces a strong and highly cross-reactive antibody response in mice. <i>Virology</i> , 2004, 323, 108-119.	2.4	46
41	Dobrava-Belgrade Virus Spillover Infections, Germany. <i>Emerging Infectious Diseases</i> , 2009, 15, 2017-2020.	4.3	46
42	Inactivation of Hantaan Virus-Containing Samples for Subsequent Investigations outside Biosafety Level 3 Facilities. <i>Intervirology</i> , 2005, 48, 255-261.	2.8	45
43	A hantavirus nucleocapsid protein segment exposed on hepatitis B virus core particles is highly immunogenic in mice when applied without adjuvants or in the presence of pre-existing anti-core antibodies. <i>Vaccine</i> , 2005, 23, 3973-3983.	3.8	44
44	Sangassou Virus, the First Hantavirus Isolate from Africa, Displays Genetic and Functional Properties Distinct from Those of Other Murinae-Associated Hantaviruses. <i>Journal of Virology</i> , 2012, 86, 3819-3827.	3.4	44
45	DNA cleavage by type III restriction-modification enzyme Eco P15I is independent of spacer distance between two head-to-head oriented recognition sites. In memory of Dieter Cech (1944-1996), Professor of bioorganic chemistry at the Humboldt University, Berlin. Edited by J. Karn. <i>Journal of Molecular Biology</i> , 2001, 312, 687-698.	4.2	43
46	Detection of shrew-borne hantavirus in Eurasian pygmy shrew (<i>Sorex minutus</i>) in Central Europe. <i>Infection, Genetics and Evolution</i> , 2013, 19, 403-410.	2.3	43
47	EcoRII: a restriction enzyme evolving recombination functions?. <i>EMBO Journal</i> , 2002, 21, 5262-5268.	7.8	42
48	Hantaviruses in Africa. <i>Virus Research</i> , 2014, 187, 34-42.	2.2	42
49	Puumala (PUU) Hantavirus Strain Differences and Insertion Positions in the Hepatitis B Virus Core Antigen Influence B-cell Immunogenicity and Protective Potential of Core-Derived Particles. <i>Virology</i> , 2000, 276, 364-375.	2.4	40
50	Emerging Viruses: The Case of Hantavirus™. <i>Intervirology</i> , 2002, 45, 318-327.	2.8	40
51	Hemorrhagic Fever with Renal Syndrome, Russia. <i>Emerging Infectious Diseases</i> , 2019, 25, 2325-2328.	4.3	40
52	Counting CAG repeats in the Huntington's disease gene by restriction endonuclease EcoP15I cleavage. <i>Nucleic Acids Research</i> , 2002, 30, 83e-83.	14.5	38
53	RNA helicase retinoic acid-inducible gene I as a sensor of Hantaan virus replication. <i>Journal of General Virology</i> , 2011, 92, 2191-2200.	2.9	38
54	Proteasome Inhibitors: A Novel Tool to Suppress Human Cytomegalovirus Replication and Virus-Induced Immune Modulation. <i>Antiviral Therapy</i> , 2003, 8, 555-567.	1.0	38

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55	Molecular Diagnostics of Hemorrhagic Fever with Renal Syndrome during a Dobrava Virus Infection Outbreak in the European Part of Russia. <i>Journal of Clinical Microbiology</i> , 2009, 47, 4029-4036.	3.9	36
56	Switch to high-level virus replication and HLA class I upregulation in differentiating megakaryocytic cells after infection with pathogenic hantavirus. <i>Virology</i> , 2010, 405, 70-80.	2.4	36
57	Phylogenetic analysis of a newfound bat-borne hantavirus supports a laurasiatherian host association for ancestral mammalian hantaviruses. <i>Infection, Genetics and Evolution</i> , 2016, 41, 113-119.	2.3	36
58	Gastrointestinal Tract As Entry Route for Hantavirus Infection. <i>Frontiers in Microbiology</i> , 2017, 8, 1721.	3.5	35
59	DNA methylation of bacterial viruses T3 and T7 by different DNA methylases in <i>Escherichia coli</i> K12 cells. <i>FEBS Journal</i> , 1985, 150, 323-330.	0.2	34
60	Human Infections by Non-Rodent-Associated Hantaviruses in Africa. <i>Journal of Infectious Diseases</i> , 2016, 214, 1507-1511.	4.0	34
61	Approaches to optimize therapeutic bacteriophage and bacteriophage-derived products to combat bacterial infections. <i>Virus Genes</i> , 2020, 56, 136-149.	1.6	33
62	Dobrava-Belgrade Hantavirus from Germany Shows Receptor Usage and Innate Immunity Induction Consistent with the Pathogenicity of the Virus in Humans. <i>PLoS ONE</i> , 2012, 7, e35587.	2.5	32
63	Oligonucleotide duplexes containing CC(A/T)GG stimulate cleavage of refractory DNA by restriction endonuclease EcoRII. <i>FEBS Letters</i> , 1989, 245, 141-144.	2.8	31
64	Monitoring of patients for cytomegalovirus after organ transplantation by centrifugation culture and PCR. <i>Journal of Medical Virology</i> , 1992, 38, 246-251.	5.0	31
65	Hantavirus-induced disruption of the endothelial barrier: neutrophils are on the payroll. <i>Frontiers in Microbiology</i> , 2015, 6, 222.	3.5	30
66	Molecular and epidemiological characteristics of human Puumala and Dobrava-Belgrade hantavirus infections, Germany, 2001 to 2017. <i>Eurosurveillance</i> , 2019, 24, .	7.0	30
67	The nucleocapsid protein of hantaviruses: much more than a genome-wrapping protein. <i>Virus Genes</i> , 2018, 54, 5-16.	1.6	27
68	Nucleocapsid protein of cell culture-adapted Seoul virus strain 80-39: Analysis of its encoding sequence, expression in yeast and immuno-reactivity. <i>Virus Genes</i> , 2005, 30, 37-48.	1.6	26
69	Genetic reassortment between high-virulent and low-virulent Dobrava-Belgrade virus strains. <i>Virus Genes</i> , 2010, 41, 319-328.	1.6	26
70	Scanning Force Microscopy of DNA Translocation by the Type III Restriction Enzyme EcoP15I. <i>Journal of Molecular Biology</i> , 2004, 341, 337-343.	4.2	25
71	Type III restriction endonuclease EcoP15I is a heterotrimeric complex containing one Res subunit with several DNA-binding regions and ATPase activity. <i>Nucleic Acids Research</i> , 2012, 40, 3610-3622.	14.5	25
72	Development and evaluation of serological assays for detection of human hantavirus infections caused by Sin Nombre virus. <i>Journal of Clinical Virology</i> , 2005, 33, 247-253.	3.1	24

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73	Nephropathia epidemica with a 6-week incubation period after occupational exposure to Puumala hantavirus. <i>Journal of Clinical Virology</i> , 2009, 44, 99-101.	3.1	24
74	Isolation of Sochi Virus From a Fatal Case of Hantavirus Disease With Fulminant Clinical Course. <i>Clinical Infectious Diseases</i> , 2012, 54, e1-e4.	5.8	24
75	Seroepidemiological study reveals regional co-occurrence of <i>Lassa</i> and <i>Hantaan</i> virus antibodies in <i>Uganda</i> , <i>Guinea</i> , <i>West Africa</i> . <i>Tropical Medicine and International Health</i> , 2013, 18, 366-371.	2.3	23
76	A Novel Hantavirus of the European Mole, Bruges Virus, Is Involved in Frequent Nova Virus Coinfections. <i>Genome Biology and Evolution</i> , 2018, 10, 45-55.	2.5	23
77	The <i>Salmonella typhimurium</i> DNA Restriction Systems SA and SB. <i>Journal of Virology</i> , 1983, 45, 1147-1149.	3.4	22
78	Serological Assays for the Detection of Human Andes Hantavirus Infections Based on Its Yeast-Expressed Nucleocapsid Protein. <i>Intervirology</i> , 2006, 49, 173-184.	2.8	21
79	Functional Characterization and Modulation of the DNA Cleavage Efficiency of Type III Restriction Endonuclease EcoP15I in Its Interaction with Two Sites in the DNA Target. <i>Journal of Molecular Biology</i> , 2009, 387, 1309-1319.	4.2	21
80	Generation and characterization of genetic reassortants between Puumala and Prospect Hill hantavirus in vitro. <i>Journal of General Virology</i> , 2010, 91, 2351-2359.	2.9	20
81	Hantavirus-induced pathogenesis in mice with a humanized immune system. <i>Journal of General Virology</i> , 2015, 96, 1258-1263.	2.9	20
82	Life-Threatening Sochi Virus Infections, Russia. <i>Emerging Infectious Diseases</i> , 2015, 21, 2204-2208.	4.3	19
83	Tula Virus as Causative Agent of Hantavirus Disease in Immunocompetent Person, Germany. <i>Emerging Infectious Diseases</i> , 2021, 27, 1234-1237.	4.3	19
84	MxA-independent inhibition of Hantaan virus replication induced by type I and type II interferon in vitro. <i>Virus Research</i> , 2007, 127, 100-105.	2.2	16
85	Hantavirus infections by Puumala or Dobrava-Belgrade virus in pregnant women. <i>Journal of Clinical Virology</i> , 2012, 55, 266-269.	3.1	16
86	Adler hantavirus, a new genetic variant of Tula virus identified in Major's pine voles (<i>Microtus majori</i>) sampled in southern European Russia. <i>Infection, Genetics and Evolution</i> , 2015, 29, 156-163.	2.3	16
87	Influence of phage T3 and T7 gene functions on a type III (EcoP1) DNA restriction-modification system in vivo. <i>Molecular Genetics and Genomics</i> , 1982, 185, 457-461.	2.4	15
88	Human seroprevalence indicating hantavirus infections in tropical rainforests of Côte d'Ivoire and Democratic Republic of Congo. <i>Frontiers in Microbiology</i> , 2015, 6, 518.	3.5	15
89	Importation of Human Seoul Virus Infection to Germany from Indonesia. <i>Emerging Infectious Diseases</i> , 2018, 24, 1099-1102.	4.3	15
90	A novel method for cloning of non-cytolytic viruses. <i>Journal of Virological Methods</i> , 2006, 135, 26-31.	2.1	14

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91	Macropinocytosis and Clathrin-Dependent Endocytosis Play Pivotal Roles for the Infectious Entry of Puumala Virus. <i>Journal of Virology</i> , 2020, 94, .	3.4	14
92	Replication in the Mononuclear Phagocyte System (MPS) as a Determinant of Hantavirus Pathogenicity. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 281.	3.9	14
93	Hantaviral mechanisms driving <sc>HLA</sc> class I antigen presentation require both <sc>RIG</sc> and <sc>TRIF</sc>. <i>European Journal of Immunology</i> , 2013, 43, 2566-2576.	2.9	13
94	Proteinuria and the Clinical Course of Dobrava-Belgrade Hantavirus Infection. <i>Nephron Extra</i> , 2018, 8, 1-10.	1.1	13
95	Interaction of wild-type and naturally occurring deleted variants of hepatitis B virus core polypeptides leads to formation of mosaic particles. <i>FEBS Letters</i> , 2000, 478, 127-132.	2.8	12
96	Hantavirus Emergence in Rodents, Insectivores and Bats. , 2014, , 235-292.		12
97	Stop Codon Insertion Restores the Particle Formation Ability of Hepatitis B Virus Core-Hantavirus Nucleocapsid Protein Fusions. <i>Intervirology</i> , 2002, 45, 340-349.	2.8	11
98	Structural Domains in the Type III Restriction Endonuclease EcoP15I: Characterization by Limited Proteolysis, Mass Spectrometry and Insertional Mutagenesis. <i>Journal of Molecular Biology</i> , 2007, 366, 93-102.	4.2	11
99	Clinical characterization of two severe cases of hemorrhagic fever with renal syndrome (HFRS) caused by hantaviruses Puumala and Dobrava-Belgrade genotype Sochi. <i>BMC Infectious Diseases</i> , 2016, 16, 675.	2.9	11
100	Infection of human airway epithelial cells by different subtypes of Dobrava-Belgrade virus reveals gene expression patterns corresponding to their virulence potential. <i>Virology</i> , 2016, 493, 189-201.	2.4	11
101	Severe hantavirus disease in children. <i>Journal of Clinical Virology</i> , 2018, 101, 66-68.	3.1	11
102	Mapping mutations in influenza A virus resistant to neuraminidase. <i>FEBS Letters</i> , 1990, 267, 19-21.	2.8	9
103	Recent outbreaks of hantavirus disease in Germany and in the United States. <i>Kidney International</i> , 2012, 82, 1243-1245.	5.2	9
104	Helmut Ruska (1908–1973). <i>Advances in Imaging and Electron Physics</i> , 2014, 182, 1-94.	0.2	9
105	Autochthonous Ratborne Seoul Virus Infection in Woman with Acute Kidney Injury. <i>Emerging Infectious Diseases</i> , 2020, 26, 3096-3099.	4.3	8
106	Meeting report: Eleventh International Conference on Hantaviruses. <i>Antiviral Research</i> , 2020, 176, 104733.	4.1	8
107	Abortive Infection of F-Plasmid-Containing <i>Escherichia coli</i> Cells by Bacterial Virus T7 Is Determined by the Right End of T7 Gene 1. <i>Journal of Virology</i> , 1983, 46, 293-296.	3.4	6
108	Prediction of the Spatial Origin of Puumala Virus Infections Using L Segment Sequences Derived from a Generic Screening PCR. <i>Viruses</i> , 2019, 11, 694.	3.3	5

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109	SuperSAGE: The Most Advanced Transcriptome Technology for Functional Genomics. , 0, , 37-54.		4
110	Functional consequences of mutating conserved SF2 helicase motifs in the Type III restriction endonuclease EcoP15I translocase domain. <i>Biochimie</i> , 2013, 95, 817-823.	2.6	4
111	Does proficiency testing improve the quality of hantavirus serodiagnostics? Experiences with INSTAND EQA schemes. <i>International Journal of Medical Microbiology</i> , 2015, 305, 607-611.	3.6	4
112	Detection of possible spillover of a novel hantavirus in a Natal mastomys from Guinea. <i>Virus Genes</i> , 2020, 56, 95-98.	1.6	4
113	Reliable detection of DNA cytosine methylation at CpNpG sites using the engineered restriction enzyme EcoRII-C. <i>BioTechniques</i> , 2005, 38, 855-856.	1.8	3
114	Sin Nombre hantavirus nucleocapsid protein exhibits a metal-dependent DNA-specific endonucleolytic activity. <i>Virology</i> , 2016, 496, 67-76.	2.4	3
115	Characterization of Hantavirus N Protein Intracellular Dynamics and Localization. <i>Viruses</i> , 2022, 14, 457.	3.3	3
116	Classic paper: Are the chickenpox virus and the zoster virus identical?. <i>Reviews in Medical Virology</i> , 2018, 28, e1975.	8.3	1
117	Thank you, Gholamreza Darai. <i>Virus Genes</i> , 2012, 44, 165-166.	1.6	0