

Alex Bossers

List of Publications by Year in descending order

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108
papers

4,468
citations

101543

36
h-index

118850

62
g-index

113
all docs

113
docs citations

113
times ranked

3838
citing authors

#	ARTICLE	IF	CITATIONS
1	Age Matters: Community Assembly in the Pig Fecal Microbiome in the First Month of Life. <i>Frontiers in Microbiology</i> , 2021, 12, 564408.	3.5	13
2	Targeted metagenomics reveals inferior resilience of farm soil resistome compared to soil microbiome after manure application. <i>Science of the Total Environment</i> , 2021, 770, 145399.	8.0	27
3	Factors Influencing the Succession of the Fecal Microbiome in Broilers. <i>Livestock Science</i> , 2021, 247, 104486.	1.6	10
4	Genomic evolution of antimicrobial resistance in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2021, 11, 15108.	3.3	33
5	<i>Chlamydia caviae</i> in Swiss and Dutch Guinea Pigs – Occurrence and Genetic Diversity. <i>Pathogens</i> , 2021, 10, 1230.	2.8	2
6	Characterization of goat prions demonstrates geographical variation of scrapie strains in Europe and reveals the composite nature of prion strains. <i>Scientific Reports</i> , 2020, 10, 19.	3.3	22
7	Description and determinants of the faecal resistome and microbiome of farmers and slaughterhouse workers: A metagenome-wide cross-sectional study. <i>Environment International</i> , 2020, 143, 105939.	10.0	33
8	Farm dust resistomes and bacterial microbiomes in European poultry and pig farms. <i>Environment International</i> , 2020, 143, 105971.	10.0	66
9	An observational field study of the cloacal microbiota in adult laying hens with and without access to an outdoor range. <i>Animal Microbiome</i> , 2020, 2, 28.	3.8	13
10	Incompatibility and phylogenetic relationship of I-complex plasmids. <i>Plasmid</i> , 2020, 109, 102502.	1.4	4
11	The effect of maternal antibiotic use in sows on intestinal development in offspring. <i>Journal of Animal Science</i> , 2020, 98, .	0.5	12
12	Addressing Learning Needs on the Use of Metagenomics in Antimicrobial Resistance Surveillance. <i>Frontiers in Public Health</i> , 2020, 8, 38.	2.7	11
13	Emergence and Selection of a Highly Pathogenic Avian Influenza H7N3 Virus. <i>Journal of Virology</i> , 2020, 94, .	3.4	20
14	Metagenomics-Based Approach to Source-Attribution of Antimicrobial Resistance Determinants – Identification of Reservoir Resistome Signatures. <i>Frontiers in Microbiology</i> , 2020, 11, 601407.	3.5	29
15	Temporal Dynamics of Cloacal Microbiota in Adult Laying Chickens With and Without Access to an Outdoor Range. <i>Frontiers in Microbiology</i> , 2020, 11, 626713.	3.5	8
16	Spread of Highly Pathogenic Avian Influenza (HPAI) H5N5 Viruses in Europe in 2016 – 2017 Appears Related to the Timing of Reassortment Events. <i>Viruses</i> , 2019, 11, 501.	3.3	14
17	Circulation of low pathogenic avian influenza (LPAI) viruses in wild birds and poultry in the Netherlands, 2006 – 2016. <i>Scientific Reports</i> , 2019, 9, 13681.	3.3	18
18	Limited changes in the fecal microbiome composition of laying hens after oral inoculation with wild duck feces. <i>Poultry Science</i> , 2019, 98, 6542-6551.	3.4	7

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19	Associations between antimicrobial use and the faecal resistome on broiler farms from nine European countries. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 2596-2604.	3.0	49
20	The shufflon of IncI1 plasmids is rearranged constantly during different growth conditions. <i>Plasmid</i> , 2019, 102, 51-55.	1.4	16
21	Genetic relationship between poultry and wild bird viruses during the highly pathogenic avian influenza H5N6 epidemic in the Netherlands, 2017a€“2018. <i>Transboundary and Emerging Diseases</i> , 2019, 66, 1370-1378.	3.0	24
22	Novel Carbapenemases FLC-1 and IMI-2 Encoded by an <i>Enterobacter cloacae</i> Complex Isolated from Food Products. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	21
23	Patterns of community assembly in the developing chicken microbiome reveal rapid primary succession. <i>MicrobiologyOpen</i> , 2019, 8, e00821.	3.0	82
24	Four types of scrapie in goats differentiated from each other and bovine spongiform encephalopathy by biochemical methods. <i>Veterinary Research</i> , 2019, 50, 97.	3.0	11
25	The antimicrobial resistome in relation to antimicrobial use and biosecurity in pig farming, a metagenome-wide association study in nine European countries. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 865-876.	3.0	63
26	<i>Enterobacter cloacae</i> Complex Isolated from Shrimps from Vietnam Carrying <i>bla</i> _{IMI-1} Resistant to Carbapenems but Not Cephalosporins. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	27
27	Novel Highly Pathogenic Avian Influenza A(H5N6) Virus in the Netherlands, December 2017. <i>Emerging Infectious Diseases</i> , 2018, 24, 770-773.	4.3	61
28	Genomic and functional characterisation of IncX3 plasmids encoding <i>bla</i> SHV-12 in <i>Escherichia coli</i> from human and animal origin. <i>Scientific Reports</i> , 2018, 8, 7674.	3.3	38
29	Abundance and diversity of the faecal resistome in slaughter pigs and broilers in nine European countries. <i>Nature Microbiology</i> , 2018, 3, 898-908.	13.3	230
30	Modelling of strategies for genetic control of scrapie in sheep: The importance of population structure. <i>PLoS ONE</i> , 2018, 13, e0195009.	2.5	12
31	Indoor airborne microbiota composition associated with asthma and atopy in rural children. , 2018, , .		2
32	EU-approved rapid tests might underestimate bovine spongiform encephalopathy infection in goats. <i>Journal of Veterinary Diagnostic Investigation</i> , 2017, 29, 232-236.	1.1	3
33	Perturbation of microbiota in one-day old broiler chickens with antibiotic for 24 hours negatively affects intestinal immune development. <i>BMC Genomics</i> , 2017, 18, 241.	2.8	112
34	Molecular analysis of three <i>Clostridium difficile</i> strain genomes isolated from pig farm-related samples. <i>Anaerobe</i> , 2017, 48, 224-231.	2.1	4
35	Plasmids of Distinct IncK Lineages Show Compatible Phenotypes. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	28
36	<i>Mycoplasma</i> detection by triplex real-time PCR in bronchoalveolar lavage fluid from bovine respiratory disease complex cases. <i>BMC Veterinary Research</i> , 2017, 13, 97.	1.9	15

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37	Genome Plasticity and Polymorphisms in Critical Genes Correlate with Increased Virulence of Dutch Outbreak-Related <i>Coxiella burnetii</i> Strains. <i>Frontiers in Microbiology</i> , 2017, 8, 1526.	3.5	26
38	Evaluation of a multiplex real-time PCR for detection of four bacterial agents commonly associated with bovine respiratory disease in bronchoalveolar lavage fluid. <i>BMC Veterinary Research</i> , 2017, 13, 221.	1.9	13
39	Protecting effect of PrP codons M142 and K222 in goats orally challenged with bovine spongiform encephalopathy prions. <i>Veterinary Research</i> , 2017, 48, 52.	3.0	12
40	Multiple Reassorted Viruses as Cause of Highly Pathogenic Avian Influenza A(H5N8) Virus Epidemic, the Netherlands, 2016. <i>Emerging Infectious Diseases</i> , 2017, 23, 1974-1981.	4.3	70
41	<i>Veterinary Molecular Diagnostics.</i> , 2017, , 219-234.		0
42	Variation in the prion protein sequence in Dutch goat breeds. <i>Journal of Animal Breeding and Genetics</i> , 2016, 133, 366-374.	2.0	13
43	First Complete Genome Sequence of the Dutch Veterinary <i>Coxiella burnetii</i> Strain NL3262, Originating from the Largest Global Q Fever Outbreak, and Draft Genome Sequence of Its Epidemiologically Linked Chronic Human Isolate NLhu3345937. <i>Genome Announcements</i> , 2016, 4, .	0.8	16
44	Genetic, histochemical and biochemical studies on goat TSE cases from Cyprus. <i>Veterinary Research</i> , 2016, 47, 99.	3.0	11
45	Immunolabelling of non-phosphorylated neurofilament indicates damage of spinal cord axons in TSE-infected goats. <i>Veterinary Record</i> , 2016, 178, 141-141.	0.3	6
46	Prion Type-Dependent Deposition of <i>PRNP</i> Allelic Products in Heterozygous Sheep. <i>Journal of Virology</i> , 2016, 90, 805-812.	3.4	9
47	TSE strain differentiation in mice by immunohistochemical <i>PrP^{Sc}</i> profiles and triplex Western blot. <i>Neuropathology and Applied Neurobiology</i> , 2015, 41, 756-779.	3.2	18
48	Major differential gene regulation in <i>Coxiella burnetii</i> between in vivo and in vitro cultivation models. <i>BMC Genomics</i> , 2015, 16, 953.	2.8	34
49	Effect of Q ₂₁₁ and K ₂₂₂ <i>PRNP</i> Polymorphic Variants in the Susceptibility of Goats to Oral Infection With Goat Bovine Spongiform Encephalopathy. <i>Journal of Infectious Diseases</i> , 2015, 212, 664-672.	4.0	27
50	Incl shufflons: Assembly issues in the next-generation sequencing era. <i>Plasmid</i> , 2015, 80, 111-117.	1.4	30
51	Characterization of Epidemic Incl1-Î³ Plasmids Harboring Ambler Class A and C Genes in <i>Escherichia coli</i> and <i>Salmonella enterica</i> from Animals and Humans. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 5357-5365.	3.2	62
52	Full-Genome Sequence of Influenza A(H5N8) Virus in Poultry Linked to Sequences of Strains from Asia, the Netherlands, 2014. <i>Emerging Infectious Diseases</i> , 2015, 21, 872-874.	4.3	47
53	The Genome of Winter Moth (<i>Operophtera brumata</i>) Provides a Genomic Perspective on Sexual Dimorphism and Phenology. <i>Genome Biology and Evolution</i> , 2015, 7, 2321-2332.	2.5	70
54	Development of a DNA-based microarray for the detection of zoonotic pathogens in rodent species. <i>Molecular and Cellular Probes</i> , 2015, 29, 427-437.	2.1	3

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55	Whole genome PCR scanning (WGPS) of <i>Coxiella burnetii</i> strains from ruminants. <i>Microbes and Infection</i> , 2015, 17, 772-775.	1.9	7
56	Early life microbial colonization of the gut and intestinal development differ between genetically divergent broiler lines. <i>BMC Genomics</i> , 2015, 16, 418.	2.8	107
57	Cell-Free Propagation of <i>Coxiella burnetii</i> Does Not Affect Its Relative Virulence. <i>PLoS ONE</i> , 2015, 10, e0121661.	2.5	19
58	Phylogenetic analysis of highly pathogenic avian influenza A(H5N8) virus outbreak strains provides evidence for four separate introductions and one between-poultry farm transmission in the Netherlands, November 2014. <i>Eurosurveillance</i> , 2015, 20, .	7.0	65
59	Sheep prions with molecular properties intermediate between classical scrapie, BSE and CH1641 scrapie. <i>Prion</i> , 2014, 8, 296-305.	1.8	8
60	Complete Genome Sequences of IncI1 Plasmids Carrying Extended-Spectrum β -Lactamase Genes. <i>Genome Announcements</i> , 2014, 2, .	0.8	19
61	Role of the Goat K222-PrPC Polymorphic Variant in Prion Infection Resistance. <i>Journal of Virology</i> , 2014, 88, 2670-2676.	3.4	48
62	Genomic and phylogenetic characterization of Shuni virus. <i>Archives of Virology</i> , 2014, 159, 2883-2892.	2.1	10
63	Enhanced Virulence of Sheep-Passaged Bovine Spongiform Encephalopathy Agent Is Revealed by Decreased Polymorphism Barriers in Prion Protein Conversion Studies. <i>Journal of Virology</i> , 2014, 88, 2903-2912.	3.4	16
64	Gene expression profiling of mesenteric lymph nodes from sheep with natural scrapie. <i>BMC Genomics</i> , 2014, 15, 59.	2.8	27
65	Paramyxovirus-based production of Rift Valley fever virus replicon particles. <i>Journal of General Virology</i> , 2014, 95, 2638-2648.	2.9	5
66	Comparative genomic analysis of twelve <i>Streptococcus suis</i> (pro)phages. <i>Genomics</i> , 2013, 101, 336-344.	2.9	41
67	Clinical microbiology of <i>Coxiella burnetii</i> and relevant aspects for the diagnosis and control of the zoonotic disease Q fever. <i>Veterinary Quarterly</i> , 2013, 33, 148-160.	6.7	57
68	Genetic characterization of an atypical Schmallenberg virus isolated from the brain of a malformed lamb. <i>Virus Genes</i> , 2013, 47, 505-514.	1.6	21
69	Complete Genome Sequence of the <i>Streptococcus suis</i> Temperate Bacteriophage ϕ -NJ2. <i>Genome Announcements</i> , 2013, 1, .	0.8	2
70	Q Fever Diagnosis and Control in Domestic Ruminants. <i>Developments in Biologicals</i> , 2013, 135, 183-189.	0.5	9
71	Prion Protein Self-Peptides. , 2013, , .		0
72	Medulla oblongata transcriptome changes during presymptomatic natural scrapie and their association with prion-related lesions. <i>BMC Genomics</i> , 2012, 13, 399.	2.8	12

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73	Caprine prion gene polymorphisms are associated with decreased incidence of classical scrapie in goat herds in the United Kingdom. <i>Veterinary Research</i> , 2011, 42, 110.	3.0	63
74	Prion protein self-interaction in prion disease therapy approaches. <i>Veterinary Quarterly</i> , 2011, 31, 115-128.	6.7	2
75	Proteinase K-Resistant Material in ARR/VRQ Sheep Brain Affected with Classical Scrapie Is Composed Mainly of VRQ Prion Protein. <i>Journal of Virology</i> , 2011, 85, 12537-12546.	3.4	31
76	Differentiation of ruminant transmissible spongiform encephalopathy isolate types, including bovine spongiform encephalopathy and CH1641 scrapie. <i>Journal of General Virology</i> , 2011, 92, 222-232.	2.9	25
77	Four Independent Molecular Prion Protein Parameters for Discriminating New Cases of C, L, and H Bovine Spongiform Encephalopathy in Cattle. <i>Journal of Clinical Microbiology</i> , 2011, 49, 3026-3028.	3.9	16
78	Gene Expression Profiling and Association with Prion-Related Lesions in the Medulla Oblongata of Symptomatic Natural Scrapie Animals. <i>PLoS ONE</i> , 2011, 6, e19909.	2.5	19
79	Eradication of scrapie with selective breeding: are we nearly there?. <i>BMC Veterinary Research</i> , 2010, 6, 24.	1.9	28
80	Scrapie prevalence in sheep of susceptible genotype is declining in a population subject to breeding for resistance. <i>BMC Veterinary Research</i> , 2010, 6, 25.	1.9	39
81	Complete genome sequence and taxonomic position of anguillid herpesvirus 1. <i>Journal of General Virology</i> , 2010, 91, 880-887.	2.9	68
82	Prion protein self-interactions: A gateway to novel therapeutic strategies?. <i>Vaccine</i> , 2010, 28, 7810-7823.	3.8	10
83	Human variant Creutzfeldt-Jakob disease and sheep scrapie PrPres detection using seeded conversion of recombinant prion protein. <i>Protein Engineering, Design and Selection</i> , 2009, 22, 515-521.	2.1	59
84	Prion protein self-peptides modulate prion interactions and conversion. <i>BMC Biochemistry</i> , 2009, 10, 29.	4.4	9
85	Mapping Functional Prion-Prion Protein Interaction Sites Using Prion Protein Based Peptide-Arrays. <i>Methods in Molecular Biology</i> , 2009, 570, 257-271.	0.9	3
86	State-of-the-art review of goat TSE in the European Union, with special emphasis on PRNP genetics and epidemiology. <i>Veterinary Research</i> , 2009, 40, 48.	3.0	119
87	Pathogenesis of bovine spongiform encephalopathy in sheep. <i>Archives of Virology</i> , 2008, 153, 445-453.	2.1	61
88	Genetic variability of the PRNP gene in goat breeds from Northern and Southern Italy. <i>Journal of Applied Microbiology</i> , 2008, 104, 1782-1789.	3.1	39
89	TSE pathogenesis in cattle and sheep. <i>Veterinary Research</i> , 2008, 39, 24.	3.0	87
90	Resistance to Chronic Wasting Disease in Transgenic Mice Expressing a Naturally Occurring Allelic Variant of Deer Prion Protein. <i>Journal of Virology</i> , 2007, 81, 4533-4539.	3.4	75

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91	PrP genotypes in a pedigree flock of Santa In�s sheep. <i>Veterinary Record</i> , 2007, 160, 336-337.	0.3	10
92	Mapping of possible prion protein self-interaction domains using peptide arrays. <i>BMC Biochemistry</i> , 2007, 8, 6.	4.4	36
93	Rapid and discriminatory diagnosis of scrapie and BSE in retro-pharyngeal lymph nodes of sheep. <i>BMC Veterinary Research</i> , 2006, 2, 19.	1.9	113
94	Identification of prion protein gene polymorphisms in goats from Italian scrapie outbreaks. <i>Journal of General Virology</i> , 2006, 87, 1029-1033.	2.9	95
95	Sheep scrapie susceptibility-linked polymorphisms do not modulate the initial binding of cellular to disease-associated prion protein prior to conversion. <i>Journal of General Virology</i> , 2005, 86, 2627-2634.	2.9	18
96	Discrimination between Scrapie and Bovine Spongiform Encephalopathy in Sheep by Molecular Size, Immunoreactivity, and Glycoprofile of Prion Protein. <i>Journal of Clinical Microbiology</i> , 2004, 42, 972-980.	3.9	110
97	Low frequency of the scrapie resistance-associated allele and presence of lysine-171 allele of the prion protein gene in Italian Biellese ovine breed. <i>Journal of General Virology</i> , 2004, 85, 3165-3172.	2.9	38
98	In vitro conversion of normal prion protein into pathologic isoforms. <i>Clinics in Laboratory Medicine</i> , 2003, 23, 227-247.	1.4	10
99	Enzymatic Degradation of Prion Protein in Brain Stem from Infected Cattle and Sheep. <i>Journal of Infectious Diseases</i> , 2003, 188, 1782-1789.	4.0	140
100	Applicability of three anti-PrP peptide sera including staining of tonsils and brainstem of sheep with scrapie. <i>Microscopy Research and Technique</i> , 2000, 50, 32-39.	2.2	25
101	Evidence of a molecular barrier limiting susceptibility of humans, cattle and sheep to chronic wasting disease. <i>EMBO Journal</i> , 2000, 19, 4425-4430.	7.8	254
102	Susceptibility of Sheep for Scrapie as Assessed by In Vitro Conversion of Nine Naturally Occurring Variants of PrP. <i>Journal of Virology</i> , 2000, 74, 1407-1414.	3.4	114
103	PrP genotype frequencies of the most dominant sheep breed in a country free from scrapie. <i>Archives of Virology</i> , 1999, 144, 829-834.	2.1	42
104	Prion Protein and scrapie susceptibility. <i>Veterinary Quarterly</i> , 1997, 19, 101-105.	6.7	23
105	Scrapie susceptibility-linked polymorphisms modulate the in vitro conversion of sheep prion protein to protease-resistant forms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 4931-4936.	7.1	169
106	Molecular assessment of the potential transmissibilities of BSE and scrapie to humans. <i>Nature</i> , 1997, 388, 285-288.	27.8	259
107	Classical swine fever virus (CSFV) envelope glycoprotein E2 containing one structural antigenic unit protects pigs from lethal CSFV challenge. <i>Journal of General Virology</i> , 1996, 77, 2737-2745.	2.9	128
108	PrP Allelic Variants Associated with Natural Scrapie. , 1996, , 294-305.		11