

David G E Smith

List of Publications by Year in descending order

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97
papers

4,341
citations

101384

36
h-index

123241

61
g-index

102
all docs

102
docs citations

102
times ranked

4047
citing authors

#	ARTICLE	IF	CITATIONS
1	Lymphoid Follicle-Dense Mucosa at the Terminal Rectum Is the Principal Site of Colonization of Enterohemorrhagic <i>Escherichia coli</i> O157:H7 in the Bovine Host. <i>Infection and Immunity</i> , 2003, 71, 1505-1512.	1.0	474
2	Host-response patterns of intramammary infections in dairy cows. <i>Veterinary Immunology and Immunopathology</i> , 2011, 144, 270-289.	0.5	274
3	Rectal Carriage of Enterohemorrhagic <i>Escherichia coli</i> O157 in Slaughtered Cattle. <i>Applied and Environmental Microbiology</i> , 2005, 71, 93-97.	1.4	165
4	<i>Campylobacter jejuni</i> Outer Membrane Vesicles Play an Important Role in Bacterial Interactions with Human Intestinal Epithelial Cells. <i>Infection and Immunity</i> , 2012, 80, 4089-4098.	1.0	138
5	<i>Escherichia coli</i> O157:H7 forms attaching and effacing lesions at the terminal rectum of cattle and colonization requires the LEE4 operon. <i>Microbiology (United Kingdom)</i> , 2005, 151, 2773-2781.	0.7	132
6	An investigation of the expression and adhesin function of H7 flagella in the interaction of <i>Escherichia coli</i> O157:H7 with bovine intestinal epithelium. <i>Cellular Microbiology</i> , 2009, 11, 121-137.	1.1	131
7	Differential Endometrial Cell Sensitivity to a Cholesterol-Dependent Cytolysin Links <i>Trueperella pyogenes</i> to Uterine Disease in Cattle. <i>Biology of Reproduction</i> , 2014, 90, 54.	1.2	103
8	Analysis of fimbrial gene clusters and their expression in enterohaemorrhagic <i>Escherichia coli</i> O157:H7. <i>Environmental Microbiology</i> , 2006, 8, 1033-1047.	1.8	98
9	Verotoxin 1 binding to intestinal crypt epithelial cells results in localization to lysosomes and abrogation of toxicity. <i>Cellular Microbiology</i> , 2003, 5, 85-97.	1.1	92
10	Cloning, Expression, and Characterization of Fimbrial Operon F9 from Enterohemorrhagic <i>Escherichia coli</i> O157:H7. <i>Infection and Immunity</i> , 2006, 74, 2233-2244.	1.0	89
11	Immunization of cattle with a combination of purified intimin-531, EspA and Tir significantly reduces shedding of <i>Escherichia coli</i> O157:H7 following oral challenge. <i>Vaccine</i> , 2010, 28, 1422-1428.	1.7	83
12	Heterogeneous Surface Expression of EspA Translocon Filaments by <i>Escherichia coli</i> O157:H7 Is Controlled at the Posttranscriptional Level. <i>Infection and Immunity</i> , 2003, 71, 5900-5909.	1.0	82
13	EspP, a Type V-secreted serine protease of enterohaemorrhagic <i>Escherichia coli</i> O157:H7, influences intestinal colonization of calves and adherence to bovine primary intestinal epithelial cells. <i>FEMS Microbiology Letters</i> , 2007, 271, 258-264.	0.7	75
14	<i>Escherichia coli</i> O157:H7 Colonization in Cattle following Systemic and Mucosal Immunization with Purified H7 Flagellin. <i>Infection and Immunity</i> , 2008, 76, 2594-2602.	1.0	75
15	Differences in Levels of Secreted Locus of Enterocyte Effacement Proteins between Human Disease-Associated and Bovine <i>Escherichia coli</i> O157. <i>Infection and Immunity</i> , 2001, 69, 5107-5114.	1.0	73
16	Phenotypic and Functional Heterogeneity of Bovine Blood Monocytes. <i>PLoS ONE</i> , 2013, 8, e71502.	1.1	72
17	Phylogenomic exploration of the relationships between strains of <i>Mycobacterium avium</i> subspecies paratuberculosis. <i>BMC Genomics</i> , 2016, 17, 79.	1.2	71
18	Ultra-fast tandem mass spectrometry scanning combined with monolithic column liquid chromatography increases throughput in proteomic analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2074-2080.	0.7	70

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19	Direct and indirect transcriptional activation of virulence genes by an AraC-like protein, PerA from enteropathogenic <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2004, 54, 1117-1133.	1.2	68
20	Genome-wide fitness analyses of the foodborne pathogen <i>Campylobacter jejuni</i> in in vitro and in vivo models. <i>Scientific Reports</i> , 2017, 7, 1251.	1.6	64
21	Genomic and Surface Proteomic Analysis of the Canine Pathogen <i>Staphylococcus pseudintermedius</i> Reveals Proteins That Mediate Adherence to the Extracellular Matrix. <i>Infection and Immunity</i> , 2011, 79, 3074-3086.	1.0	63
22	Expression of receptors for verotoxin 1 from <i>Escherichia coli</i> O157 on bovine intestinal epithelium. <i>Journal of Medical Microbiology</i> , 2002, 51, 143-149.	0.7	62
23	The LEE1 Promoters from both Enteropathogenic and Enterohemorrhagic <i>Escherichia coli</i> Can Be Activated by PerC-Like Proteins from Either Organism. <i>Journal of Bacteriology</i> , 2005, 187, 458-472.	1.0	58
24	A Highly Conserved Bacterial D-Serine Uptake System Links Host Metabolism and Virulence. <i>PLoS Pathogens</i> , 2016, 12, e1005359.	2.1	55
25	Effects of sub-MIC concentrations of antibiotics on growth of and toxin production by <i>Clostridium difficile</i> . <i>Journal of Medical Microbiology</i> , 2003, 52, 1033-1038.	0.7	54
26	Influence of carbon dioxide on the surface characteristics and adherence potential of coagulase-negative staphylococci. <i>Journal of Clinical Microbiology</i> , 1990, 28, 1813-1817.	1.8	52
27	Genomic content typifying a prevalent clade of bovine mastitis-associated <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2016, 6, 30115.	1.6	51
28	Co-ordinate single-cell expression of LEE4- and LEE5-encoded proteins of <i>Escherichia coli</i> O157:H7. <i>Molecular Microbiology</i> , 2004, 54, 337-352.	1.2	50
29	Changes in sensitivity patterns to selected antibiotics in <i>Clostridium difficile</i> in geriatric in-patients over an 18-month period. <i>Journal of Medical Microbiology</i> , 2003, 52, 259-263.	0.7	48
30	Analysis of the expression, regulation and export of NleA in <i>Escherichia coli</i> O157:H7. <i>Microbiology (United Kingdom)</i> , 2007, 153, 1350-1360.	0.7	47
31	Local immunization impacts the response of dairy cows to <i>Escherichia coli</i> mastitis. <i>Scientific Reports</i> , 2017, 7, 3441.	1.6	47
32	Gamma Interferon Influences Intestinal Epithelial Hyperplasia Caused by <i>Lawsonia intracellularis</i> Infection in Mice. <i>Infection and Immunity</i> , 2000, 68, 6737-6743.	1.0	46
33	Postgenomics Characterization of an Essential Genetic Determinant of Mammary Pathogenic <i>Escherichia coli</i> . <i>MBio</i> , 2018, 9, .	1.8	46
34	Effects of carbon dioxide and sub-lethal levels of antibiotics on adherence of coagulase-negative staphylococci to polystyrene and silicone rubber. <i>Journal of Antimicrobial Chemotherapy</i> , 1991, 27, 577-587.	1.3	43
35	The host metabolite D-serine contributes to bacterial niche specificity through gene selection. <i>ISME Journal</i> , 2015, 9, 1039-1051.	4.4	43
36	Propionic Acid Promotes the Virulent Phenotype of Crohn's Disease-Associated Adherent-Invasive <i>Escherichia coli</i> . <i>Cell Reports</i> , 2020, 30, 2297-2305.e5.	2.9	42

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37	Characterization of cell envelope proteins of <i>Staphylococcus epidermidis</i> cultured in human peritoneal dialysate. <i>Infection and Immunity</i> , 1991, 59, 617-624.	1.0	42
38	Host-associated niche metabolism controls enteric infection through fine-tuning the regulation of type 3 secretion. <i>Nature Communications</i> , 2018, 9, 4187.	5.8	41
39	LsaA, an Antigen Involved in Cell Attachment and Invasion, Is Expressed by <i>Lawsonia intracellularis</i> during Infection In Vitro and In Vivo. <i>Infection and Immunity</i> , 2002, 70, 2899-2907.	1.0	39
40	Variation in the expression of cell envelope proteins of coagulase-negative staphylococci cultured under iron-restricted conditions in human peritoneal dialysate. <i>Journal of General Microbiology</i> , 1991, 137, 2561-2570.	2.3	35
41	Influence of carbon dioxide on growth and antibiotic susceptibility of coagulase-negative staphylococci cultured in human peritoneal dialysate. <i>Journal of Clinical Microbiology</i> , 1990, 28, 2183-2186.	1.8	35
42	<i>Campylobacter jejuni</i> 81-176 forms distinct microcolonies on in vitro-infected human small intestinal tissue prior to biofilm formation. <i>Microbiology (United Kingdom)</i> , 2010, 156, 3079-3084.	0.7	33
43	Peripheral blood leukocytes of cows with subclinical endometritis show an altered cellular composition and gene expression. <i>Theriogenology</i> , 2014, 81, 906-917.	0.9	32
44	Characterization of the in vitro core surface proteome of <i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> , the causative agent of contagious bovine pleuropneumonia. <i>Veterinary Microbiology</i> , 2014, 168, 116-123.	0.8	29
45	Mevalonate Biosynthesis Intermediates Are Key Regulators of Innate Immunity in Bovine Endometritis. <i>Journal of Immunology</i> , 2016, 196, 823-831.	0.4	29
46	In vitro antagonistic activities of <i>Lactobacillus</i> spp. against <i>Brachyspira hyodysenteriae</i> and <i>Brachyspira pilosicoli</i> . <i>Veterinary Microbiology</i> , 2009, 138, 184-190.	0.8	27
47	Optimizing the Protection of Cattle against <i>Escherichia coli</i> O157:H7 Colonization through Immunization with Different Combinations of H7 Flagellin, Tir, Intimin-531 or EspA. <i>PLoS ONE</i> , 2015, 10, e0128391.	1.1	27
48	Host species adaptation of TLR5 signalling and flagellin recognition. <i>Scientific Reports</i> , 2017, 7, 17677.	1.6	27
49	The bile salt sodium taurocholate induces <i>Campylobacter jejuni</i> outer membrane vesicle production and increases OMV-associated proteolytic activity. <i>Cellular Microbiology</i> , 2018, 20, e12814.	1.1	27
50	MALDIrppa: quality control and robust analysis for mass spectrometry data. <i>Bioinformatics</i> , 2018, 34, 522-523.	1.8	26
51	A population genomics approach to exploiting the accessory 'resistome' of <i>Escherichia coli</i> . <i>Microbial Genomics</i> , 2017, 3, e000108.	1.0	26
52	Evidence of land-sea transfer of the zoonotic pathogen <i>Campylobacter</i> to a wildlife marine sentinel species. <i>Molecular Ecology</i> , 2015, 24, 208-221.	2.0	25
53	Unexpected differential metabolic responses of <i>Campylobacter jejuni</i> to the abundant presence of glutamate and fucose. <i>Metabolomics</i> , 2018, 14, 144.	1.4	25
54	Shedding of <i>Escherichia coli</i> O157:H7 in Calves Is Reduced by Prior Colonization with the Homologous Strain. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3765-3767.	1.4	23

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55	Expression by <i>Lawsonia intracellularis</i> of type III secretion system components during infection. <i>Veterinary Microbiology</i> , 2009, 139, 298-303.	0.8	23
56	IgA and IgG antibody responses following systemic immunization of cattle with native H7 flagellin differ in epitope recognition and capacity to neutralise TLR5 signalling. <i>Vaccine</i> , 2010, 28, 1412-1421.	1.7	22
57	Superoxide dismutase SodB is a protective antigen against <i>Campylobacter jejuni</i> colonisation in chickens. <i>Vaccine</i> , 2015, 33, 6206-6211.	1.7	22
58	<i>Staphylococcus aureus</i> Phenol-Soluble Modulins Impair Interleukin Expression in Bovine Mammary Epithelial Cells. <i>Infection and Immunity</i> , 2016, 84, 1682-1692.	1.0	22
59	Functional characterisation of bovine TLR5 indicates species-specific recognition of flagellin. <i>Veterinary Immunology and Immunopathology</i> , 2014, 157, 197-205.	0.5	21
60	Analysis of <i>Campylobacter jejuni</i> infection in the gnotobiotic piglet and genome-wide identification of bacterial factors required for infection. <i>Scientific Reports</i> , 2017, 7, 44283.	1.6	21
61	Subclinical endometritis in dairy cattle is associated with distinct mRNA expression patterns in blood and endometrium. <i>PLoS ONE</i> , 2019, 14, e0220244.	1.1	21
62	Novel Single Nucleotide Polymorphism-Based Assay for Genotyping <i>Mycobacterium avium</i> subsp. paratuberculosis. <i>Journal of Clinical Microbiology</i> , 2016, 54, 556-564.	1.8	18
63	Immunomodulation of Host Chitinase 3-Like 1 During a Mammary Pathogenic <i>Escherichia coli</i> Infection. <i>Frontiers in Immunology</i> , 2018, 9, 1143.	2.2	18
64	Consequences of EHEC colonisation in humans and cattle. <i>International Journal of Medical Microbiology</i> , 2002, 292, 169-183.	1.5	17
65	Genome Sequence of <i>Lawsonia intracellularis</i> Strain N343, Isolated from a Sow with Hemorrhagic Proliferative Enteropathy. <i>Genome Announcements</i> , 2013, 1, .	0.8	17
66	Proteomic analysis of <i>Lawsonia intracellularis</i> reveals expression of outer membrane proteins during infection. <i>Veterinary Microbiology</i> , 2014, 174, 448-455.	0.8	17
67	Functional analysis of bovine TLR5 and association with IgA responses of cattle following systemic immunisation with H7 flagella. <i>Veterinary Research</i> , 2015, 46, 9.	1.1	17
68	Substantial Extracellular Metabolic Differences Found Between Phylogenetically Closely Related Probiotic and Pathogenic Strains of <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 252.	1.5	17
69	Antimicrobial Properties of Gallium(III)- and Iron(III)-Loaded Polysaccharides Affecting the Growth of <i>Escherichia coli</i> , <i>Staphylococcus aureus</i> , and <i>Pseudomonas aeruginosa</i> , In Vitro. <i>ACS Applied Bio Materials</i> , 2020, 3, 7589-7597.	2.3	16
70	Processing of <i>Chlamydia abortus</i> Polymorphic Membrane Protein 18D during the Chlamydial Developmental Cycle. <i>PLoS ONE</i> , 2012, 7, e49190.	1.1	15
71	A Novel <i>Lawsonia intracellularis</i> Autotransporter Protein Is a Prominent Antigen. <i>Vaccine Journal</i> , 2011, 18, 1282-1287.	3.2	14
72	Complete Genome Sequences of <i>Corynebacterium pseudotuberculosis</i> Strains 3/99-5 and 42/02-A, Isolated from Sheep in Scotland and Australia, Respectively. <i>Journal of Bacteriology</i> , 2012, 194, 4736-4737.	1.0	14

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73	Draft Genome Sequence of <i>Escherichia coli</i> MS499, Isolated from the Infected Uterus of a Postpartum Cow with Metritis. <i>Genome Announcements</i> , 2014, 2, .	0.8	14
74	Simple methods for measurement of bovine mucosal antibody responses in vivo. <i>Veterinary Immunology and Immunopathology</i> , 2007, 118, 160-167.	0.5	13
75	Characterisation of proteins extracted from the surface of <i>Salmonella</i> Typhimurium grown under SPI2-inducing conditions by LC-ESI/MS/MS sequencing. <i>Proteomics</i> , 2011, 11, 361-370.	1.3	13
76	Genome Sequence of the <i>Chlamydomonas</i> abortus Variant Strain LLG. <i>Journal of Bacteriology</i> , 2011, 193, 4276-4277.	1.0	13
77	Complete Genome Sequence of <i>Corynebacterium pseudotuberculosis</i> Strain 1/06-A, Isolated from a Horse in North America. <i>Journal of Bacteriology</i> , 2012, 194, 4476-4476.	1.0	13
78	Genomic characterisation of an endometrial pathogenic <i>Escherichia coli</i> strain reveals the acquisition of genetic elements associated with extra-intestinal pathogenicity. <i>BMC Genomics</i> , 2014, 15, 1075.	1.2	13
79	Comparative molecular analysis of ovine and bovine <i>Streptococcus uberis</i> isolates. <i>Journal of Dairy Science</i> , 2013, 96, 962-970.	1.4	12
80	Expression patterns of five polymorphic membrane proteins during the <i>Chlamydia abortus</i> developmental cycle. <i>Veterinary Microbiology</i> , 2012, 160, 525-529.	0.8	11
81	Proteomic and genomic analysis reveals novel <i>Campylobacter jejuni</i> outer membrane proteins and potential heterogeneity. <i>EuPA Open Proteomics</i> , 2014, 4, 184-194.	2.5	11
82	Draft Genome Sequence of <i>Trueperella pyogenes</i> , Isolated from the Infected Uterus of a Postpartum Cow with Metritis. <i>Genome Announcements</i> , 2014, 2, .	0.8	11
83	Immunomagnetic separation of the intestinal spirochaetes <i>Brachyspira pilosicoli</i> and <i>Brachyspira hyodysenteriae</i> from porcine faeces. <i>Journal of Medical Microbiology</i> , 2004, 53, 301-307.	0.7	10
84	Plasmid Mediated mcr-1.1 Colistin-Resistance in Clinical Extraintestinal <i>Escherichia coli</i> Strains Isolated in Poland. <i>Frontiers in Microbiology</i> , 2021, 12, 547020.	1.5	10
85	Genetic variability of <i>Chlamydomonas</i> abortus strains assessed by PCR-RFLP analysis of polymorphic membrane protein-encoding genes. <i>Veterinary Microbiology</i> , 2011, 151, 284-290.	0.8	9
86	Phosphorylation of the epidermal growth factor receptor (EGFR) is essential for interleukin-8 release from intestinal epithelial cells in response to challenge with <i>Escherichia coli</i> O157:H7 flagellin. <i>Microbiology (United Kingdom)</i> , 2011, 157, 2339-2347.	0.7	9
87	Rapid and robust analytical protocol for <i>E. coli</i> STEC bacteria subspecies differentiation using whole cell MALDI mass spectrometry. <i>Talanta</i> , 2018, 182, 164-170.	2.9	9
88	Risk factors associated with <i>Lawsonia intracellularis</i> in English pig farms. <i>Veterinary Journal</i> , 2013, 197, 707-711.	0.6	8
89	Variant O89 O-Antigen of <i>E. coli</i> Is Associated With Group 1 Capsule Loci and Multidrug Resistance. <i>Frontiers in Microbiology</i> , 2018, 9, 2026.	1.5	8
90	Performance of five different electrospray ionisation sources in conjunction with rapid monolithic column liquid chromatography and fast MS/MS scanning. <i>Proteomics</i> , 2009, 9, 1720-1726.	1.3	7

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91	Antibacterial Activities of Ga(III) against E.Âcoli Are Substantially Impacted by Fe(III) Uptake Systems and Multidrug Resistance in Combination with Oxygen Levels. ACS Infectious Diseases, 2020, 6, 2959-2969.	1.8	7
92	Verotoxin-2 Activates Mitogen-Activated Protein Kinases in Bovine Adherent Peripheral Blood Mononuclear Cells. Journal of Comparative Pathology, 2012, 147, 20-23.	0.1	3
93	Lipopolysaccharide core type diversity in the Escherichia coli species in association with phylogeny, virulence gene repertoire and distribution of type VI secretion systems. Microbial Genomics, 2021, 7, .	1.0	3
94	Differences in Levels of Secreted Locus of Enterocyte Effacement Proteins between Human Disease-Associated and Bovine Escherichia coli O157. Infection and Immunity, 2005, 73, 2571-2571.	1.0	2
95	Targeted Allele Replacement Mutagenesis of Corynebacterium pseudotuberculosis. Applied and Environmental Microbiology, 2011, 77, 3532-3535.	1.4	2
96	Draft Genome Sequence of Isolate Staphylococcus aureus LHSKBClinical, Isolated from an Infected Hip. Genome Announcements, 2015, 3, .	0.8	2
97	Draft Genome Sequences of Enterohemorrhagic Escherichia coli Encoding Extended-Spectrum Beta-Lactamases. Genome Announcements, 2016, 4, .	0.8	1