

Andrew J Roe

List of Publications by Year in descending order

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79
papers

3,695
citations

109137

35
h-index

138251

58
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87
all docs

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docs citations

87
times ranked

4216
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of <i>Escherichia coli</i> growth by acetic acid: a problem with methionine biosynthesis and homocysteine toxicity. <i>Microbiology (United Kingdom)</i> , 2002, 148, 2215-2222.	0.7	294
2	Perturbation of Anion Balance during Inhibition of Growth of <i>Escherichia coli</i> by Weak Acids. <i>Journal of Bacteriology</i> , 1998, 180, 767-772.	1.0	271
3	Antibiotics induce sustained dysregulation of intestinal T cell immunity by perturbing macrophage homeostasis. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	200
4	<i>Salmonella</i> Transforms Follicle-Associated Epithelial Cells into M Cells to Promote Intestinal Invasion. <i>Cell Host and Microbe</i> , 2012, 12, 645-656.	5.1	144
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	A comparison of enteropathogenic and enterohaemorrhagic <i>Escherichia coli</i> pathogenesis. <i>FEMS Microbiology Letters</i> , 2006, 255, 187-202.	0.7	118
8	LOV to BLUF: Flavoprotein Contributions to the Optogenetic Toolkit. <i>Molecular Plant</i> , 2012, 5, 533-544.	3.9	116
9	LOV-based reporters for fluorescence imaging. <i>Current Opinion in Chemical Biology</i> , 2015, 27, 39-45.	2.8	104
10	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
11	Identification of Bacterial Target Proteins for the Salicylidene Acylhydrazide Class of Virulence-blocking Compounds. <i>Journal of Biological Chemistry</i> , 2011, 286, 29922-29931.	1.6	94
12	Regulators Encoded in the <i>Escherichia coli</i> Type III Secretion System 2 Gene Cluster Influence Expression of Genes within the Locus for Enterocyte Effacement in Enterohemorrhagic <i>E. coli</i> O157:H7. <i>Infection and Immunity</i> , 2004, 72, 7282-7293.	1.0	89
13	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
14	Mutation of <i>toxB</i> and a Truncated Version of the <i>efa-1</i> Gene in <i>Escherichia coli</i> O157:H7 Influences the Expression and Secretion of Locus of Enterocyte Effacement-Encoded Proteins but not Intestinal Colonization in Calves or Sheep. <i>Infection and Immunity</i> , 2004, 72, 5402-5411.	1.0	82
15	The EspF Effector, a Bacterial Pathogen's Swiss Army Knife. <i>Infection and Immunity</i> , 2010, 78, 4445-4453.	1.0	81
16	Demonstration of regulatory cross-talk between P fimbriae and type 1 fimbriae in uropathogenic <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , 2006, 152, 1143-1153.	0.7	76
17	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
18	Controlling injection: regulation of type III secretion in enterohaemorrhagic <i>Escherichia coli</i> . <i>Trends in Microbiology</i> , 2009, 17, 361-370.	3.5	69

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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	Analysis of type 1 fimbriae expression in verotoxigenic <i>Escherichia coli</i> : a comparison between serotypes O157 and O26. <i>Microbiology (United Kingdom)</i> , 2001, 147, 145-152.	0.7	64
21	Characterization of the Effects of Salicylidene Acylhydrazide Compounds on Type III Secretion in <i>Escherichia coli</i> O157:H7. <i>Infection and Immunity</i> , 2009, 77, 4209-4220.	1.0	63
22	Hierarchical type III secretion of translocators and effectors from <i>Escherichia coli</i> O157:H7 requires the carboxy terminus of SepL that binds to Tir. <i>Molecular Microbiology</i> , 2008, 69, 1499-1512.	1.2	61
23	From ingestion to colonization: the influence of the host environment on regulation of the LEE encoded type III secretion system in enterohaemorrhagic <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2015, 6, 568.	1.5	61
24	Lysogeny with Shiga Toxin 2-Encoding Bacteriophages Represses Type III Secretion in Enterohemorrhagic <i>Escherichia coli</i> . <i>PLoS Pathogens</i> , 2012, 8, e1002672.	2.1	57
25	A Highly Conserved Bacterial D-Serine Uptake System Links Host Metabolism and Virulence. <i>PLoS Pathogens</i> , 2016, 12, e1005359.	2.1	55
26	Rapid inactivation of the <i>Escherichia coli</i> Kdp K ⁺ uptake system by high potassium concentrations. <i>Molecular Microbiology</i> , 2000, 35, 1235-1243.	1.2	53
27	Increased adherence and actin pedestal formation by <i>dam</i> -deficient enterohaemorrhagic <i>Escherichia coli</i> O157:H7. <i>Molecular Microbiology</i> , 2007, 63, 1468-1481.	1.2	53
28	Lighting Up <i>Clostridium Difficile</i> : Reporting Gene Expression Using Fluorescent Lov Domains. <i>Scientific Reports</i> , 2016, 6, 23463.	1.6	51
29	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
30	Transcriptional regulators of the GAD acid stress island are carried by effector protein-encoding prophages and indirectly control type III secretion in enterohemorrhagic <i>Escherichia coli</i> O157:H7. <i>Molecular Microbiology</i> , 2011, 80, 1349-1365.	1.2	50
31	The metabolic enzyme <i>AdhE</i> controls the virulence of <i>Escherichia coli</i> O157:H7. <i>Molecular Microbiology</i> , 2014, 93, 199-211.	1.2	49
32	Analysis of the expression, regulation and export of NleA ^E in <i>Escherichia coli</i> O157:H7. <i>Microbiology (United Kingdom)</i> , 2007, 153, 1350-1360.	0.7	47
33	Postgenomics Characterization of an Essential Genetic Determinant of Mammary Pathogenic <i>Escherichia coli</i> . <i>MBio</i> , 2018, 9, .	1.8	46
34	The host metabolite D-serine contributes to bacterial niche specificity through gene selection. <i>ISME Journal</i> , 2015, 9, 1039-1051.	4.4	43
35	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
36	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

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37	Aldehyde-alcohol dehydrogenase forms a high-order spiroosome architecture critical for its activity. <i>Nature Communications</i> , 2019, 10, 4527.	5.8	39
38	Development of Antivirulence Compounds: A Biochemical Review. <i>Chemical Biology and Drug Design</i> , 2015, 85, 43-55.	1.5	31
39	Diversity in the structures and ligand-binding sites of nematode fatty acid and retinol-binding proteins revealed by Na-FAR-1 from <i>Necator americanus</i> . <i>Biochemical Journal</i> , 2015, 471, 403-414.	1.7	27
40	Visualizing the Translocation and Localization of Bacterial Type III Effector Proteins by Using a Genetically Encoded Reporter System. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2700-2708.	1.4	26
41	Express Your LOV: An Engineered Flavoprotein as a Reporter for Protein Expression and Purification. <i>PLoS ONE</i> , 2012, 7, e52962.	1.1	24
42	Characterization of the Mode of Action of Aurodox, a Type III Secretion System Inhibitor from <i>Streptomyces goldiniensis</i> . <i>Infection and Immunity</i> , 2019, 87, .	1.0	23
43	Generation of gene deletions and gene replacements in <i>Escherichia coli</i> O157:H7 using a temperature sensitive allelic exchange system. <i>Biological Procedures Online</i> , 2006, 8, 153-162.	1.4	21
44	Control freaks signals and cues governing the regulation of virulence in attaching and effacing pathogens. <i>Biochemical Society Transactions</i> , 2019, 47, 229-238.	1.6	21
45	Novel compounds targeting the enterohemorrhagic <i>Escherichia coli</i> type three secretion system reveal insights into mechanisms of secretion inhibition. <i>Molecular Microbiology</i> , 2017, 105, 606-619.	1.2	20
46	Structural Characterisation of Tpx from <i>Yersinia pseudotuberculosis</i> Reveals Insights into the Binding of Salicylidene Acylhydrazide Compounds. <i>PLoS ONE</i> , 2012, 7, e32217.	1.1	17
47	From screen to target: insights and approaches for the development of anti-virulence compounds. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 139.	1.8	17
48	Aldehyde-alcohol dehydrogenase undergoes structural transition to form extended spiroosomes for substrate channeling. <i>Communications Biology</i> , 2020, 3, 298.	2.0	16
49	Genomic and transcriptomic characterization of <i>Pseudomonas aeruginosa</i> small colony variants derived from a chronic infection model. <i>Microbial Genomics</i> , 2019, 5, .	1.0	16
50	Distinct intraspecies virulence mechanisms regulated by a conserved transcription factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19695-19704.	3.3	15
51	Enteropathogenic and enterohaemorrhagic <i>Escherichia coli</i> and diarrhoea. <i>Current Opinion in Infectious Diseases</i> , 2000, 13, 511-517.	1.3	14
52	Expression and Regulation of the <i>Escherichia coli</i> O157:H7 Effector Proteins NleH1 and NleH2. <i>PLoS ONE</i> , 2012, 7, e33408.	1.1	12
53	Identification and Characterization of Novel Compounds Blocking Shiga Toxin Expression in <i>Escherichia coli</i> O157:H7. <i>Frontiers in Microbiology</i> , 2016, 7, 1930.	1.5	12
54	Tracking elusive cargo: Illuminating spatio-temporal Type 3 effector protein dynamics using reporters. <i>Cellular Microbiology</i> , 2018, 20, e12797.	1.1	12

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55	A highly conserved complete accessory <i>Escherichia coli</i> type III secretion system 2 is widespread in bloodstream isolates of the ST69 lineage. <i>Scientific Reports</i> , 2020, 10, 4135.	1.6	12
56	Intracellular <i>d</i> -Serine Accumulation Promotes Genetic Diversity via Modulated Induction of RecA in Enterohemorrhagic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2016, 198, 3318-3328.	1.0	10
57	High-throughput identification of purification conditions leads to preliminary crystallization conditions for three inner membrane proteins. <i>Molecular Membrane Biology</i> , 2011, 28, 445-453.	2.0	8
58	Genomic plasticity of pathogenic <i>Escherichia coli</i> mediates <i>d</i> -serine tolerance via multiple adaptive mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22484-22493.	3.3	8
59	Plastic Circuits: Regulatory Flexibility in Fine Tuning Pathogen Success. <i>Trends in Microbiology</i> , 2020, 28, 360-371.	3.5	8
60	The force awakens: The dark side of mechanosensing in bacterial pathogens. <i>Cellular Signalling</i> , 2021, 78, 109867.	1.7	7
61	Expression, purification, crystallization and initial X-ray diffraction analysis of thiol peroxidase from <i>Yersinia pseudotuberculosis</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 1606-1609.	0.7	6
62	Two crystal forms of a helix-rich fatty acid- and retinol-binding protein, Na-FAR-1, from the parasitic nematode <i>Necator americanus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 835-838.	0.7	5
63	Widespread Strain-Specific Distinctions in Chromosomal Binding Dynamics of a Highly Conserved <i>Escherichia coli</i> Transcription Factor. <i>MBio</i> , 2020, 11, .	1.8	5
64	Prokaryotic life finds a way: insights from evolutionary experimentation in bacteria. <i>Critical Reviews in Microbiology</i> , 2021, 47, 126-140.	2.7	5
65	Transcriptional and metabolic regulation of EHEC and <i>Citrobacter rodentium</i> pathogenesis. <i>Current Opinion in Microbiology</i> , 2021, 63, 70-75.	2.3	5
66	<i>d</i> -Serine induces distinct transcriptomes in diverse <i>Escherichia coli</i> pathotypes. <i>Microbiology (United Kingdom)</i> , 2021, 195, 107-117.	0.7	5
67	Cultured enterocytes internalise bacteria across their basolateral surface for, pathogen-inhibitable, trafficking to the apical compartment. <i>Scientific Reports</i> , 2015, 5, 17359.	1.6	4
68	When and where? Pathogenic <i>Escherichia coli</i> differentially sense host D-serine using a universal transporter system to monitor their environment. <i>Microbial Cell</i> , 2016, 3, 181-184.	1.4	4
69	FolX from <i>Pseudomonas aeruginosa</i> is octameric in both crystal and solution. <i>FEBS Letters</i> , 2012, 586, 1160-1165.	1.3	3
70	Structure and ligand binding of As-p18, an extracellular fatty acid binding protein from the eggs of a parasitic nematode. <i>Bioscience Reports</i> , 2019, 39, .	1.1	3
71	Useable diffraction data from a multiple microdomain-containing crystal of <i>Ascaris suum</i> As-p18 fatty-acid-binding protein using a microfocuss beamline. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 939-941.	0.7	2
72	High-Throughput Methods for the Identification of Protein Purification Conditions Using a Cleavable Tag System. <i>Methods in Cell Biology</i> , 2012, 112, 93-110.	0.5	2

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73	The structure of an orthorhombic crystal form of a 'forced reduced' thiol peroxidase reveals lattice formation aided by the presence of the affinity tag. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 522-526.	0.7	2
74	Disarming the enemy: targeting bacterial toxins with small molecules. <i>Emerging Topics in Life Sciences</i> , 2017, 1, 31-39.	1.1	2
75	Heterogeneity in populations of enterohaemorrhagic <i>Escherichia coli</i> undergoing d-serine adaptation. <i>Current Genetics</i> , 2021, 67, 221-224.	0.8	2
76	Genome sequence of the aurodox-producing bacterium <i>Streptomyces goldiniensis</i> ATCC 21386. <i>Access Microbiology</i> , 2022, 4, .	0.2	2
77	High-resolution structure of the alcohol dehydrogenase domain of the bifunctional bacterial enzyme AdhE. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2020, 76, 414-421.	0.4	1
78	Crystal structures of WrbA, a spurious target of the salicylidene acylhydrazide inhibitors of type III secretion in Gram-negative pathogens, and verification of improved specificity of next-generation compounds. <i>Microbiology (United Kingdom)</i> , 2022, 168, .	0.7	1
79	High-Throughput Methods for the Detection of Protein Overexpression Using Fluorescence Markers. <i>Methods in Cell Biology</i> , 2013, 113, 189-208.	0.5	0