

# Andrew J Roe

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8951672/andrew-j-roe-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79  
papers

2,898  
citations

32  
h-index

53  
g-index

87  
ext. papers

3,391  
ext. citations

5.7  
avg, IF

4.76  
L-index

#	Paper	IF	Citations
79	Inhibition of <i>Escherichia coli</i> growth by acetic acid: a problem with methionine biosynthesis and homocysteine toxicity. <i>Microbiology (United Kingdom)</i> , <b>2002</b> , 148, 2215-2222	2.9	234
78	Perturbation of anion balance during inhibition of growth of <i>Escherichia coli</i> by weak acids. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 767-72	3.5	213
77	<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> , <b>2005</b> , 151, 2773-2781	2.9	122
76	<i>Salmonella</i> transforms follicle-associated epithelial cells into M cells to promote intestinal invasion. <i>Cell Host and Microbe</i> , <b>2012</b> , 12, 645-56	23.4	119
75	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> , <b>2009</b> , 11, 121-37	3.9	109
74	Antibiotics induce sustained dysregulation of intestinal T cell immunity by perturbing macrophage homeostasis. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	104
73	A comparison of enteropathogenic and enterohaemorrhagic <i>Escherichia coli</i> pathogenesis. <i>FEMS Microbiology Letters</i> , <b>2006</b> , 255, 187-202	2.9	102
72	LOV to BLUF: flavoprotein contributions to the optogenetic toolkit. <i>Molecular Plant</i> , <b>2012</b> , 5, 533-44	14.4	95
71	Analysis of fimbrial gene clusters and their expression in enterohaemorrhagic <i>Escherichia coli</i> O157:H7. <i>Environmental Microbiology</i> , <b>2006</b> , 8, 1033-47	5.2	82
70	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> , <b>2004</b> , 72, 7282-93	3.7	82
69	Identification of bacterial target proteins for the salicylidene acylhydrazide class of virulence-blocking compounds. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 29922-31	5.4	78
68	Mutation of <i>tox</i> B 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> , <b>2004</b> , 72, 5402-11	3.7	77
67	LOV-based reporters for fluorescence imaging. <i>Current Opinion in Chemical Biology</i> , <b>2015</b> , 27, 39-45	9.7	75
66	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> , <b>2003</b> , 71, 5900-9	3.7	75
65	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> , <b>2001</b> , 69, 5107-14	3.7	69
64	Demonstration of regulatory cross-talk between P fimbriae and type 1 fimbriae in uropathogenic <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , <b>2006</b> , 152, 1143-1153	2.9	67
63	Controlling injection: regulation of type III secretion in enterohaemorrhagic <i>Escherichia coli</i> . <i>Trends in Microbiology</i> , <b>2009</b> , 17, 361-70	12.4	65

62	Direct and indirect transcriptional activation of virulence genes by an AraC-like protein, PerA from enteropathogenic Escherichia coli. <i>Molecular Microbiology</i> , <b>2004</b> , 54, 1117-33	4.1	62
61	Analysis of type 1 fimbriae expression in verotoxigenic Escherichia coli: a comparison between serotypes O157 and O26. <i>Microbiology (United Kingdom)</i> , <b>2001</b> , 147, 145-52	2.9	61
60	The EspF effector, a bacterial pathogen's Swiss army knife. <i>Infection and Immunity</i> , <b>2010</b> , 78, 4445-53	3.7	58
59	Hierarchical type III secretion of translocators and effectors from Escherichia coli O157:H7 requires the carboxy terminus of SepL that binds to Tir. <i>Molecular Microbiology</i> , <b>2008</b> , 69, 1499-512	4.1	58
58	Characterization of the effects of salicylidene acylhydrazide compounds on type III secretion in Escherichia coli O157:H7. <i>Infection and Immunity</i> , <b>2009</b> , 77, 4209-20	3.7	57
57	Co-ordinate single-cell expression of LEE4- and LEE5-encoded proteins of Escherichia coli O157:H7. <i>Molecular Microbiology</i> , <b>2004</b> , 54, 337-52	4.1	49
56	Lysogeny with Shiga toxin 2-encoding bacteriophages represses type III secretion in enterohemorrhagic Escherichia coli. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002672	7.6	46
55	From ingestion to colonization: the influence of the host environment on regulation of the LEE encoded type III secretion system in enterohaemorrhagic Escherichia coli. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 568	5.7	45
54	Increased adherence and actin pedestal formation by dam-deficient enterohaemorrhagic Escherichia coli O157:H7. <i>Molecular Microbiology</i> , <b>2007</b> , 63, 1468-81	4.1	45
53	Rapid inactivation of the Escherichia coli Kdp K <sup>+</sup> uptake system by high potassium concentrations. <i>Molecular Microbiology</i> , <b>2000</b> , 35, 1235-43	4.1	43
52	Analysis of the expression, regulation and export of NleA-E in Escherichia coli O157 : H7. <i>Microbiology (United Kingdom)</i> , <b>2007</b> , 153, 1350-1360	2.9	42
51	The metabolic enzyme AdhE controls the virulence of Escherichia coli O157:H7. <i>Molecular Microbiology</i> , <b>2014</b> , 93, 199-211	4.1	40
50	Transcriptional regulators of the GAD acid stress island are carried by effector protein-encoding prophages and indirectly control type III secretion in enterohemorrhagic Escherichia coli O157:H7. <i>Molecular Microbiology</i> , <b>2011</b> , 80, 1349-65	4.1	38
49	Lighting Up Clostridium Difficile: Reporting Gene Expression Using Fluorescent Lov Domains. <i>Scientific Reports</i> , <b>2016</b> , 6, 23463	4.9	36
48	A Highly Conserved Bacterial D-Serine Uptake System Links Host Metabolism and Virulence. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005359	7.6	35
47	The host metabolite D-serine contributes to bacterial niche specificity through gene selection. <i>ISME Journal</i> , <b>2015</b> , 9, 1039-51	11.9	28
46	Development of antivirulence compounds: a biochemical review. <i>Chemical Biology and Drug Design</i> , <b>2015</b> , 85, 43-55	2.9	27
45	Postgenomics Characterization of an Essential Genetic Determinant of Mammary Pathogenic. <i>MBio</i> , <b>2018</b> , 9,	7.8	25

44	Propionic Acid Promotes the Virulent Phenotype of Crohn's Disease-Associated Adherent-Invasive Escherichia coli. <i>Cell Reports</i> , <b>2020</b> , 30, 2297-2305.e5	10.6	24
43	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> , <b>2015</b> , 471, 403-14	3.8	24
42	Host-associated niche metabolism controls enteric infection through fine-tuning the regulation of type 3 secretion. <i>Nature Communications</i> , <b>2018</b> , 9, 4187	17.4	23
41	Express your LOV: an engineered flavoprotein as a reporter for protein expression and purification. <i>PLoS ONE</i> , <b>2012</b> , 7, e52962	3.7	20
40	Generation of gene deletions and gene replacements in Escherichia coli O157:H7 using a temperature sensitive allelic exchange system. <i>Biological Procedures Online</i> , <b>2006</b> , 8, 153-62	8.3	20
39	Visualizing the Translocation and Localization of Bacterial Type III Effector Proteins by Using a Genetically Encoded Reporter System. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 2700-2708	4.8	20
38	Aldehyde-alcohol dehydrogenase forms a high-order spiroosome architecture critical for its activity. <i>Nature Communications</i> , <b>2019</b> , 10, 4527	17.4	17
37	Structural characterisation of Tpx from <i>Yersinia pseudotuberculosis</i> reveals insights into the binding of salicylidene acylhydrazide compounds. <i>PLoS ONE</i> , <b>2012</b> , 7, e32217	3.7	15
36	Characterization of the Mode of Action of Aurodox, a Type III Secretion System Inhibitor from <i>Streptomyces goldiniensis</i> . <i>Infection and Immunity</i> , <b>2019</b> , 87,	3.7	15
35	Novel compounds targeting the enterohemorrhagic Escherichia coli type three secretion system reveal insights into mechanisms of secretion inhibition. <i>Molecular Microbiology</i> , <b>2017</b> , 105, 606-619	4.1	14
34	From screen to target: insights and approaches for the development of anti-virulence compounds. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2014</b> , 4, 139	5.9	12
33	Expression and regulation of the Escherichia coli O157:H7 effector proteins NleH1 and NleH2. <i>PLoS ONE</i> , <b>2012</b> , 7, e33408	3.7	12
32	Enteropathogenic and enterohaemorrhagic Escherichia coli and diarrhoea. <i>Current Opinion in Infectious Diseases</i> , <b>2000</b> , 13, 511-517	5.4	12
31	Control freaks-signals and cues governing the regulation of virulence in attaching and effacing pathogens. <i>Biochemical Society Transactions</i> , <b>2019</b> , 47, 229-238	5.1	10
30	Identification and Characterization of Novel Compounds Blocking Shiga Toxin Expression in O157:H7. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1930	5.7	8
29	Genomic and transcriptomic characterization of <i>Pseudomonas aeruginosa</i> small colony variants derived from a chronic infection model. <i>Microbial Genomics</i> , <b>2019</b> , 5,	4.4	7
28	Aldehyde-alcohol dehydrogenase undergoes structural transition to form extended spiroosomes for substrate channeling. <i>Communications Biology</i> , <b>2020</b> , 3, 298	6.7	6
27	Intracellular d-Serine Accumulation Promotes Genetic Diversity via Modulated Induction of RecA in Enterohemorrhagic Escherichia coli. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 3318-3328	3.5	6

26	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> , <b>2019</b> , 116, 19695-19704 <sup>11.5</sup>	6
25	Plastic Circuits: Regulatory Flexibility in Fine Tuning Pathogen Success. <i>Trends in Microbiology</i> , <b>2020</b> , 28, 360-371	12.4 5
24	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> , <b>2012</b> , 68, 835-8	5
23	High-throughput identification of purification conditions leads to preliminary crystallization conditions for three inner membrane proteins. <i>Molecular Membrane Biology</i> , <b>2011</b> , 28, 445-53	3.4 5
22	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> , <b>2010</b> , 66, 1606-9	5
21	The force awakens: The dark side of mechanosensing in bacterial pathogens. <i>Cellular Signalling</i> , <b>2021</b> , 78, 109867	4.9 5
20	Tracking elusive cargo: Illuminating spatio-temporal Type 3 effector protein dynamics using reporters. <i>Cellular Microbiology</i> , <b>2018</b> , 20, e12797	3.9 5
19	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> , <b>2020</b> , 10, 4135	4.9 4
18	FolX from <i>Pseudomonas aeruginosa</i> is octameric in both crystal and solution. <i>FEBS Letters</i> , <b>2012</b> , 586, 1160-5	3.8 3
17	Structure and ligand binding of As-p18, an extracellular fatty acid binding protein from the eggs of a parasitic nematode. <i>Bioscience Reports</i> , <b>2019</b> , 39,	4.1 3
16	Genomic plasticity of pathogenic mediates d-serine tolerance via multiple adaptive mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 22484-22493 <sup>11.5</sup>	3
15	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> , <b>2012</b> , 68, 522-6	2
14	Cultured enterocytes internalise bacteria across their basolateral surface for, pathogen-inhibitable, trafficking to the apical compartment. <i>Scientific Reports</i> , <b>2015</b> , 5, 17359	4.9 2
13	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> , <b>2012</b> , 68, 939-41	2
12	When and where? Pathogenic differentially sense host D-serine using a universal transporter system to monitor their environment. <i>Microbial Cell</i> , <b>2016</b> , 3, 181-184	3.9 2
11	Propionic acid promotes the virulent phenotype of Crohn's disease-associated adherent-invasive <i>Escherichia coli</i>	2
10	Bacterial outer membrane vesicles provide an alternative pathway for trafficking of type III secreted effectors into epithelial cells	2
9	Transcriptional and metabolic regulation of EHEC and <i>Citrobacter rodentium</i> pathogenesis. <i>Current Opinion in Microbiology</i> , <b>2021</b> , 63, 70-75	7.9 2

8	Disarming the enemy: targeting bacterial toxins with small molecules. <i>Emerging Topics in Life Sciences</i> , <b>2017</b> , 1, 31-39	3.5	1
7	High-Throughput Methods for the Identification of Protein Purification Conditions Using a Cleavable Tag System. <i>Methods in Cell Biology</i> , <b>2012</b> , 112, 93-110	1.8	1
6	d-Serine induces distinct transcriptomes in diverse pathotypes. <i>Microbiology (United Kingdom)</i> , <b>2021</b> , 167,	2.9	1
5	Widespread Strain-Specific Distinctions in Chromosomal Binding Dynamics of a Highly Conserved Escherichia coli Transcription Factor. <i>MBio</i> , <b>2020</b> , 11,	7.8	1
4	Prokaryotic life finds a way: insights from evolutionary experimentation in bacteria. <i>Critical Reviews in Microbiology</i> , <b>2021</b> , 47, 126-140	7.8	1
3	Heterogeneity in populations of enterohaemorrhagic Escherichia coli undergoing D-serine adaptation. <i>Current Genetics</i> , <b>2021</b> , 67, 221-224	2.9	0
2	High-throughput methods for the detection of protein overexpression using fluorescence markers. <i>Methods in Cell Biology</i> , <b>2013</b> , 113, 189-208	1.8	
1	High-resolution structure of the alcohol dehydrogenase domain of the bifunctional bacterial enzyme AdhE. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2020</b> , 76, 414-421	1.1	