

David J Evans

List of Publications by Year in descending order

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82
papers

3,502
citations

117619

34
h-index

168376

53
g-index

83
all docs

83
docs citations

83
times ranked

2915
citing authors

#	ARTICLE	IF	CITATIONS
1	Susceptibility of <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> biofilms towards ciprofloxacin: effect of specific growth rate. <i>Journal of Antimicrobial Chemotherapy</i> , 1991, 27, 177-184.	3.0	214
2	Surface characteristics and adhesion of <i>Escherichia coli</i> and <i>Staphylococcus epidermidis</i> . <i>Journal of Applied Bacteriology</i> , 1991, 71, 72-77.	1.1	133
3	Susceptibility of bacterial biofilms to tobramycin: role of specific growth rate and phase in the division cycle. <i>Journal of Antimicrobial Chemotherapy</i> , 1990, 25, 585-591.	3.0	113
4	The pathogenesis of bacterial keratitis: studies with <i>Pseudomonas aeruginosa</i> . <i>Australasian journal of optometry</i> , The, 2002, 85, 271-278.	1.3	112
5	Twitching Motility Contributes to the Role of Pili in Corneal Infection Caused by <i>Pseudomonas aeruginosa</i> . <i>Infection and Immunity</i> , 2003, 71, 5389-5393.	2.2	101
6	<i>Pseudomonas aeruginosa</i> Invasion and Cytotoxicity Are Independent Events, Both of Which Involve Protein Tyrosine Kinase Activity. <i>Infection and Immunity</i> , 1998, 66, 1453-1459.	2.2	99
7	Surfactant Protein D Is Present in Human Tear Fluid and the Cornea and Inhibits Epithelial Cell Invasion by <i>Pseudomonas aeruginosa</i> . <i>Infection and Immunity</i> , 2005, 73, 2147-2156.	2.2	94
8	Effect of growth-rate on resistance of Gram-negative biofilms to cetrimide. <i>Journal of Antimicrobial Chemotherapy</i> , 1990, 26, 473-478.	3.0	92
9	Possible involvement of the division cycle in dispersal of <i>Escherichia coli</i> from biofilms. <i>Journal of Bacteriology</i> , 1990, 172, 1667-1669.	2.2	90
10	<i>Pseudomonas aeruginosa</i> Induces Membrane Blebs in Epithelial Cells, Which Are Utilized as a Niche for Intracellular Replication and Motility. <i>Infection and Immunity</i> , 2008, 76, 1992-2001.	2.2	89
11	Cytokeratins mediate epithelial innate defense through their antimicrobial properties. <i>Journal of Clinical Investigation</i> , 2012, 122, 3665-3677.	8.2	82
12	Contact lens-related corneal infection: Intrinsic resistance and its compromise. <i>Progress in Retinal and Eye Research</i> , 2020, 76, 100804.	15.5	75
13	Factors Impacting Corneal Epithelial Barrier Function against <i>Pseudomonas aeruginosa</i> Traversal. , 2011, 52, 1368.		73
14	Contribution of ExsA-Regulated Factors to Corneal Infection by Cytotoxic and Invasive <i>Pseudomonas aeruginosa</i> in a Murine Scarification Model. , 2003, 44, 3892.		70
15	Why Does the Healthy Cornea Resist <i>Pseudomonas aeruginosa</i> Infection?. <i>American Journal of Ophthalmology</i> , 2013, 155, 961-970.e2.	3.3	70
16	The Impact of Inoculation Parameters on the Pathogenesis of Contact Lens-Related Infectious Keratitis. , 2010, 51, 3100.		69
17	Actin cytoskeleton disruption by ExoY and its effects on <i>Pseudomonas aeruginosa</i> invasion. <i>FEMS Microbiology Letters</i> , 2005, 250, 71-76.	1.8	68
18	Role of Defensins in Corneal Epithelial Barrier Function against <i>Pseudomonas aeruginosa</i> Traversal. <i>Infection and Immunity</i> , 2011, 79, 595-605.	2.2	67

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19	Pathogenesis of Contact Lens-Associated Microbial Keratitis. <i>Optometry and Vision Science</i> , 2010, 87, 225-232.	1.2	66
20	Clearance of <i>Pseudomonas aeruginosa</i> from a Healthy Ocular Surface Involves Surfactant Protein D and Is Compromised by Bacterial Elastase in a Murine Null-Infection Model. <i>Infection and Immunity</i> , 2009, 77, 2392-2398.	2.2	65
21	Formation and dispersal of bacterial biofilms in vivo and in situ. <i>Journal of Applied Bacteriology</i> , 1993, 74, 67S-78S.	1.1	64
22	Modification of <i>Pseudomonas aeruginosa</i> Interactions with Corneal Epithelial Cells by Human Tear Fluid. <i>Infection and Immunity</i> , 2003, 71, 3866-3874.	2.2	62
23	The ADP-Ribosylation Domain of <i>Pseudomonas aeruginosa</i> ExoS Is Required for Membrane Bleb Niche Formation and Bacterial Survival within Epithelial Cells. <i>Infection and Immunity</i> , 2010, 78, 4500-4510.	2.2	57
24	Human Tear Fluid Protects against <i>Pseudomonas aeruginosa</i> Keratitis in a Murine Experimental Model. <i>Infection and Immunity</i> , 2007, 75, 2325-2332.	2.2	56
25	Mutation of <i>retS</i> , encoding a putative hybrid two-component regulatory protein in <i>Pseudomonas aeruginosa</i> , attenuates multiple virulence mechanisms. <i>Microbes and Infection</i> , 2005, 7, 1305-1316.	1.9	55
26	Role of <i>Pseudomonas aeruginosa</i> ExsA in Penetration through Corneal Epithelium in a Novel In Vivo Model. , 2003, 44, 5220.		52
27	Airway epithelial tight junctions and binding and cytotoxicity of <i>Pseudomonas aeruginosa</i> . <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999, 277, L204-L217.	2.9	51
28	Role of the Corneal Epithelial Basement Membrane in Ocular Defense against <i>Pseudomonas aeruginosa</i> . <i>Infection and Immunity</i> , 2009, 77, 3264-3271.	2.2	49
29	Progress Examination for Assessing Students' Readiness for Advanced Pharmacy Practice Experiences. <i>American Journal of Pharmaceutical Education</i> , 2009, 73, 109.	2.1	49
30	<i>Pseudomonas aeruginosa</i> Utilizes the Type III Secreted Toxin ExoS to Avoid Acidified Compartments within Epithelial Cells. <i>PLoS ONE</i> , 2013, 8, e73111.	2.5	49
31	The Role of Twitching Motility in <i>Pseudomonas aeruginosa</i> Exit from and Translocation of Corneal Epithelial Cells. , 2009, 50, 2237.		47
32	The Impact of ExoS on <i>Pseudomonas aeruginosa</i> Internalization by Epithelial Cells Is Independent of <i>fleQ</i> and Correlates with Bistability of Type Three Secretion System Gene Expression. <i>MBio</i> , 2018, 9, .	4.1	46
33	MicroRNA-762 Is Upregulated in Human Corneal Epithelial Cells in Response to Tear Fluid and <i>Pseudomonas aeruginosa</i> Antigens and Negatively Regulates the Expression of Host Defense Genes Encoding RNase7 and ST2. <i>PLoS ONE</i> , 2013, 8, e57850.	2.5	45
34	The <i>rfb</i> locus from <i>Pseudomonas aeruginosa</i> strain PA103 promotes the expression of O antigen by both LPS-rough and LPS-smooth isolates from cystic fibrosis patients. <i>Molecular Microbiology</i> , 1994, 13, 427-434.	2.5	41
35	Exposure of human corneal epithelial cells to contact lenses in vitro suppresses the upregulation of human β -defensin-2 in response to antigens of <i>Pseudomonas aeruginosa</i> . <i>Experimental Eye Research</i> , 2007, 85, 142-153.	2.6	41
36	Pathogenesis of Contact Lens-Associated Microbial Keratitis. <i>Optometry and Vision Science</i> , 2010, 87, 613-614.	1.2	41

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37	<i>Pseudomonas aeruginosa</i> Outer Membrane Vesicles Triggered by Human Mucosal Fluid and Lysozyme Can Prime Host Tissue Surfaces for Bacterial Adhesion. <i>Frontiers in Microbiology</i> , 2016, 7, 871.	3.5	40
38	Dynamics of Flagellum- and Pilus-Mediated Association of <i>Pseudomonas aeruginosa</i> with Contact Lens Surfaces. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3644-3652.	3.1	38
39	3D Quantitative Imaging of Unprocessed Live Tissue Reveals Epithelial Defense against Bacterial Adhesion and Subsequent Traversal Requires MyD88. <i>PLoS ONE</i> , 2011, 6, e24008.	2.5	37
40	Modulation of epithelial immunity by mucosal fluid. <i>Scientific Reports</i> , 2011, 1, 8.	3.3	35
41	Type III Secretion-Dependent Modulation of Innate Immunity as One of Multiple Factors Regulated by <i>Pseudomonas aeruginosa</i> RetS. <i>Infection and Immunity</i> , 2006, 74, 3880-3889.	2.2	34
42	Mutation of the phospholipase catalytic domain of the <i>Pseudomonas aeruginosa</i> cytotoxin ExoU abolishes colonization promoting activity and reduces corneal disease severity. <i>Experimental Eye Research</i> , 2007, 85, 799-805.	2.6	32
43	Adenylate cyclase activity of <i>Pseudomonas aeruginosa</i> ExoY can mediate bleb-niche formation in epithelial cells and contributes to virulence. <i>Microbial Pathogenesis</i> , 2011, 51, 305-312.	2.9	32
44	<i>Pseudomonas aeruginosa</i> -Induced Bleb-Niche Formation in Epithelial Cells Is Independent of Actinomyosin Contraction and Enhanced by Loss of Cystic Fibrosis Transmembrane-Conductance Regulator Osmoregulatory Function. <i>MBio</i> , 2015, 6, e02533.	4.1	29
45	Cytotoxic clinical isolates of <i>Pseudomonas aeruginosa</i> identified during the Steroids for Corneal Ulcers Trial show elevated resistance to fluoroquinolones. <i>BMC Ophthalmology</i> , 2014, 14, 54.	1.4	28
46	<i>Pseudomonas aeruginosa</i> internalization by corneal epithelial cells involves MEK and ERK signal transduction proteins. <i>FEMS Microbiology Letters</i> , 2002, 213, 73-79.	1.8	27
47	Type IV Pili Can Mediate Bacterial Motility within Epithelial Cells. <i>MBio</i> , 2019, 10, .	4.1	27
48	Mutation of <i>csk</i> , encoding the C-terminal Src kinase, reduces <i>Pseudomonas aeruginosa</i> internalization by mammalian cells and enhances bacterial cytotoxicity. <i>Microbial Pathogenesis</i> , 2002, 33, 135-143.	2.9	26
49	The Importance of the <i>Pseudomonas aeruginosa</i> Type III Secretion System in Epithelium Traversal Depends upon Conditions of Host Susceptibility. <i>Infection and Immunity</i> , 2015, 83, 1629-1640.	2.2	26
50	Mucosal fluid glycoprotein DMBT1 suppresses twitching motility and virulence of the opportunistic pathogen <i>Pseudomonas aeruginosa</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006392.	4.7	26
51	Factors Affecting <i>Staphylococcus epidermidis</i> Adhesion to Contact Lenses. <i>Optometry and Vision Science</i> , 1996, 73, 590-594.	1.2	25
52	Life at the Front: Dissecting Bacterial-Host Interactions at the Ocular Surface. <i>Ocular Surface</i> , 2007, 5, 213-227.	4.4	24
53	Expression of surfactant protein D in human corneal epithelial cells is upregulated by <i>Pseudomonas aeruginosa</i> . <i>FEMS Immunology and Medical Microbiology</i> , 2008, 54, 177-184.	2.7	23
54	Contact Lens Infections: Can They Ever Be Eradicated?. <i>Eye and Contact Lens</i> , 2003, 29, S67-S71.	1.6	22

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55	IL-1R and MyD88 Contribute to the Absence of a Bacterial Microbiome on the Healthy Murine Cornea. <i>Frontiers in Microbiology</i> , 2018, 9, 1117.	3.5	22
56	A novel murine model for contact lens wear reveals clandestine IL-1R dependent corneal parainflammation and susceptibility to microbial keratitis upon inoculation with <i>Pseudomonas aeruginosa</i> . <i>Ocular Surface</i> , 2019, 17, 119-133.	4.4	22
57	Traversal of Multilayered Corneal Epithelia by Cytotoxic <i>Pseudomonas aeruginosa</i> Requires the Phospholipase Domain of ExoU. , 2012, 53, 448.		21
58	Microbial Keratitis. <i>Eye and Contact Lens</i> , 2013, 39, 73-78.	1.6	20
59	Acceptance of the Use of HIV Surveillance Data for Care Engagement. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2015, 69, S31-S36.	2.1	20
60	Contributions of MyD88-dependent receptors and CD11c-positive cells to corneal epithelial barrier function against <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2017, 7, 13829.	3.3	20
61	Identifying Perceptions of Professionalism in Pharmacy Using a Four-Frame Leadership Model. <i>American Journal of Pharmaceutical Education</i> , 2008, 72, 90.	2.1	19
62	Toxic anterior segment syndrome caused by autoclave reservoir wall biofilms and their residual toxins. <i>Journal of Cataract and Refractive Surgery</i> , 2016, 42, 1602-1614.	1.5	19
63	<i>Pseudomonas aeruginosa</i> Strains with Lipopolysaccharide Defects Exhibit Reduced Intracellular Viability after Invasion of Corneal Epithelial Cells. <i>Experimental Eye Research</i> , 2002, 75, 635-643.	2.6	18
64	The Tear Film and Defense Against Infection. <i>Advances in Experimental Medicine and Biology</i> , 2002, 506, 523-530.	1.6	18
65	Translocon-independent intracellular replication by <i>Pseudomonas aeruginosa</i> requires the ADP-ribosylation domain of ExoS. <i>Microbes and Infection</i> , 2012, 14, 1366-1373.	1.9	14
66	Exotoxin S secreted by internalized <i>Pseudomonas aeruginosa</i> delays lytic host cell death. <i>PLoS Pathogens</i> , 2022, 18, e1010306.	4.7	14
67	Surfactant Protein D Contributes to Ocular Defense against <i>Pseudomonas aeruginosa</i> in a Murine Model of Dry Eye Disease. <i>PLoS ONE</i> , 2013, 8, e65797.	2.5	13
68	<i>Pseudomonas aeruginosa</i> Survival at Posterior Contact Lens Surfaces after Daily Wear. <i>Optometry and Vision Science</i> , 2015, 92, 659-664.	1.2	13
69	Corneal surface glycosylation is modulated by IL-1R and <i>Pseudomonas aeruginosa</i> challenge but is insufficient for inhibiting bacterial binding. <i>FASEB Journal</i> , 2017, 31, 2393-2404.	0.5	11
70	Human Tear Fluid Reduces Culturability of Contact Lens-Associated <i>Pseudomonas aeruginosa</i> Biofilms but Induces Expression of the Virulence-Associated Type III Secretion System. <i>Ocular Surface</i> , 2017, 15, 88-96.	4.4	9
71	DMBT1 inhibition of <i>Pseudomonas aeruginosa</i> twitching motility involves its N-glycosylation and cannot be conferred by the Scavenger Receptor Cysteine-Rich bacteria-binding peptide domain. <i>Scientific Reports</i> , 2019, 9, 13146.	3.3	8
72	Resistance of the murine cornea to bacterial colonization during experimental dry eye. <i>PLoS ONE</i> , 2020, 15, e0234013.	2.5	8

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73	Impact of topical corticosteroid pretreatment on susceptibility of the injured murine cornea to <i>Pseudomonas aeruginosa</i> colonization and infection. <i>Experimental Eye Research</i> , 2019, 179, 1-7.	2.6	7
74	Dynamics of <i>Pseudomonas aeruginosa</i> association with anionic hydrogel surfaces in the presence of aqueous divalent-cation salts. <i>Journal of Colloid and Interface Science</i> , 2011, 362, 58-66.	9.4	6
75	Epithelial cell lysates induce ExoS expression and secretion by <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	5
76	Nerve-associated transient receptor potential ion channels can contribute to intrinsic resistance to bacterial adhesion in vivo. <i>FASEB Journal</i> , 2021, 35, e21899.	0.5	5
77	Topical antibiotics reduce CD11c+ cell numbers in the healthy murine cornea and modulate their response to contact lens wear. <i>Scientific Reports</i> , 2022, 12, .	3.3	3
78	Diffuse lamellar keratitis associated with tabletop autoclave biofilms: case series and review. <i>Journal of Cataract and Refractive Surgery</i> , 2020, 46, 340-349.	1.5	2
79	Human tear fluid modulates the <i>Pseudomonas aeruginosa</i> transcriptome to alter antibiotic susceptibility. <i>Ocular Surface</i> , 2021, 22, 94-102.	4.4	1
80	<i>Pseudomonas aeruginosa</i> internalization by corneal epithelial cells involves MEK and ERK signal transduction proteins. <i>FEMS Microbiology Letters</i> , 2002, 213, 73-79.	1.8	1
81	Quantification of Bacterial Twitching Motility in Dense Colonies Using Transmitted Light Microscopy and Computational Image Analysis. <i>Bio-protocol</i> , 2018, 8, .	0.4	1
82	Quantification of relative neurite tortuosity using Fourier transforms. <i>Journal of Neuroscience Methods</i> , 2021, 361, 109266.	2.5	0