

Julia R Davies

List of Publications by Year in descending order

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81
papers

3,249
citations

196777
29
h-index

182931
54
g-index

81
all docs

81
docs citations

81
times ranked

3671
citing authors

#	ARTICLE	IF	CITATIONS
1	MUC5B is a major gel-forming, oligomeric mucin from human salivary gland, respiratory tract and endocervix: identification of glycoforms and C-terminal cleavage. <i>Biochemical Journal</i> , 1998, 334, 685-693.	1.7	301
2	Different mucins are produced by the surface epithelium and the submucosa in human trachea: identification of MUC5AC as a major mucin from the goblet cells. <i>Biochemical Journal</i> , 1996, 318, 319-324.	1.7	278
3	MUC5AC, but not MUC2, is a prominent mucin in respiratory secretions. <i>Glycoconjugate Journal</i> , 1996, 13, 839-847.	1.4	220
4	COVID-19: The immediate response of european academic dental institutions and future implications for dental education. <i>European Journal of Dental Education</i> , 2020, 24, 811-814.	1.0	157
5	Studies on the "Insoluble" Glycoprotein Complex from Human Colon. <i>Journal of Biological Chemistry</i> , 1999, 274, 15828-15836.	1.6	135
6	Gastric MUC5AC and MUC6 are large oligomeric mucins that differ in size, glycosylation and tissue distribution. <i>Biochemical Journal</i> , 2002, 364, 191-200.	1.7	118
7	Identification of MUC5B, MUC5AC and small amounts of MUC2 mucins in cystic fibrosis airway secretions. <i>Biochemical Journal</i> , 1999, 344, 321-330.	1.7	104
8	Macromolecular organization of saliva: identification of "insoluble" MUC5B assemblies and non-mucin proteins in the gel phase. <i>Biochemical Journal</i> , 2000, 351, 421-428.	1.7	82
9	MUC16 is produced in tracheal surface epithelium and submucosal glands and is present in secretions from normal human airway and cultured bronchial epithelial cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 1943-1954.	1.2	78
10	Identification of bacterial biofilm and the <i>Staphylococcus aureus</i> derived protease, staphopain, on the skin surface of patients with atopic dermatitis. <i>Scientific Reports</i> , 2017, 7, 8689.	1.6	70
11	Mucins in airway secretions from healthy and chronic bronchitic subjects. <i>Biochemical Journal</i> , 1996, 313, 431-439.	1.7	64
12	"Soluble" and "insoluble" mucins " Identification of distinct populations. <i>Biochemical Society Transactions</i> , 1995, 23, 845-851.	1.6	63
13	<i>In situ</i> analysis of multispecies biofilm formation on customized titanium surfaces. <i>Molecular Oral Microbiology</i> , 2011, 26, 241-252.	1.3	60
14	Mucus glycoproteins from pig gastric mucosa: identification of different mucin populations from the surface epithelium. <i>Biochemical Journal</i> , 1997, 326, 903-910.	1.7	57
15	Binding of <i>Haemophilus influenzae</i> to purified mucins from the human respiratory tract. <i>Infection and Immunity</i> , 1995, 63, 2485-2492.	1.0	57
16	Effect of nanoporous TiO ₂ coating and anodized Ca ²⁺ modification of titanium surfaces on early microbial biofilm formation. <i>BMC Oral Health</i> , 2011, 11, 8.	0.8	55
17	Dental pulp capping: effect of Emdogain Gel on experimentally exposed human pulps. <i>International Endodontic Journal</i> , 2005, 38, 186-194.	2.3	52
18	Glycoconjugates facing the outside world. <i>Biochemical Society Transactions</i> , 1997, 25, 214-219.	1.6	51

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19	Identification of a nonmucin glycoprotein (gp-340) from a purified respiratory mucin preparation: evidence for an association involving the MUC5B mucin. <i>Glycobiology</i> , 2001, 11, 969-977.	1.3	51
20	Role for the A Domain of Unprocessed Accumulation-Associated Protein (Aap) in the Attachment Phase of the <i>Staphylococcus epidermidis</i> Biofilm Phenotype. <i>Journal of Bacteriology</i> , 2014, 196, 4268-4275.	1.0	49
21	Respiratory Tract Mucins: Structure and Expression Patterns. <i>Novartis Foundation Symposium</i> , 2008, , 76-93.	1.2	48
22	Distribution of iodine 125 ^{â€} labeled $\hat{\pm}$ 1-microglobulin in rats after intravenous injection. <i>Translational Research</i> , 2001, 137, 165-175.	2.4	46
23	Identification of MUC5B, MUC5AC and small amounts of MUC2 mucins in cystic fibrosis airway secretions. <i>Biochemical Journal</i> , 1999, 344, 321.	1.7	45
24	Release of Mucus Glycoconjugates by <i>Pseudomonas aeruginosa</i> Rhamnolipids into Feline Trachea <i>In Vivo</i> and Human Bronchus <i>In Vitro</i> . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1992, 6, 116-122.	1.4	42
25	Aspects on the Interaction of <i>Streptococcus pneumoniae</i> and <i>Haemophilus influenzae</i> with Human Respiratory Tract Mucosa. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1996, 154, S187-S191.	2.5	41
26	Adherence of human oral keratinocytes and gingival fibroblasts to nano-structured titanium surfaces. <i>BMC Oral Health</i> , 2014, 14, 75.	0.8	41
27	Identification of novel LPXTG-linked surface proteins from <i>Streptococcus gordonii</i> . <i>Microbiology (United Kingdom)</i> , 2009, 155, 1977-1988.	0.7	40
28	The Graduating European Dentist: Contemporaneous Methods of Teaching, Learning and Assessment in Dental Undergraduate Education. <i>European Journal of Dental Education</i> , 2017, 21, 28-35.	1.0	38
29	Macromolecular organization of saliva: identification of ^{â€} insoluble ^{â€} MUC5B assemblies and non-mucin proteins in the gel phase. <i>Biochemical Journal</i> , 2000, 351, 421.	1.7	37
30	Effects of saliva or serum coating on adherence of <i>Streptococcus oralis</i> strains to titanium. <i>Microbiology (United Kingdom)</i> , 2012, 158, 390-397.	0.7	36
31	Acid tolerance properties of dental biofilms in vivo. <i>BMC Microbiology</i> , 2017, 17, 165.	1.3	29
32	PFG-NMR diffusometry: A tool for investigating the structure and dynamics of noncommercial purified pig gastric mucin in a wide range of concentrations. <i>Biopolymers</i> , 2007, 86, 165-175.	1.2	28
33	Differential effects of <i>Pseudomonas aeruginosa</i> on biofilm formation by different strains of <i>Staphylococcus epidermidis</i> . <i>FEMS Immunology and Medical Microbiology</i> , 2010, 59, 439-446.	2.7	28
34	Effects of clinical isolates of <i>Pseudomonas aeruginosa</i> on <i>Staphylococcus epidermidis</i> biofilm formation. <i>FEMS Immunology and Medical Microbiology</i> , 2010, 59, 504-512.	2.7	28
35	The Graduating European Dentist ^{â€} Domain ^{â€} Ill ^{â€} : Patient ^{â€} Centred Care. <i>European Journal of Dental Education</i> , 2017, 21, 18-24.	1.0	27
36	Acid tolerance in early colonizers of oral biofilms. <i>BMC Microbiology</i> , 2021, 21, 45.	1.3	26

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37	Crystalline anatase-rich titanium can reduce adherence of oral streptococci. <i>Biofouling</i> , 2014, 30, 751-759.	0.8	25
38	Strains of <i>Enterococcus faecalis</i> differ in their ability to coexist in biofilms with other root canal bacteria. <i>International Endodontic Journal</i> , 2015, 48, 916-925.	2.3	25
39	<i>Parvimonas micra</i> stimulates expression of gingipains from <i>Porphyromonas gingivalis</i> in multi-species communities. <i>Anaerobe</i> , 2019, 55, 54-60.	1.0	24
40	The effect of tobacco smoke upon airway secretion in the cat. <i>Clinical Science</i> , 1986, 71, 179-187.	1.8	23
41	Mucus glycoproteins from pig gastric mucosa: different mucins are produced by the surface epithelium and the glands. <i>Biochemical Journal</i> , 1998, 331, 687-694.	1.7	23
42	Gel-Forming and Cell-Associated Mucins: Preparation for Structural and Functional Studies. <i>Methods in Molecular Biology</i> , 2012, 842, 27-47.	0.4	23
43	Bacteria on Catheters in Patients Undergoing Peritoneal Dialysis. <i>Peritoneal Dialysis International</i> , 2013, 33, 51-59.	1.1	23
44	Bacterial profiles and proteolytic activity in peri-implantitis versus healthy sites. <i>Anaerobe</i> , 2015, 35, 28-34.	1.0	23
45	A randomized, controlled, clinical study on a new titanium oxide abutment surface for improved healing and soft tissue health. <i>Clinical Implant Dentistry and Related Research</i> , 2019, 21, 55-68.	1.6	22
46	Dentine sialoprotein and Collagen I expression after experimental pulp capping in humans using Endogain®Gel. <i>International Endodontic Journal</i> , 2011, 44, 259-267.	2.3	21
47	Salivary proteins promote proteolytic activity in <i>Streptococcus mitis</i> biovar 2 and <i>Streptococcus mutans</i> . <i>Molecular Oral Microbiology</i> , 2012, 27, 362-372.	1.3	21
48	Modified lipoproteins in periodontitis: a link to cardiovascular disease?. <i>Bioscience Reports</i> , 2019, 39, .	1.1	21
49	The Graduating European Dentist – Domain I: Professionalism. <i>European Journal of Dental Education</i> , 2017, 21, 11-13.	1.0	19
50	The uptake of radiolabelled precursors of mucus glycoconjugates by secretory tissues in the feline trachea. <i>Journal of Physiology</i> , 1990, 420, 19-30.	1.3	18
51	Surface-associated MUC5B mucins promote protease activity in <i>Lactobacillus fermentum</i> biofilms. <i>BMC Oral Health</i> , 2013, 13, 43.	0.8	18
52	Salivary pellicles on titanium and their effect on metabolic activity in <i>Streptococcus oralis</i> . <i>BMC Oral Health</i> , 2013, 13, 32.	0.8	17
53	Biofilm formation by <i>Staphylococcus epidermidis</i> on peritoneal dialysis catheters and the effects of extracellular products from <i>Pseudomonas aeruginosa</i> . <i>Pathogens and Disease</i> , 2013, 67, 192-198.	0.8	17
54	Respiratory tract mucins: structure and expression patterns. <i>Novartis Foundation Symposium</i> , 2002, 248, 76-88; discussion 88-93, 277-82.	1.2	17

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55	Effect of Fluoride and Chlorhexidine Digluconate Mouthrinses on Plaque Biofilms. <i>Open Dentistry Journal</i> , 2015, 9, 106-111.	0.2	14
56	Biosynthesis of mucins in bovine trachea: identification of the major radiolabelled species. <i>Biochemical Journal</i> , 1998, 333, 449-456.	1.7	13
57	<i>Streptococcus gordonii</i> Type I Lipoteichoic Acid Contributes to Surface Protein Biogenesis. <i>MSphere</i> , 2019, 4, .	1.3	13
58	Human gastric mucins - a major population identified as MUC5. <i>Biochemical Society Transactions</i> , 1995, 23, 533S-533S.	1.6	12
59	Mucin biosynthesis and secretion in tracheal epithelial cells in primary culture. <i>Biochemical Journal</i> , 2001, 353, 23-32.	1.7	12
60	Titanium granules pre-treated with hydrogen peroxide inhibit growth of bacteria associated with post-operative infections in spine surgery. <i>European Spine Journal</i> , 2018, 27, 2463-2468.	1.0	12
61	pH-dependent binding of <i>Helicobacter pylori</i> to pig gastric mucins. <i>FEMS Immunology and Medical Microbiology</i> , 1999, 24, 175-181.	2.7	11
62	Structural and Functional Analysis of the N-terminal Domain of the <i>Streptococcus gordonii</i> Adhesin Sgo0707. <i>PLoS ONE</i> , 2013, 8, e63768.	1.1	11
63	The effect of delmopinol and fluoride on acid adaptation and acid production in dental plaque biofilms. <i>Archives of Oral Biology</i> , 2014, 59, 318-323.	0.8	11
64	Bactericidal effect of photocatalytically active nanostructured TiO ₂ surfaces on biofilms of the early oral colonizer, <i>Streptococcus oralis</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2321-2328.	2.1	10
65	Oral Health Education: A scoping review on the reporting of oral health professional education in Europe. <i>European Journal of Dental Education</i> , 2021, 25, 56-77.	1.0	10
66	Mucus glycoproteins in bovine trachea: identification of the major mucin populations in respiratory secretions and investigation of their tissue origins. <i>Biochemical Journal</i> , 1997, 321, 117-124.	1.7	9
67	Effects of bacterial products on the activity of odontoblast-like cells and their formation of type 1 collagen. <i>International Endodontic Journal</i> , 2014, 47, 397-404.	2.3	6
68	Modulation of the nanometer pore size improves magnesium adsorption into mesoporous titania coatings and promotes bone morphogenic protein 4 expression in adhering osteoblasts. <i>Dental Materials</i> , 2016, 32, e148-e158.	1.6	6
69	Bacterial colonization of a power-driven water flosser during regular use. A proof-of-principle study. <i>Clinical and Experimental Dental Research</i> , 2021, 7, 656-663.	0.8	5
70	ARTICULATE: A European glossary of terms used in oral health professional education. <i>European Journal of Dental Education</i> , 2023, 27, 209-222.	1.0	5
71	Polymicrobial synergy stimulates <i>Porphyromonas gingivalis</i> survival and gingipain expression in a multi-species subgingival community. <i>BMC Oral Health</i> , 2021, 21, 639.	0.8	5
72	Human tracheal mucins is MUC5 more prominent in the epithelial surface than in the submucosa?. <i>Biochemical Society Transactions</i> , 1995, 23, 534S-534S.	1.6	4

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73	Exogenous LL-37 but not homogenates of desquamated oral epithelial cells shows activity against <i>Streptococcus mutans</i> . <i>Acta Odontologica Scandinavica</i> , 2021, 79, 466-472.	0.9	4
74	Structure and Biochemistry of Human Respiratory Mucins. , 1997, , 19-39.		4
75	Mucin biosynthesis and secretion in tracheal epithelial cells in primary culture. <i>Biochemical Journal</i> , 2000, 353, 23.	1.7	3
76	<sc>Oâ€Healthâ€Edu</sc>: A vision for oral health professional education in Europe. <i>European Journal of Dental Education</i> , 2023, 27, 382-387.	1.0	3
77	Characterization of core polypeptides of human bronchial mucins. <i>Biochemical Society Transactions</i> , 1986, 14, 114-115.	1.6	2
78	<i>Streptococcus gordonii</i> Poised for Glycan Feeding through a MUC5B-Discriminating, Lipoteichoic Acid-Mediated Outside-In Signaling Circuit. <i>Journal of Bacteriology</i> , 0, , .	1.0	2
79	S20.10 Identification of three different populations of mucus glycoproteins from pig gastric mucosa. <i>Glycoconjugate Journal</i> , 1993, 10, 344-345.	1.4	0
80	S20.20 Bovine trachea as a model for mucin secretion in the airways. <i>Glycoconjugate Journal</i> , 1993, 10, 348-348.	1.4	0
81	Modeling the development of proteolytic phenotypes in multi-species oral biofilms. <i>Journal of Oral Microbiology</i> , 2017, 9, 1325274.	1.2	0