Julia R Davies

List of Publications by Year
in descending order

81 papers	3,249 citations	172457 29 h-index	161849 54 g-index
81 all docs	81 docs citations	81 times ranked	3428 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. Biochemical Journal, 1998, 334, 685-693.	3.7	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. Biochemical Journal, 1996, 318, 319-324.	3.7	278
3	MUC5AC, but not MUC2, is a prominent mucin in respiratory secretions. Glycoconjugate Journal, 1996, 13, 839-847.	2.7	220
4	COVIDâ€19: The immediate response of european academic dental institutions and future implications for dental education. European Journal of Dental Education, 2020, 24, 811-814.	2.0	157
5	Studies on the â€œInsolubleâ€•Glycoprotein Complex from Human Colon. Journal of Biological Chemistry, 1999, 274, 15828-15836.	3.4	135
6	Gastric MUC5AC and MUC6 are large oligomeric mucins that differ in size, glycosylation and tissue distribution. Biochemical Journal, 2002, 364, 191-200.	3.7	118
7	Identification of MUC5B, MUC5AC and small amounts of MUC2 mucins in cystic fibrosis airway secretions. Biochemical Journal, 1999, 344, 321-330.	3.7	104
8	Macromolecular organization of saliva: identification of â€˜insolubleâ€™ MUC5B assemblies and non-mucin proteins in the gel phase. Biochemical Journal, 2000, 351, 421-428.	3.7	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. International Journal of Biochemistry and Cell Biology, 2007, 39, 1943-1954.	2.8	78
10	Identification of bacterial biofilm and the Staphylococcus aureus derived protease, staphopain, on the skin surface of patients with atopic dermatitis. Scientific Reports, 2017, 7, 8689.	3.3	70
11	Mucins in airway secretions from healthy and chronic bronchitic subjects. Biochemical Journal, 1996, 313, 431-439.	3.7	64
12	â€˜Soluble â€™ and â€˜insoluble â€™ mucins â€” Identification of distinct populations. Biochemical Society Transactions, 1995, 23, 845-851.	3.4	63
13	In situ analysis of multispecies biofilm formation on customized titanium surfaces. Molecular Oral Microbiology, 2011, 26, 241-252.	2.7	60
14	Mucus glycoproteins from pig gastric mucosa: identification of different mucin populations from the surface epithelium. Biochemical Journal, 1997, 326, 903-910.	3.7	57
15	Binding of Haemophilus influenzae to purified mucins from the human respiratory tract. Infection and Immunity, 1995, 63, 2485-2492.	2.2	57
16	Effect of nanoporous TiO2 coating and anodized Ca2+ modification of titanium surfaces on early microbial biofilm formation. BMC Oral Health, 2011, 11, 8.	2.3	55
17	Dental pulp capping: effect of Emdogain Gel on experimentally exposed human pulps. International Endodontic Journal, 2005, 38, 186-194.	5.0	52
18	Glycoconjugates facing the outside world. Biochemical Society Transactions, 1997, 25, 214-219.	3.4	51

#	Article	IF	Citations
19	Identification of a nonmucin glycoprotein (gp-340) from a purified respiratory mucin preparation: evidence for an association involving the MUC5B mucin. Glycobiology, 2001, 11, 969-977.	2.5	51
20	Role for the A Domain of Unprocessed Accumulation-Associated Protein (Aap) in the Attachment Phase of the Staphylococcus epidermidis Biofilm Phenotype. Journal of Bacteriology, 2014, 196, 4268-4275.	2.2	49
21	Respiratory Tract Mucins: Structure and Expression Patterns. Novartis Foundation Symposium, 2008, , 76-93.	1.1	48
22	Distribution of iodine 125â€“labeled Î±1-microglobulin in rats after intravenous injection. Translational Research, 2001, 137, 165-175.	2.3	46
23	Identification of MUC5B, MUC5AC and small amounts of MUC2 mucins in cystic fibrosis airway secretions. Biochemical Journal, 1999, 344, 321.	3.7	45
24	Release of Mucus Glycoconjugates by Pseudomonas aeruginosa Rhamnolipids into Feline Trachea In Vivo and Human Bronchus In Vitro. American Journal of Respiratory Cell and Molecular Biology, 1992, 6, 116-122.	2.9	42
25	Aspects on the Interaction ofStreptococcus pneumoniaeandHaemophilus influenzaewith Human Respiratory Tract Mucosa. American Journal of Respiratory and Critical Care Medicine, 1996, 154, S187-S191.	5.6	41
26	Adherence of human oral keratinocytes and gingival fibroblasts to nano-structured titanium surfaces. BMC Oral Health, 2014, 14, 75.	2.3	41
27	Identification of novel LPXTG-linked surface proteins from Streptococcus gordonii. Microbiology (United Kingdom), 2009, 155, 1977-1988.	1.8	40
28	The Graduating European Dentist: Contemporaneous Methods of Teaching, Learning and Assessment in Dental Undergraduate Education. European Journal of Dental Education, 2017, 21, 28-35.	2.0	38
29	Macromolecular organization of saliva: identification of â€˜insolubleâ€™ MUC5B assemblies and non-mucin proteins in the gel phase. Biochemical Journal, 2000, 351, 421.	3.7	37
30	Effects of saliva or serum coating on adherence of Streptococcus oralis strains to titanium. Microbiology (United Kingdom), 2012, 158, 390-397.	1.8	36
31	Acid tolerance properties of dental biofilms in vivo. BMC Microbiology, 2017, 17, 165.	3.3	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. Biopolymers, 2007, 86, 165-175.	2.4	28
33	Differential effects ofPseudomonas aeruginosaon biofilm formation by different strains ofStaphylococcus epidermidis. FEMS Immunology and Medical Microbiology, 2010, 59, 439-446.	2.7	28
34	Effects of clinical isolates ofPseudomonas aeruginosaonStaphylococcus epidermidisbiofilm formation. FEMS Immunology and Medical Microbiology, 2010, 59, 504-512.	2.7	28
35	The Graduating European Dentistâ€”Domain <scp>III</scp>: Patientâ€Centred Care. European Journal of Dental Education, 2017, 21, 18-24.	2.0	27
36	Acid tolerance in early colonizers of oral biofilms. BMC Microbiology, 2021, 21, 45.	3.3	26

#	Article	IF	Citations
37	Crystalline anatase-rich titanium can reduce adherence of oral streptococci. Biofouling, 2014, 30, 751-759.	2.2	25
38	Strains of Enterococcus faecalis differ in their ability to coexist in biofilms with other root canal bacteria. International Endodontic Journal, 2015, 48, 916-925.	5.0	25
39	Parvimonas micra stimulates expression of gingipains from Porphyromonas gingivalis in multi-species communities. Anaerobe, 2019, 55, 54-60.	2.1	24
40	The effect of tobacco smoke upon airway secretion in the cat. Clinical Science, 1986, 71, 179-187.	4.3	23
41	Mucus glycoproteins from pig gastric mucosa: different mucins are produced by the surface epithelium and the glands. Biochemical Journal, 1998, 331, 687-694.	3.7	23
42	Gel-Forming and Cell-Associated Mucins: Preparation for Structural and Functional Studies. Methods in Molecular Biology, 2012, 842, 27-47.	0.9	23
43	Bacteria on Catheters in Patients Undergoing Peritoneal Dialysis. Peritoneal Dialysis International, 2013, 33, 51-59.	2.3	23
44	Bacterial profiles and proteolytic activity in peri-implantitis versus healthy sites. Anaerobe, 2015, 35, 28-34.	2.1	23
45	A randomized, controlled, clinical study on a new titanium oxide abutment surface for improved healing and soft tissue health. Clinical Implant Dentistry and Related Research, 2019, 21, 55-68.	3.7	22
46	Dentine sialoprotein and Collagen I expression after experimental pulp capping in humans using EmdogainÂ®Gel. International Endodontic Journal, 2011, 44, 259-267.	5.0	21
47	Salivary proteins promote proteolytic activity in Streptococcus mitis biovar 2 and Streptococcus mutans. Molecular Oral Microbiology, 2012, 27, 362-372.	2.7	21
48	Modified lipoproteins in periodontitis: a link to cardiovascular disease?. Bioscience Reports, 2019, 39, .	2.4	21
49	The Graduating European Dentistâ€”Domain I: Professionalism. European Journal of Dental Education, 2017, 21, 11-13.	2.0	19
50	The uptake of radiolabelled precursors of mucus glycoconjugates by secretory tissues in the feline trachea.. Journal of Physiology, 1990, 420, 19-30.	2.9	18
51	Surface-associated MUC5B mucins promote protease activity in Lactobacillus fermentum biofilms. BMC Oral Health, 2013, 13, 43.	2.3	18
52	Salivary pellicles on titanium and their effect on metabolic activity in Streptococcus oralis. BMC Oral Health, 2013, 13, 32.	2.3	17
53	Biofilm formation byStaphylococcus epidermidison peritoneal dialysis catheters and the effects of extracellular products fromPseudomonas aeruginosa. Pathogens and Disease, 2013, 67, 192-198.	2.0	17
54	Respiratory tract mucins: structure and expression patterns. Novartis Foundation Symposium, 2002, 248, 76-88; discussion 88-93, 277-82.	1.1	17

#	Article	IF	Citations
55	Effect of Fluoride and Chlorhexidine Digluconate Mouthrinses on Plaque Biofilms. Open Dentistry Journal, 2015, 9, 106-111.	0.5	14
56	Biosynthesis of mucins in bovine trachea: identification of the major radiolabelled species. Biochemical Journal, 1998, 333, 449-456.	3.7	13
57	Streptococcus gordonii Type I Lipoteichoic Acid Contributes to Surface Protein Biogenesis. MSphere, 2019, 4, .	2.9	13
58	Human gastric mucins - a major population identified as MUC5. Biochemical Society Transactions, 1995, 23, 533S-533S.	3.4	12
59	Mucin biosynthesis and secretion in tracheal epithelial cells in primary culture. Biochemical Journal, 2001, 353, 23-32.	3.7	12
60	Titanium granules pre-treated with hydrogen peroxide inhibit growth of bacteria associated with post-operative infections in spine surgery. European Spine Journal, 2018, 27, 2463-2468.	2.2	12
61	pH-dependent binding ofHelicobacter pylorito pig gastric mucins. FEMS Immunology and Medical Microbiology, 1999, 24, 175-181.	2.7	11
62	Structural and Functional Analysis of the N-terminal Domain of the Streptococcus gordonii Adhesin Sgo0707. PLoS ONE, 2013, 8, e63768.	2.5	11
63	The effect of delmopinol and fluoride on acid adaptation and acid production in dental plaque biofilms. Archives of Oral Biology, 2014, 59, 318-323.	1.8	11
64	Bactericidal effect of photocatalyticallyâ€active nanostructured TiO₂ surfaces on biofilms of the early oral colonizer, Streptococcus oralis. Journal of Biomedical Materials Research - Part A, 2017, 105, 2321-2328.	4.0	10
65	Oâ€HEALTHâ€EDU: A scoping review on the reporting of oral health professional education in Europe. European Journal of Dental Education, 2021, 25, 56-77.	2.0	10
66	Mucus glycoproteins in bovine trachea: identification of the major mucin populations in respiratory secretions and investigation of their tissue origins. Biochemical Journal, 1997, 321, 117-124.	3.7	9
67	Effects of bacterial products on the activity of odontoblastâ€like cells and their formation of type 1 collagen. International Endodontic Journal, 2014, 47, 397-404.	5.0	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. Dental Materials, 2016, 32, e148-e158.	3.5	6
69	Bacterial colonization of a powerâ€driven water flosser during regular use. A proofâ€ofâ€principle study. Clinical and Experimental Dental Research, 2021, 7, 656-663.	1.9	5
70	ARTICULATE: A European glossary of terms used in oral health professional education. European Journal of Dental Education, 2023, 27, 209-222.	2.0	5
71	Polymicrobial synergy stimulates Porphyromonas gingivalis survival and gingipain expression in a multi-species subgingival community. BMC Oral Health, 2021, 21, 639.	2.3	5
72	Human tracheal mucinsâ€“ is MUC5 more prominent in the epithelial surface than in the submucosa?. Biochemical Society Transactions, 1995, 23, 534S-534S.	3.4	4

#	Article	IF	Citations
73	Exogenous LL-37 but not homogenates of desquamated oral epithelial cells shows activity against Streptococcus mutans. Acta Odontologica Scandinavica, 2021, 79, 466-472.	1.6	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. Biochemical Journal, 2000, 353, 23.	3.7	3
76	<scp>Oâ€Healthâ€Edu</scp>: A vision for oral health professional education in Europe. European Journal of Dental Education, 2023, 27, 382-387.	2.0	3
77	Characterization of core polypeptides of human bronchial mucins. Biochemical Society Transactions, 1986, 14, 114-115.	3.4	2
78	Streptococcus gordonii Poised for Glycan Feeding through a MUC5B-Discriminating, Lipoteichoic Acid-Mediated Outside-In Signaling Circuit. Journal of Bacteriology, 0, , .	2.2	2
79	S20.10 Identification of three different populations of mucus glycoproteins from pig gastric mucosa. Glycoconjugate Journal, 1993, 10, 344-345.	2.7	0
80	S20.20 Bovine trachea as a model for mucin secretion in the airways. Glycoconjugate Journal, 1993, 10, 348-348.	2.7	0
81	Modeling the development of proteolytic phenotypes in multi-species oral biofilms. Journal of Oral Microbiology, 2017, 9, 1325274.	2.7	0