

Brendan F Gilmore

List of Publications by Year in descending order

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107
papers

7,012
citations

66343

42
h-index

60623

81
g-index

110
all docs

110
docs citations

110
times ranked

10813
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical relevance of the ESKAPE pathogens. <i>Expert Review of Anti-Infective Therapy</i> , 2013, 11, 297-308.	4.4	1,064
2	Alternatives to antibiotics—a pipeline portfolio review. <i>Lancet Infectious Diseases</i> , The, 2016, 16, 239-251.	9.1	720
3	Microbiological interactions with cold plasma. <i>Journal of Applied Microbiology</i> , 2017, 123, 308-324.	3.1	276
4	Application of γ -Transaminases in the Pharmaceutical Industry. <i>Chemical Reviews</i> , 2018, 118, 349-367.	47.7	267
5	Antibiofilm activities of 1-alkyl-3-methylimidazolium chloride ionic liquids. <i>Green Chemistry</i> , 2009, 11, 492.	9.0	249
6	Synergistic phage-antibiotic combinations for the control of <i>Escherichia coli</i> biofilms in vitro. <i>FEMS Immunology and Medical Microbiology</i> , 2012, 65, 395-398.	2.7	182
7	Recent advances in bacteriophage therapy: how delivery routes, formulation, concentration and timing influence the success of phage therapy. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 63, 1253-1264.	2.4	169
8	Eradication of <i>Pseudomonas aeruginosa</i> Biofilms by Atmospheric Pressure Non-Thermal Plasma. <i>PLoS ONE</i> , 2012, 7, e44289.	2.5	159
9	Antimicrobial and antibiofilm activities of 1-alkylquinolinium bromide ionic liquids. <i>Green Chemistry</i> , 2010, 12, 420.	9.0	154
10	The antimicrobial potential of ionic liquids: A source of chemical diversity for infection and biofilm control. <i>International Journal of Antimicrobial Agents</i> , 2015, 46, 131-139.	2.5	152
11	The Potential of Antimicrobial Peptides as Biocides. <i>International Journal of Molecular Sciences</i> , 2011, 12, 6566-6596.	4.1	140
12	The use of lytic bacteriophages in the prevention and eradication of biofilms of <i>Proteus mirabilis</i> and <i>Escherichia coli</i> . <i>FEMS Immunology and Medical Microbiology</i> , 2010, 59, 447-455.	2.7	139
13	<i>Staphylococcus epidermidis</i> device-related infections: pathogenesis and clinical management. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 60, 1551-1571.	2.4	137
14	Cold Plasmas for Biofilm Control: Opportunities and Challenges. <i>Trends in Biotechnology</i> , 2018, 36, 627-638.	9.3	137
15	Biomolecular Mechanisms of <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> Biofilm Formation. <i>Pathogens</i> , 2014, 3, 596-632.	2.8	134
16	Potential cellular targets and antibacterial efficacy of atmospheric pressure non-thermal plasma. <i>International Journal of Antimicrobial Agents</i> , 2014, 43, 154-160.	2.5	130
17	Antimicrobial efficacy of tobramycin polymeric nanoparticles for <i>Pseudomonas aeruginosa</i> infections in cystic fibrosis: Formulation, characterisation and functionalisation with dornase alfa (DNase). <i>Journal of Controlled Release</i> , 2015, 198, 55-61.	9.9	122
18	Antimicrobial Activity of Short, Synthetic Cationic Lipopeptides. <i>Chemical Biology and Drug Design</i> , 2010, 75, 563-569.	3.2	107

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19	Extracellular DNA Impedes the Transport of Vancomycin in <i>Staphylococcus epidermidis</i> Biofilms Preexposed to Subinhibitory Concentrations of Vancomycin. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 7273-7282.	3.2	102
20	Ultrashort Cationic Naphthalene-Derived Self-Assembled Peptides as Antimicrobial Nanomaterials. <i>Biomacromolecules</i> , 2014, 15, 3429-3439.	5.4	97
21	3D Printing of Drug-Loaded Thermoplastic Polyurethane Meshes: A Potential Material for Soft Tissue Reinforcement in Vaginal Surgery. <i>Pharmaceutics</i> , 2020, 12, 63.	4.5	92
22	Application of atmospheric pressure nonthermal plasma for the <i>in vitro</i> eradication of bacterial biofilms. <i>FEMS Immunology and Medical Microbiology</i> , 2012, 65, 381-384.	2.7	89
23	Novel Inhibitors of the <i>Pseudomonas aeruginosa</i> Virulence Factor LasB: a Potential Therapeutic Approach for the Attenuation of Virulence Mechanisms in Pseudomonal Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2670-2678.	3.2	85
24	Comparison of the cidal activity of tea tree oil and terpinen-4-ol against clinical bacterial skin isolates and human fibroblast cells. <i>Letters in Applied Microbiology</i> , 2008, 46, 428-433.	2.2	83
25	Biomolecular mechanisms of staphylococcal biofilm formation. <i>Future Microbiology</i> , 2013, 8, 509-524.	2.0	82
26	A holistic study to understand the detoxification of mycotoxins in maize and impact on its molecular integrity using cold atmospheric plasma treatment. <i>Food Chemistry</i> , 2019, 301, 125281.	8.2	71
27	Bactericidal efficacy of atmospheric pressure non-thermal plasma (APNTP) against the ESKAPE pathogens. <i>International Journal of Antimicrobial Agents</i> , 2015, 46, 101-107.	2.5	70
28	<i>Galleria mellonella</i> as a novel <i>in vivo</i> model for assessment of the toxicity of 1-alkyl-3-methylimidazolium chloride ionic liquids. <i>Chemosphere</i> , 2015, 139, 197-201.	8.2	67
29	Functional Proteomic Profiling of Secreted Serine Proteases in Health and Inflammatory Bowel Disease. <i>Scientific Reports</i> , 2018, 8, 7834.	3.3	67
30	Archaeal Persisters: Persister Cell Formation as a Stress Response in <i>Haloferax volcanii</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 1589.	3.5	64
31	Degradation kinetics of cold plasma-treated antibiotics and their antimicrobial activity. <i>Scientific Reports</i> , 2019, 9, 3955.	3.3	63
32	Bacteriophage Can Prevent Encrustation and Blockage of Urinary Catheters by <i>Proteus mirabilis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 1530-1536.	3.2	61
33	Regulation of TGF- β 1-driven Differentiation of Human Lung Fibroblasts. <i>Journal of Biological Chemistry</i> , 2014, 289, 16239-16251.	3.4	60
34	Evolution of Antimicrobial Peptides to Self-Assembled Peptides for Biomaterial Applications. <i>Pathogens</i> , 2014, 3, 791-821.	2.8	58
35	Ultrashort self-assembling Fmoc-peptide gelators for anti-infective biomaterial applications. <i>Journal of Peptide Science</i> , 2017, 23, 131-140.	1.4	57
36	High voltage atmospheric cold air plasma control of bacterial biofilms on fresh produce. <i>International Journal of Food Microbiology</i> , 2019, 293, 137-145.	4.7	56

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37	Atmospheric pressure, nonthermal plasma inactivation of MS2 bacteriophage: effect of oxygen concentration on virucidal activity. <i>Journal of Applied Microbiology</i> , 2013, 115, 1420-1426.	3.1	54
38	Transaminases for industrial biocatalysis: novel enzyme discovery. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 4781-4794.	3.6	54
39	Antimicrobial peptide incorporated poly(2-hydroxyethyl methacrylate) hydrogels for the prevention of <i>Staphylococcus epidermidis</i> -associated biomaterial infections. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1803-1814.	4.0	53
40	Non-thermal Plasma Exposure Rapidly Attenuates Bacterial AHL-Dependent Quorum Sensing and Virulence. <i>Scientific Reports</i> , 2016, 6, 26320.	3.3	53
41	Novel decontamination approaches and their potential application for post-harvest aflatoxin control. <i>Trends in Food Science and Technology</i> , 2020, 106, 489-496.	15.1	48
42	Enhanced antimicrobial activities of 1-alkyl-3-methyl imidazolium ionic liquids based on silver or copper containing anions. <i>New Journal of Chemistry</i> , 2013, 37, 873.	2.8	45
43	Electrical methods of controlling bacterial adhesion and biofilm on device surfaces. <i>Expert Review of Medical Devices</i> , 2013, 10, 85-103.	2.8	43
44	Marine-Derived Quorum-Sensing Inhibitory Activities Enhance the Antibacterial Efficacy of Tobramycin against <i>Pseudomonas aeruginosa</i> . <i>Marine Drugs</i> , 2015, 13, 1-28.	4.6	38
45	Cytotoxicity of 1-alkylquinolinium bromide ionic liquids in murine fibroblast NIH 3T3 cells. <i>Green Chemistry</i> , 2011, 13, 2794.	9.0	37
46	Extracellular cathepsin S and intracellular caspase 1 activation are surrogate biomarkers of particulate-induced lysosomal disruption in macrophages. <i>Particle and Fibre Toxicology</i> , 2015, 13, 19.	6.2	35
47	Gut Check Time: Antibiotic Delivery Strategies to Reduce Antimicrobial Resistance. <i>Trends in Biotechnology</i> , 2020, 38, 447-462.	9.3	35
48	Isolation and Characterisation of 1-Alkyl-3-Methylimidazolium Chloride Ionic Liquid-Tolerant and Biodegrading Marine Bacteria. <i>PLoS ONE</i> , 2013, 8, e60806.	2.5	34
49	Strategies for the development of the urinary catheter. <i>Expert Review of Medical Devices</i> , 2007, 4, 215-225.	2.8	32
50	Dipeptide proline diphenyl phosphonates are potent, irreversible inhibitors of seprase (FAP \pm). <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 436-446.	2.1	31
51	Inhibitor profiling of the <i>Pseudomonas aeruginosa</i> virulence factor LasB using N-alpha mercaptoamide template-based inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6230-6232.	2.2	27
52	Evolutionary clade affects resistance of <i>Clostridium difficile</i> spores to Cold Atmospheric Plasma. <i>Scientific Reports</i> , 2017, 7, 41814.	3.3	27
53	ZapA, a Virulence Factor in a Rat Model of <i>Proteus mirabilis</i> -Induced Acute and Chronic Prostatitis. <i>Infection and Immunity</i> , 2008, 76, 4859-4864.	2.2	26
54	Marine macroalgae and their associated microbiomes as a source of antimicrobial chemical diversity. <i>European Journal of Phycology</i> , 2017, 52, 452-465.	2.0	24

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55	In vitro phototoxicity of 5-aminolevulinic acid and its methyl ester and the influence of barrier properties on their release from a bioadhesive patch. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2006, 63, 295-309.	4.3	23
56	Validation of the CDC biofilm reactor as a dynamic model for assessment of encrustation formation on urological device materials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 128-140.	3.4	23
57	Antibiotic Therapy and the Gut Microbiome: Investigating the Effect of Delivery Route on Gut Pathogens. <i>ACS Infectious Diseases</i> , 2021, 7, 1283-1296.	3.8	22
58	Anti-biofilm activity of ultrashort cinnamic acid peptide derivatives against medical device-related pathogens. <i>Journal of Peptide Science</i> , 2015, 21, 770-778.	1.4	21
59	<i>Acinetobacter baumannii</i> biofilm biomass mediates tolerance to cold plasma. <i>Letters in Applied Microbiology</i> , 2019, 68, 344-349.	2.2	21
60	Synthesis, kinetic evaluation, and utilization of a biotinylated dipeptide proline diphenyl phosphonate for the disclosure of dipeptidyl peptidase IV-like serine proteases. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 373-379.	2.1	20
61	Potential strategies for the eradication of multidrug-resistant Gram-negative bacterial infections. <i>Future Microbiology</i> , 2016, 11, 955-972.	2.0	19
62	Eradication and phenotypic tolerance of <i>Burkholderia cenocepacia</i> biofilms exposed to atmospheric pressure non-thermal plasma. <i>International Journal of Antimicrobial Agents</i> , 2016, 47, 446-450.	2.5	18
63	Antibiofilm Activity of the Brown Alga <i>Halidrys siliquosa</i> against Clinically Relevant Human Pathogens. <i>Marine Drugs</i> , 2015, 13, 3581-3605.	4.6	17
64	Cold atmospheric plasma is a viable solution for treating orthopedic infection: a review. <i>Biological Chemistry</i> , 2018, 400, 77-86.	2.5	17
65	Eradication of marine biofilms by atmospheric pressure non-thermal plasma: A potential approach to control biofouling?. <i>International Biodeterioration and Biodegradation</i> , 2014, 86, 14-18.	3.9	16
66	Isolation and Characterisation of a Halotolerant α -Transaminase from a Triassic Period Salt Mine and Its Application to Biocatalysis. <i>ChemistrySelect</i> , 2017, 2, 9783-9791.	1.5	16
67	Understanding plasma biofilm interactions for controlling infection and virulence. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 263001.	2.8	16
68	Characterization of ionic liquid cytotoxicity mechanisms in human keratinocytes compared with conventional biocides. <i>Chemosphere</i> , 2021, 270, 129432.	8.2	16
69	Novel Phage-Derived Depolymerase with Activity against <i>Proteus mirabilis</i> Biofilms. <i>Microorganisms</i> , 2021, 9, 2172.	3.6	16
70	Characterisation of a solvent-tolerant haloarchaeal (R)-selective transaminase isolated from a Triassic period salt mine. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5727-5737.	3.6	15
71	Bacteriophages as anti-infective agents: recent developments and regulatory challenges. <i>Expert Review of Anti-Infective Therapy</i> , 2012, 10, 533-535.	4.4	14
72	Plasmid DNA Damage Following Exposure to Atmospheric Pressure Nonthermal Plasma: Kinetics and Influence of Oxygen Admixture. <i>Plasma Medicine</i> , 2014, 4, 211-219.	0.6	14

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73	Sea snake cathelicidin (Hc-cath) exerts a protective effect in mouse models of lung inflammation and infection. <i>Scientific Reports</i> , 2019, 9, 6071.	3.3	13
74	Expedited Solid-Phase Synthesis of Fluorescently Labeled and Biotinylated Aminoalkane Diphenyl Phosphonate Affinity Probes for Chymotrypsin- and Elastase-Like Serine Proteases. <i>Bioconjugate Chemistry</i> , 2009, 20, 2098-2105.	3.6	12
75	Biofilm Eradication Kinetics of the Ultrashort Lipopeptide C ₁₂ -OOWW-NH ₂ Utilizing a Modified MBEC Assay. <i>Chemical Biology and Drug Design</i> , 2015, 85, 645-652.	3.2	12
76	Strategies for detection and quantification of cysteine cathepsins-evolution from bench to bedside. <i>Biochimie</i> , 2016, 122, 48-61.	2.6	12
77	Red algal extracts from <i>Plocamium lyngbyanum</i> and <i>Ceramium secundatum</i> stimulate osteogenic activities in vitro and bone growth in zebrafish larvae. <i>Scientific Reports</i> , 2018, 8, 7725.	3.3	12
78	An introduction to zwitterionic salts. <i>Green Chemistry</i> , 2017, 19, 4007-4011.	9.0	11
79	Screening for osteogenic activity in extracts from Irish marine organisms: The potential of <i>Ceramium pallidum</i> . <i>PLoS ONE</i> , 2018, 13, e0207303.	2.5	11
80	Biocatalysis in seawater: Investigating a halotolerant α -transaminase capable of converting furfural in a seawater reaction medium. <i>Engineering in Life Sciences</i> , 2019, 19, 721-725.	3.6	11
81	High-throughput toxicity screening of novel azepanium and 3-methylpiperidinium ionic liquids. <i>RSC Advances</i> , 2020, 10, 22864-22870.	3.6	11
82	Microbiology of a NaCl stalactite "salticle"™ in Triassic halite. <i>Environmental Microbiology</i> , 2021, 23, 3881-3895.	3.8	10
83	Active site labeling of cysteine cathepsins by a straightforward diazomethylketone probe derived from the N-terminus of human cystatin C. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 250-254.	2.1	9
84	Characterization of a novel α -transaminase from a Triassic salt mine metagenome. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 2936-2942.	2.1	9
85	Profiling the microbial community of a Triassic halite deposit in Northern Ireland: an environment with significant potential for biodiscovery. <i>FEMS Microbiology Letters</i> , 2019, 366, .	1.8	9
86	Safety evaluation of plasma-treated lettuce broth using <i>in vitro</i> and <i>in vivo</i> toxicity models. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 274003.	2.8	9
87	Antimicrobial 3D Printed Objects in the Fight Against Pandemics. <i>3D Printing and Additive Manufacturing</i> , 2021, 8, 79-86.	2.9	9
88	The <i>In Vitro</i> Susceptibility of Biofilm Forming Medical Device Related Pathogens to Conventional Antibiotics. <i>Dataset Papers in Science</i> , 2014, 2014, 1-10.	1.0	9
89	Comparison of the binding specificity of two bacterial metalloproteases, LasB of <i>Pseudomonas aeruginosa</i> and ZapA of <i>Proteus mirabilis</i> , using N-alpha mercaptoamide template-based inhibitor analogues. <i>Biochemical and Biophysical Research Communications</i> , 2012, 422, 316-320.	2.1	7
90	Comprehensive inhibitor profiling of the <i>Proteus mirabilis</i> metalloprotease virulence factor ZapA (mirabilysin). <i>Biochimie</i> , 2011, 93, 1824-1827.	2.6	6

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91	Extracts of <i>Sida cordifolia</i> contain polysaccharides possessing immunomodulatory activity and rosmarinic acid compounds with antibacterial activity. <i>BMC Complementary Medicine and Therapies</i> , 2022, 22, 27.	2.7	6
92	Draft Genome Sequence of <i>Staphylococcus succinus</i> Strain CSM-77, a Moderately Halophilic Bacterium Isolated from a Triassic Salt Mine. <i>Genome Announcements</i> , 2016, 4, .	0.8	5
93	Profiling the activity of edible European macroalgae towards pharmacological targets for type 2 diabetes mellitus. <i>Applied Phycology</i> , 2021, 2, 10-21.	1.3	5
94	Extracellular polymeric substance-mediated tolerance of <i>Pseudomonas aeruginosa</i> biofilms to atmospheric pressure nonthermal plasma treatment. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000108.	3.0	4
95	Non-invasive, 3D printed, colourimetric, early wound-infection indicator. <i>Chemical Communications</i> , 2022, 58, 439-442.	4.1	4
96	Models for the assessment of biofilm and encrustation formation on urological materials. , 2009, , 59-81.		3
97	Catheter-based drug-device combination products: an overview. , 2010, , 61-92.		3
98	The application of a novel, cell permeable activity-based probe for the detection of cysteine cathepsins. <i>Biochemical and Biophysical Research Communications</i> , 2016, 472, 444-450.	2.1	3
99	Draft Genome Sequence of <i>Halomonas</i> sp. CSM-2, a Moderately Halophilic Bacterium Isolated from a Triassic Salt Mine. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	3
100	Atmospheric pressure non-thermal plasma exposure reduces <i>Pseudomonas aeruginosa</i> lipopolysaccharide toxicity in vitro and in vivo. <i>Microbial Pathogenesis</i> , 2019, 136, 103679.	2.9	3
101	Novel Antibacterial Properties of the Human Dental Pulp Multipotent Mesenchymal Stromal Cell Secretome. <i>American Journal of Pathology</i> , 2022, 192, 956-969.	3.8	3
102	Peptides containing Acylated C-terminal Gem diamines: Novel Irreversible Inactivators of the Cysteine and Serine Proteinases+. <i>Chemical Biology and Drug Design</i> , 2006, 67, 364-369.	3.2	2
103	Draft Genome Sequence of <i>Salinisphaera</i> sp. Strain KSM-18, an Obligately Halophilic Bacterium Isolated from a Triassic Salt Mine. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	2
104	Editorial (Thematic Issue:Emerging Concepts in Bacterial Biofilm Control). <i>Current Pharmaceutical Design</i> , 2014, 21, 3-4.	1.9	1
105	Biomolecules as Model Indicators of In Vitro and In Vivo Cold Plasma Safety. <i>Frontiers in Physics</i> , 2021, 8, .	2.1	1
106	Draft Genome Sequences of <i>Halobacterium</i> sp. Strains KA-4 and KA-6, Two Extremely Halophilic Archaea Isolated from a Triassic Salt Deposit in Northern Ireland. <i>Microbiology Resource Announcements</i> , 2022, 11, e0116521.	0.6	0
107	Emerging Concepts in Management of Bacterial Biofilm Infections. <i>Current Pharmaceutical Design</i> , 2014, , .	1.9	0