

Andrew J Spiers

List of Publications by Year in descending order

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67
papers

5,354
citations

185998

28
h-index

133063

59
g-index

73
all docs

73
docs citations

73
times ranked

6802
citing authors

#	ARTICLE	IF	CITATIONS
1	The minimum information about a genome sequence (MIGS) specification. <i>Nature Biotechnology</i> , 2008, 26, 541-547.	9.4	1,069
2	Antagonistic coevolution accelerates molecular evolution. <i>Nature</i> , 2010, 464, 275-278.	13.7	492
3	Biofilm formation at the air-liquid interface by the <i>Pseudomonas fluorescens</i> SBW25 wrinkly spreader requires an acetylated form of cellulose. <i>Molecular Microbiology</i> , 2003, 50, 15-27.	1.2	393
4	Genomic and genetic analyses of diversity and plant interactions of <i>Pseudomonas fluorescens</i> . <i>Genome Biology</i> , 2009, 10, R51.	13.9	370
5	The causes of <i>Pseudomonas</i> diversity. <i>Microbiology (United Kingdom)</i> , 2000, 146, 2345-2350.	0.7	276
6	Adaptive Divergence in Experimental Populations of <i>Pseudomonas fluorescens</i> . I. Genetic and Phenotypic Bases of Wrinkly Spreader Fitness. <i>Genetics</i> , 2002, 161, 33-46.	1.2	257
7	Parallel Compensatory Evolution Stabilizes Plasmids across the Parasitism-Mutualism Continuum. <i>Current Biology</i> , 2015, 25, 2034-2039.	1.8	225
8	Biofilm formation and cellulose expression among diverse environmental <i>Pseudomonas</i> isolates. <i>Environmental Microbiology</i> , 2006, 8, 1997-2011.	1.8	221
9	Chapter 4 Microbial Distribution in Soils. <i>Advances in Agronomy</i> , 2008, 100, 81-121.	2.4	166
10	Transparent Soil for Imaging the Rhizosphere. <i>PLoS ONE</i> , 2012, 7, e44276.	1.1	156
11	Adaptive Divergence in Experimental Populations of <i>Pseudomonas fluorescens</i> . III. Mutational Origins of Wrinkly Spreader Diversity. <i>Genetics</i> , 2007, 176, 441-453.	1.2	150
12	Genes encoding a cellulosic polymer contribute toward the ecological success of <i>Pseudomonas fluorescens</i> SBW25 on plant surfaces. <i>Molecular Ecology</i> , 2003, 12, 3109-3121.	2.0	144
13	The <i>Pseudomonas fluorescens</i> SBW25 wrinkly spreader biofilm requires attachment factor, cellulose fibre and LPS interactions to maintain strength and integrity. <i>Microbiology (United Kingdom)</i> , 2005, 151, 2829-2839.	0.7	130
14	The structure–function relationship of WspR, a <i>Pseudomonas fluorescens</i> response regulator with a GGDEF output domain. <i>Microbiology (United Kingdom)</i> , 2007, 153, 980-994.	0.7	115
15	Adaptive Divergence in Experimental Populations of <i>Pseudomonas fluorescens</i> . II. Role of the GGDEF Regulator WspR in Evolution and Development of the Wrinkly Spreader Phenotype. <i>Genetics</i> , 2006, 173, 515-526.	1.2	104
16	Quorum-Quenching Activity of the AHL-Lactonase from <i>Bacillus licheniformis</i> DAHB1 Inhibits <i>Vibrio</i> Biofilm Formation In Vitro and Reduces Shrimp Intestinal Colonisation and Mortality. <i>Marine Biotechnology</i> , 2014, 16, 707-715.	1.1	95
17	Characterization of a novel air–liquid interface biofilm of <i>Pseudomonas fluorescens</i> SBW25. <i>Microbiology (United Kingdom)</i> , 2009, 155, 1397-1406.	0.7	86
18	Environmentally occurring mercury resistance plasmids are genetically and phenotypically diverse and confer variable context-dependent fitness effects. <i>Environmental Microbiology</i> , 2015, 17, 5008-5022.	1.8	68

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19	Sequence-based analysis of pQBR103; a representative of a unique, transfer-proficient mega plasmid resident in the microbial community of sugar beet. <i>ISME Journal</i> , 2007, 1, 331-340.	4.4	50
20	Rapid compensatory evolution promotes the survival of conjugative plasmids. <i>Mobile Genetic Elements</i> , 2016, 6, e1179074.	1.8	49
21	Environmental modification and niche construction: developing O ₂ gradients drive the evolution of the Wrinkly Spreader. <i>ISME Journal</i> , 2011, 5, 665-673.	4.4	45
22	Nucleotide sequence and replication characteristics of RepFIB, a basic replicon of IncF plasmids. <i>Journal of Bacteriology</i> , 1989, 171, 2697-2707.	1.0	42
23	Air-liquid interface biofilm formation by psychrotrophic pseudomonads recovered from spoilt meat. <i>Antonie Van Leeuwenhoek</i> , 2013, 103, 251-259.	0.7	42
24	Single-Cell Raman Spectral Profiles of <i>Pseudomonas fluorescens</i> SBW25 Reflects in vitro and in planta Metabolic History. <i>Microbial Ecology</i> , 2007, 53, 414-425.	1.4	41
25	Bacteriophages Limit the Existence Conditions for Conjugative Plasmids. <i>MBio</i> , 2015, 6, e00586.	1.8	41
26	Priming winter wheat seeds with the bacterial quorum sensing signal N-hexanoyl-L-homoserine lactone (C6-HSL) shows potential to improve plant growth and seed yield. <i>PLoS ONE</i> , 2019, 14, e0209460.	1.1	40
27	Transparent soil microcosms allow 3D spatial quantification of soil microbiological processes in vivo. <i>Plant Signaling and Behavior</i> , 2014, 9, e970421.	1.2	37
28	<i>Pseudomonas fluorescens</i> SBW25 Biofilm and Planktonic Cells Have Differentiable Raman Spectral Profiles. <i>Microbial Ecology</i> , 2007, 53, 471-474.	1.4	30
29	Characterizing the regulation of the <i>Pu</i> promoter in <i>Acinetobacter baylyi</i> ADP1. <i>Environmental Microbiology</i> , 2008, 10, 1668-1680.	1.8	27
30	Expression and regulation of the RepA protein of the RepFIB replicon from plasmid P307. <i>Journal of Bacteriology</i> , 1992, 174, 7533-7541.	1.0	26
31	A Mechanistic Explanation Linking Adaptive Mutation, Niche Change, and Fitness Advantage for the Wrinkly Spreader. <i>International Journal of Evolutionary Biology</i> , 2014, 2014, 1-10.	1.0	25
32	RepFIB: A Basic Replicon of Large Plasmids. <i>Plasmid</i> , 1993, 29, 165-179.	0.4	24
33	Control of Pore Geometry in Soil Microcosms and Its Effect on the Growth and Spread of <i>Pseudomonas</i> and <i>Bacillus</i> sp.. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	23
34	Conflicting selection alters the trajectory of molecular evolution in a tripartite bacteria-phage interaction. <i>Molecular Ecology</i> , 2017, 26, 2757-2764.	2.0	22
35	C-terminal interactions between the XerC and XerD site-specific recombinases. <i>Molecular Microbiology</i> , 1999, 32, 1031-1042.	1.2	21
36	Evolution in a test tube: rise of the Wrinkly Spreaders. <i>Journal of Biological Education</i> , 2011, 45, 54-59.	0.8	20

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37	Surfactants expressed by soil pseudomonads alter local soil-water distribution, suggesting a hydrological role for these compounds. <i>FEMS Microbiology Ecology</i> , 2011, 78, 50-58.	1.3	19
38	Relating primary structure to function in the <i>Escherichia coli</i> XerD site-specific recombinase. <i>Molecular Microbiology</i> , 1997, 24, 1071-1082.	1.2	17
39	Plasmid carriage can limit bacteria-phage coevolution. <i>Biology Letters</i> , 2015, 11, 20150361.	1.0	17
40	Adaptive radiation of <i>Pseudomonas fluorescens</i> SBW25 in experimental microcosms provides an understanding of the evolutionary ecology and molecular biology of A-L interface biofilm formation. <i>FEMS Microbiology Letters</i> , 2017, 364, .	0.7	16
41	Wrinkly-Spreader Fitness in the Two-Dimensional Agar Plate Microcosm: Maladaptation, Compensation and Ecological Success. <i>PLoS ONE</i> , 2007, 2, e740.	1.1	15
42	The evolution of biofilm-forming Wrinkly Spreaders in static microcosms and drip-fed columns selects for subtle differences in wrinkleality and fitness. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	1.3	14
43	eDNA Inactivation and Biofilm Inhibition by the Polymeric Biocide Polyhexamethylene Guanidine Hydrochloride (PHMG-Cl). <i>International Journal of Molecular Sciences</i> , 2022, 23, 731.	1.8	14
44	Predicting the minimum liquid surface tension activity of pseudomonads expressing biosurfactants. <i>Letters in Applied Microbiology</i> , 2015, 60, 37-43.	1.0	13
45	Viewing Biofilms within the Larger Context of Bacterial Aggregations. , 0, , .		11
46	Biofilm formation and cellulose expression by <i>Bordetella avium</i> 197N, the causative agent of bordetellosis in birds and an opportunistic respiratory pathogen in humans. <i>Research in Microbiology</i> , 2017, 168, 419-430.	1.0	11
47	Regulatory interactions between RepA, an essential replication protein, and the DNA repeats of RepFIB from plasmid P307. <i>Journal of Bacteriology</i> , 1993, 175, 4016-4024.	1.0	8
48	Notes on designing a partial genomic database: The PfSBW25 Encyclopaedia, a sequence database for <i>Pseudomonas fluorescens</i> SBW25. <i>Microbiology (United Kingdom)</i> , 2001, 147, 247-249.	0.7	8
49	New Insights into the Effects of Several Environmental Parameters on the Relative Fitness of a Numerically Dominant Class of Evolved Niche Specialist. <i>International Journal of Evolutionary Biology</i> , 2016, 2016, 1-10.	1.0	7
50	Up-dating the Cholodny method using PET films to sample microbial communities in soil. <i>Biopolymers and Cell</i> , 2011, 27, 199-205.	0.1	7
51	Three biofilm types produced by a model pseudomonad are differentiated by structural characteristics and fitness advantage. <i>Microbiology (United Kingdom)</i> , 2020, 166, 707-716.	0.7	7
52	The Environmental Plasmid pQBR103 Alters the Single-Cell Raman Spectral Profile of <i>Pseudomonas fluorescens</i> SBW25. <i>Microbial Ecology</i> , 2007, 53, 494-497.	1.4	6
53	Cellulose Expression in <i>Pseudomonas fluorescens</i> SBW25 and Other Environmental Pseudomonads. , 0, , .		6
54	Azithromycin possesses biofilm-inhibitory activity and potentiates non-bactericidal colistin methanesulfonate (CMS) and polymyxin B against <i>Klebsiella pneumoniae</i> . <i>PLoS ONE</i> , 2022, 17, e0270983.	1.1	6

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55	Penetrating the air-liquid interface is the key to colonization and wrinkly spreader fitness. <i>Microbiology</i> (United Kingdom), 2019, 165, 1061-1074.	0.7	5
56	The genetics of phenotypic innovation. , 0, , 91-104.		4
57	Getting Wrinkly Spreaders to demonstrate evolution in schools. <i>Trends in Microbiology</i> , 2014, 22, 301-303.	3.5	4
58	Parachuting: a dangerous trend in recreational psychoactive substance delivery. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 491-498.	2.4	3
59	Consideration of Future Requirements for Raman Microbiology as an Exemplar for the Ab Initio Development of Informatics Frameworks for Emergent OMICS Technologies. <i>OMICS A Journal of Integrative Biology</i> , 2006, 10, 238-241.	1.0	2
60	Uncovering behavioural diversity amongst high-strength <i>Pseudomonas</i> spp. surfactants at the limit of liquid surface tension reduction. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	2
61	Community biofilm-formation, stratification and productivity in serially-transferred microcosms. <i>FEMS Microbiology Letters</i> , 2021, 367, .	0.7	2
62	Extending an Eco-Evolutionary Understanding of Biofilm-Formation at the Air-Liquid Interface to Community Biofilms. , 2020, , .		1
63	Penetration of the air-liquid interface is key to the Wrinkly Spreader success. <i>Access Microbiology</i> , 2019, 1, .	0.2	1
64	Microbial honours. <i>Trends in Microbiology</i> , 1998, 6, 125.	3.5	0
65	A role for glutathione and its biosynthetic genes in <i>Anopheles gambiae</i> insecticide resistance. <i>Journal of Biotechnology</i> , 2015, 208, S24.	1.9	0
66	Selection and niche trade-offs in biofilm-forming bacterial communities in experimental microcosms. <i>Access Microbiology</i> , 2020, 2, .	0.2	0
67	Characterisation of surfactant-expressing bacteria and their potential bioremediation properties from hydrocarbon-contaminated and uncontaminated soils. <i>Access Microbiology</i> , 2020, 2, .	0.2	0