

Andrew D Griffiths

List of Publications by Year in Descending Order

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Version: 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

20,236
citations

61
h-index

113
g-index

113
ext. papers

22,302
ext. citations

12.4
avg, IF

6.48
L-index

#	Paper	IF	Citations
106	Monocyte Trajectories Endotypes Are Associated With Worsening in Septic Patients.. <i>Frontiers in Immunology</i> , 2021 , 12, 795052	8.4	1
105	Herpes DNAemia and TTV Viraemia in Intensive Care Unit Critically Ill Patients: A Single-Centre Prospective Longitudinal Study. <i>Frontiers in Immunology</i> , 2021 , 12, 698808	8.4	1
104	Darwinian properties and their trade-offs in autocatalytic RNA reaction networks. <i>Nature Communications</i> , 2021 , 12, 842	17.4	5
103	The establishment of variant surface glycoprotein monoallelic expression revealed by single-cell RNA-seq of <i>Trypanosoma brucei</i> in the tsetse fly salivary glands. <i>PLoS Pathogens</i> , 2021 , 17, e1009904	7.6	7
102	RNA diversification by a self-reproducing ribozyme revealed by deep sequencing and kinetic modelling. <i>Chemical Communications</i> , 2021 , 57, 7517-7520	5.8	2
101	Metabolic cost of rapid adaptation of single yeast cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10660-10666	11.5	8
100	High-throughput single-cell activity-based screening and sequencing of antibodies using droplet microfluidics. <i>Nature Biotechnology</i> , 2020 , 38, 715-721	44.5	64
99	The Quantitative Assessment of the Secreted IgG Repertoire after Recall to Evaluate the Quality of Immunizations. <i>Journal of Immunology</i> , 2020 , 205, 1176-1184	5.3	6
98	Dynamic single-cell phenotyping of immune cells using the microfluidic platform DropMap. <i>Nature Protocols</i> , 2020 , 15, 2920-2955	18.8	24
97	Deep phenotypic characterization of immunization-induced antibacterial IgG repertoires in mice using a single-antibody bioassay. <i>Communications Biology</i> , 2020 , 3, 614	6.7	1
96	Ultrahigh-throughput screening enables efficient single-round oxidase remodelling. <i>Nature Catalysis</i> , 2019 , 2, 740-747	36.5	47
95	High-throughput single-cell ChIP-seq identifies heterogeneity of chromatin states in breast cancer. <i>Nature Genetics</i> , 2019 , 51, 1060-1066	36.3	180
94	Coupled catabolism and anabolism in autocatalytic RNA sets. <i>Nucleic Acids Research</i> , 2018 , 46, 9660-9666	10.1	22
93	Droplet-based microfluidic high-throughput screening of heterologous enzymes secreted by the yeast <i>Yarrowia lipolytica</i> . <i>Microbial Cell Factories</i> , 2017 , 16, 18	6.4	72
92	Synthesis of new hydrophilic rhodamine based enzymatic substrates compatible with droplet-based microfluidic assays. <i>Chemical Communications</i> , 2017 , 53, 5437-5440	5.8	16
91	Single-Virus Droplet Microfluidics for High-Throughput Screening of Neutralizing Epitopes on HIV Particles. <i>Cell Chemical Biology</i> , 2017 , 24, 751-757.e3	8.2	23
90	Single-cell deep phenotyping of IgG-secreting cells for high-resolution immune monitoring. <i>Nature Biotechnology</i> , 2017 , 35, 977-982	44.5	121

89	The REAnimation Low Immune Status Markers (REALISM) project: a protocol for broad characterisation and follow-up of injury-induced immunosuppression in intensive care unit (ICU) critically ill patients. <i>BMJ Open</i> , 2017 , 7, e015734	3	21
88	Emergence of a catalytic tetrad during evolution of a highly active artificial aldolase. <i>Nature Chemistry</i> , 2017 , 9, 50-56	17.6	184
87	Efficient laboratory evolution of computationally designed enzymes with low starting activities using fluorescence-activated droplet sorting. <i>Protein Engineering, Design and Selection</i> , 2016 , 29, 355-66	1.9	47
86	Lineage Tracking for Probing Heritable Phenotypes at Single-Cell Resolution. <i>PLoS ONE</i> , 2016 , 11, e0152395	3.95	22
85	Transient compartmentalization of RNA replicators prevents extinction due to parasites. <i>Science</i> , 2016 , 354, 1293-1296	33.3	76
84	High-throughput screening of filamentous fungi using nanoliter-range droplet-based microfluidics. <i>Scientific Reports</i> , 2016 , 6, 27223	4.9	85
83	Droplet-based microfluidics at the femtolitre scale. <i>Lab on A Chip</i> , 2015 , 15, 753-65	7.2	60
82	Activity-Fed Translation (AFT) Assay: A New High-Throughput Screening Strategy for Enzymes in Droplets. <i>ChemBioChem</i> , 2015 , 16, 1343-9	3.8	8
81	Using droplet-based microfluidics to improve the catalytic properties of RNA under multiple-turnover conditions. <i>Rna</i> , 2015 , 21, 458-69	5.8	47
80	Enhanced chemical synthesis at soft interfaces: a universal reaction-adsorption mechanism in microcompartments. <i>Physical Review Letters</i> , 2014 , 112, 028301	7.4	151
79	CotA laccase: high-throughput manipulation and analysis of recombinant enzyme libraries expressed in E. coli using droplet-based microfluidics. <i>Analyst, The</i> , 2014 , 139, 3314-23	5	56
78	Droplet-based microfluidics platform for ultra-high-throughput bioprospecting of cellulolytic microorganisms. <i>Chemistry and Biology</i> , 2014 , 21, 1722-32		65
77	Multiplex picodroplet digital PCR to detect KRAS mutations in circulating DNA from the plasma of colorectal cancer patients. <i>Clinical Chemistry</i> , 2013 , 59, 1722-31	5.5	377
76	Enhanced imine synthesis in water: from surfactant-mediated catalysis to host-guest mechanisms. <i>Chemical Communications</i> , 2013 , 49, 11332-4	5.8	13
75	New glycosidase substrates for droplet-based microfluidic screening. <i>Analytical Chemistry</i> , 2013 , 85, 9807-14	7.8	43
74	Single-cell analysis and sorting using droplet-based microfluidics. <i>Nature Protocols</i> , 2013 , 8, 870-91	18.8	834
73	Microfluidic Approaches for the Study of Emulsions: Transport of Solutes. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1530, 1		1
72	High-resolution dose-response screening using droplet-based microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 378-83	11.5	222

71	Microfluidic platform for combinatorial synthesis in picolitre droplets. <i>Lab on A Chip</i> , 2012 , 12, 1320-6	7.2	77
70	Dynamics of molecular transport by surfactants in emulsions. <i>Soft Matter</i> , 2012 , 8, 10618	3.6	115
69	Cell-free selection of domain antibodies by in vitro compartmentalization. <i>Methods in Molecular Biology</i> , 2012 , 911, 183-98	1.4	5
68	Selective droplet coalescence using microfluidic systems. <i>Lab on A Chip</i> , 2012 , 12, 1800-6	7.2	108
67	Teaching single-cell digital analysis using droplet-based microfluidics. <i>Analytical Chemistry</i> , 2012 , 84, 1202-9	7.8	45
66	A completely in vitro ultrahigh-throughput droplet-based microfluidic screening system for protein engineering and directed evolution. <i>Lab on A Chip</i> , 2012 , 12, 882-91	7.2	180
65	Functional single-cell hybridoma screening using droplet-based microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11570-5	11.5	184
64	Multiplex digital PCR: breaking the one target per color barrier of quantitative PCR. <i>Lab on A Chip</i> , 2011 , 11, 2167-74	7.2	223
63	Quantitative and sensitive detection of rare mutations using droplet-based microfluidics. <i>Lab on A Chip</i> , 2011 , 11, 2156-66	7.2	389
62	The Thermophilic CotA Laccase from <i>Bacillus subtilis</i> : Bioelectrocatalytic Evaluation of O ₂ Reduction in the Direct and Mediated Electron Transfer Regime. <i>Electroanalysis</i> , 2011 , 23, 1781-1789	3	23
61	New generation of amino coumarin methyl sulfonate-based fluorogenic substrates for amidase assays in droplet-based microfluidic applications. <i>Analytical Chemistry</i> , 2011 , 83, 2852-7	7.8	61
60	A competitive co-cultivation assay for cancer drug specificity evaluation. <i>Journal of Biomolecular Screening</i> , 2011 , 16, 818-24		4
59	Phosphotriesterase variants with high methylphosphonate activity and strong negative trade-off against phosphotriesters. <i>Protein Engineering, Design and Selection</i> , 2011 , 24, 151-9	1.9	17
58	Highest paraoxonase turnover rate found in a bacterial phosphotriesterase variant. <i>Protein Engineering, Design and Selection</i> , 2011 , 24, 209-11	1.9	10
57	Ultrahigh-throughput screening in drop-based microfluidics for directed evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4004-9	11.5	817
56	An automated two-phase microfluidic system for kinetic analyses and the screening of compound libraries. <i>Lab on A Chip</i> , 2010 , 10, 1302-7	7.2	84
55	Coupling the inhibition of viral transduction with a positive fluorescence signal. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010 , 13, 352-7	1.3	2
54	High-throughput screening of enzymes by retroviral display using droplet-based microfluidics. <i>Chemistry and Biology</i> , 2010 , 17, 229-35		74

53	Quantitative cell-based reporter gene assays using droplet-based microfluidics. <i>Chemistry and Biology</i> , 2010 , 17, 528-36		86
52	Miniaturization and parallelization of biological and chemical assays in microfluidic devices. <i>Chemistry and Biology</i> , 2010 , 17, 1052-65		109
51	Preparation of monodisperse emulsions by hydrodynamic size fractionation. <i>Applied Physics Letters</i> , 2009 , 95, 204103	3.4	28
50	A competition-based assay for the screening of species-specific antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , 2009 , 64, 62-8	5.1	5
49	Droplet-based microfluidic systems for high-throughput single DNA molecule isothermal amplification and analysis. <i>Analytical Chemistry</i> , 2009 , 81, 4813-21	7.8	213
48	Multi-step microfluidic droplet processing: kinetic analysis of an in vitro translated enzyme. <i>Lab on A Chip</i> , 2009 , 9, 2902-8	7.2	164
47	Kinetic aspects of emulsion stabilization by surfactants: a microfluidic analysis. <i>Langmuir</i> , 2009 , 25, 6088-93	7.3	154
46	A fast and efficient microfluidic system for highly selective one-to-one droplet fusion. <i>Lab on A Chip</i> , 2009 , 9, 2665-72	7.2	123
45	Fluorescence-activated droplet sorting (FADS): efficient microfluidic cell sorting based on enzymatic activity. <i>Lab on A Chip</i> , 2009 , 9, 1850-8	7.2	648
44	Reliable microfluidic on-chip incubation of droplets in delay-lines. <i>Lab on A Chip</i> , 2009 , 9, 1344-8	7.2	130
43	Microfluidic production of droplet pairs. <i>Langmuir</i> , 2008 , 24, 12073-6	4	50
42	Droplet-based microreactors for the synthesis of magnetic iron oxide nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6817-20	16.4	232
41	Droplet-based microfluidic platforms for the encapsulation and screening of Mammalian cells and multicellular organisms. <i>Chemistry and Biology</i> , 2008 , 15, 427-37		555
40	Drop-based microfluidic devices for encapsulation of single cells. <i>Lab on A Chip</i> , 2008 , 8, 1110-5	7.2	409
39	Droplets as microreactors for high-throughput biology. <i>ChemBioChem</i> , 2007 , 8, 263-72	3.8	122
38	Miniaturizing chemistry and biology in microdroplets. <i>Chemical Communications</i> , 2007 , 1773-88	5.8	155
37	Selective gene amplification. <i>Protein Engineering, Design and Selection</i> , 2007 , 20, 577-81	1.9	10
36	Miniaturising the laboratory in emulsion droplets. <i>Trends in Biotechnology</i> , 2006 , 24, 395-402	15.1	285

35	Analogues with fluorescent leaving groups for screening and selection of enzymes that efficiently hydrolyze organophosphorus nerve agents. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 246-55	8.3	70
34	High-throughput Screens and Selections of Enzyme-encoding Genes 2006 , 163-181		
33	Amplification of complex gene libraries by emulsion PCR. <i>Nature Methods</i> , 2006 , 3, 545-50	21.6	283
32	Directed evolution by in vitro compartmentalization. <i>Nature Methods</i> , 2006 , 3, 561-70	21.6	183
31	Determinants of cofactor binding to DNA methyltransferases: insights from a systematic series of structural variants of S-adenosylhomocysteine. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 152-61	3.9	16
30	High-throughput screening of enzyme libraries: in vitro evolution of a beta-galactosidase by fluorescence-activated sorting of double emulsions. <i>Chemistry and Biology</i> , 2005 , 12, 1291-300		168
29	High-throughput screens and selections of enzyme-encoding genes. <i>Current Opinion in Chemical Biology</i> , 2005 , 9, 210-6	9.7	170
28	New genotype-phenotype linkages for directed evolution of functional proteins. <i>Current Opinion in Structural Biology</i> , 2005 , 15, 472-8	8.1	109
27	Selection of ribozymes that catalyse multiple-turnover Diels-Alder cycloadditions by using in vitro compartmentalization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 16170-5	11.5	94
26	Altering the sequence specificity of HaeIII methyltransferase by directed evolution using in vitro compartmentalization. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 3-11	1.9	83
25	In vitro compartmentalization by double emulsions: sorting and gene enrichment by fluorescence activated cell sorting. <i>Analytical Biochemistry</i> , 2004 , 325, 151-7	3.1	137
24	Directed evolution of an extremely fast phosphotriesterase by in vitro compartmentalization. <i>EMBO Journal</i> , 2003 , 22, 24-35	13	223
23	Promiscuous methylation of non-canonical DNA sites by HaeIII methyltransferase. <i>Nucleic Acids Research</i> , 2002 , 30, 3880-5	20.1	28
22	Investigating the target recognition of DNA cytosine-5 methyltransferase HhaI by library selection using in vitro compartmentalisation. <i>Nucleic Acids Research</i> , 2002 , 30, 4937-44	20.1	53
21	Microbead display by in vitro compartmentalisation: selection for binding using flow cytometry. <i>FEBS Letters</i> , 2002 , 532, 455-8	3.8	83
20	Man-made enzymes—from design to in vitro compartmentalisation. <i>Current Opinion in Biotechnology</i> , 2000 , 11, 338-53	11.4	107
19	Interdomain interactions within the gene 3 protein of filamentous phage. <i>FEBS Letters</i> , 1999 , 463, 371-43.8		16
18	Man-made cell-like compartments for molecular evolution. <i>Nature Biotechnology</i> , 1998 , 16, 652-6	44.5	768

17	Strategies for selection of antibodies by phage display. <i>Current Opinion in Biotechnology</i> , 1998 , 9, 102-8	11.4	214
16	Small binding proteins selected from a combinatorial repertoire of knottins displayed on phage. <i>Journal of Molecular Biology</i> , 1998 , 277, 317-32	6.5	91
15	Microtubule minus ends can be labelled with a phage display antibody specific to alpha-tubulin. <i>Journal of Molecular Biology</i> , 1996 , 259, 325-30	6.5	52
14	Characterization of human variable domain antibody fragments against the U1 RNA-associated A protein, selected from a synthetic and patient-derived combinatorial V gene library. <i>European Journal of Immunology</i> , 1996 , 26, 629-39	6.1	43
13	Making antibodies by phage display technology. <i>Annual Review of Immunology</i> , 1994 , 12, 433-55	34.7	1355
12	In vitro assembly of repertoires of antibody chains on the surface of phage by renaturation. <i>Journal of Molecular Biology</i> , 1994 , 239, 68-78	6.5	67
11	Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires. <i>Nucleic Acids Research</i> , 1993 , 21, 2265-6	20.1	152
10	Production of human antibodies using bacteriophage. <i>Current Opinion in Immunology</i> , 1993 , 5, 263-7	7.8	41
9	By-passing immunization: building high affinity human antibodies by chain shuffling. <i>Nature Biotechnology</i> , 1992 , 10, 779-83	44.5	270
8	Making antibody fragments using phage display libraries. <i>Nature</i> , 1991 , 352, 624-8	50.4	1028
7	Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains. <i>Nucleic Acids Research</i> , 1991 , 19, 4133-7	20.1	918
6	By-passing immunization. Human antibodies from V-gene libraries displayed on phage. <i>Journal of Molecular Biology</i> , 1991 , 222, 581-97	6.5	1440
5	Phage antibodies: filamentous phage displaying antibody variable domains. <i>Nature</i> , 1990 , 348, 552-4	50.4	1954
4	Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> . <i>Nature</i> , 1989 , 341, 544-6	50.4	921
3	Effects of RNA secondary structure on alternative splicing of pre-mRNA: is folding limited to a region behind the transcribing RNA polymerase?. <i>Cell</i> , 1988 , 54, 393-401	56.2	248
2	Metabolic Cost of Rapid Adaptation of Single Yeast Cells		1
1	The establishment of variant surface glycoprotein monoallelic expression revealed by single-cell RNA-seq of <i>Trypanosoma brucei</i> in the tsetse fly salivary glands		1