John I Glass

List of Publications by Year
in descending order

63 papers	11,604 citations	109321 35 h-index	114465 63 g-index
63 all docs	63 docs citations	63 times ranked	10531 citing authors

#	Article	IF	Citations
1	Creation of a Bacterial Cell Controlled by a Chemically Synthesized Genome. Science, 2010, 329, 52-56.	12.6	2,177
2	A Whole-Cell Computational Model Predicts Phenotype from Genotype. Cell, 2012, 150, 389-401.	28.9	1,177
3	Complete Chemical Synthesis, Assembly, and Cloning of a Mycoplasma genitalium Genome. Science, 2008, 319, 1215-1220.	12.6	1,122
4	Design and synthesis of a minimal bacterial genome. Science, 2016, 351, aad6253.	12.6	1,077
5	Essential genes of a minimal bacterium. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 425-430.	7.1	806
6	Genome of the Bacterium Streptococcus pneumoniae Strain R6. Journal of Bacteriology, 2001, 183, 5709-5717.	2.2	717
7	Genome Sequence of Avery's Virulent Serotype 2 Strain D39 ofStreptococcus pneumoniaeand Comparison with That of Unencapsulated Laboratory Strain R6. Journal of Bacteriology, 2007, 189, 38-51.	2.2	429
8	Genome Transplantation in Bacteria: Changing One Species to Another. Science, 2007, 317, 632-638.	12.6	422
9	The complete sequence of the mucosal pathogen Ureaplasma urealyticum. Nature, 2000, 407, 757-762.	27.8	383
10	Creating Bacterial Strains from Genomes That Have Been Cloned and Engineered in Yeast. Science, 2009, 325, 1693-1696.	12.6	289
11	The Sorcerer II Global Ocean Sampling Expedition: Metagenomic Characterization of Viruses within Aquatic Microbial Samples. PLoS ONE, 2008, 3, e1456.	2.5	276
12	Essence of life: essential genes of minimal genomes. Trends in Cell Biology, 2011, 21, 562-568.	7.9	167
13	Synthetic Generation of Influenza Vaccine Viruses for Rapid Response to Pandemics. Science Translational Medicine, 2013, 5, 185ra68.	12.4	164
14	Cloning whole bacterial genomes in yeast. Nucleic Acids Research, 2010, 38, 2558-2569.	14.5	156
15	Sequencing Multimegabase-Template DNA with BigDye Terminatorâ€‰Chemistry. Genome Research, 1998, 8, 557-561.	5.5	153
16	A Metagenomic Framework for the Study of Airborne Microbial Communities. PLoS ONE, 2013, 8, e81862.	2.5	127
17	Molecular Methods for the Detection of Mycoplasma and Ureaplasma Infections in Humans. Journal of Molecular Diagnostics, 2012, 14, 437-450.	2.8	124
18	A Genome-Scale Metabolic Reconstruction of Mycoplasma genitalium, iPS189. PLoS Computational Biology, 2009, 5, e1000285.	3.2	119

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19	Bacterial antisense RNAs are mainly the product of transcriptional noise. Science Advances, 2016, 2, e1501363.	10.3	118
20	Small repeating units within the Ureaplasma urealyticum MB antigen gene encode serovar specificity and are associated with antigen size variation. Infection and Immunity, 1995, 63, 891-898.	2.2	109
21	Ureaplasma urealyticum biovar specificity and diversity are encoded in multiple-banded antigen gene. Journal of Clinical Microbiology, 1994, 32, 1464-1469.	3.9	103
22	Detection and Characterization of Human Ureaplasma Species and Serovars by Real-Time PCR. Journal of Clinical Microbiology, 2010, 48, 2715-2723.	3.9	89
23	A Structurally Distinct Human Mycoplasma Protein that Generically Blocks Antigen-Antibody Union. Science, 2014, 343, 656-661.	12.6	85
24	Extensive Horizontal Gene Transfer in Ureaplasmas from Humans Questions the Utility of Serotyping for Diagnostic Purposes. Journal of Clinical Microbiology, 2011, 49, 2818-2826.	3.9	68
25	Assembly of Large, High G+C Bacterial DNA Fragments in Yeast. ACS Synthetic Biology, 2012, 1, 267-273.	3.8	65
26	Direct transfer of whole genomes from bacteria to yeast. Nature Methods, 2013, 10, 410-412.	19.0	64
27	Discovery of a novel bicycloproline P2 bearing peptidyl Î±-ketoamide LY514962 as HCV protease inhibitor. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 251-256.	2.2	61
28	Synergistic Antiviral Activity of Human Interferon Combinations in the Hepatitis C Virus Replicon System. Journal of Interferon and Cytokine Research, 2003, 23, 247-257.	1.2	60
29	Sequence analysis of a complete 1.66 Mb Prochlorococcus marinus MED4 genome cloned in yeast. Nucleic Acids Research, 2012, 40, 10375-10383.	14.5	56
30	A systems biology tour de force for a nearâ€minimal bacterium. Molecular Systems Biology, 2009, 5, 330.	7.2	53
31	Sequence analysis of the chromosomal region around and within the V-1-encoding gene of Mycoplasma pulmonis: evidence for DNA inversion as a mechanism for V-1 variation. Infection and Immunity, 1996, 64, 472-479.	2.2	51
32	Mutations in ribosomal proteins and ribosomal RNA confer macrolide resistance in human Ureaplasma spp.. International Journal of Antimicrobial Agents, 2011, 37, 377-379.	2.5	41
33	Chromosomal Mutations Responsible for Fluoroquinolone Resistance in Ureaplasma Species in the United States. Antimicrobial Agents and Chemotherapy, 2012, 56, 2780-2783.	3.2	39
34	Transfer RNA Misidentification Scrambles Sense Codon Recoding. ChemBioChem, 2013, 14, 1967-1972.	2.6	39
35	P4 and P1â€² optimization of bicycloproline P2 bearing tetrapeptidyl Î±-ketoamides as HCV protease inhibitors. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5007-5011.	2.2	37
36	Transferring whole genomes from bacteria to yeast spheroplasts using entire bacterial cells to reduce DNA shearing. Nature Protocols, 2014, 9, 743-750.	12.0	37

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37	Targeted Chromosomal Knockouts in Mycoplasma pneumoniae. Applied and Environmental Microbiology, 2010, 76, 5297-5299.	3.1	32
38	Fluoroquinolone Resistance in Ureaplasma parvum in the United States. Journal of Clinical Microbiology, 2006, 44, 1590-1591.	3.9	31
39	Cytokine-Activated Natural Killer Cells Exert Direct Killing of Hepatoma Cells Harboring Hepatitis C Virus Replicons. Journal of Interferon and Cytokine Research, 2006, 26, 854-865.	1.2	30
40	RecA mediates MgpB and MgpC phase and antigenic variation in Mycoplasma genitalium, but plays a minor role in DNA repair. Molecular Microbiology, 2012, 85, 669-683.	2.5	30
41	Tuning Gene Activity by Inducible and Targeted Regulation of Gene Expression in Minimal Bacterial Cells. ACS Synthetic Biology, 2018, 7, 1538-1552.	3.8	30
42	P1 and P3 optimization of novel bicycloproline P2 bearing tetrapeptidyl Î±-ketoamide based HCV protease inhibitors. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 257-261.	2.2	29
43	Complete Genome Sequences of Mycoplasma leachii Strain PG50 ^T and the Pathogenic Mycoplasma mycoides subsp. mycoides Small Colony Biotype Strain Gladysdale. Journal of Bacteriology, 2012, 194, 4448-4449.	2.2	29
44	Bacterial genome reduction using the progressive clustering of deletions via yeast sexual cycling. Genome Research, 2015, 25, 435-444.	5.5	27
45	New Selectable Marker for Manipulating the Simple Genomes of Mycoplasma Species. Antimicrobial Agents and Chemotherapy, 2009, 53, 4429-4432.	3.2	26
46	Simultaneous non-contiguous deletions using large synthetic DNA and site-specific recombinases. Nucleic Acids Research, 2014, 42, e111-e111.	14.5	24
47	Streptococcus pneumoniae as a genomics platform for broad-spectrum antibiotic discovery. Current Opinion in Microbiology, 2002, 5, 338-342.	5.1	23
48	The costimulatory immunogen LPS induces the B-Cell clones that infiltrate transplanted human kidneys. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6036-6041.	7.1	23
49	Pyruvate Oxidase Is a Determinant of Avery's Rough Morphology. Journal of Bacteriology, 2004, 186, 8164-8171.	2.2	20
50	Random insertion and gene disruption via transposon mutagenesis of Ureaplasma parvum using a mini-transposon plasmid. International Journal of Medical Microbiology, 2014, 304, 1218-1225.	3.6	20
51	Novel P4 truncated tripeptidyl Î±-ketoamides as HCV protease inhibitors. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 263-266.	2.2	19
52	Efficient size-independent chromosome delivery from yeast to cultured cell lines. Nucleic Acids Research, 2017, 45, gkw1252.	14.5	18
53	P1 and P1; Optimization of [3,4]-Bicycloproline P2 Incorporated Tetrapeptidyl α-Ketoamide Based HCV Protease Inhibitors. Letters in Drug Design and Discovery, 2005, 2, 118-123.	0.7	17
54	Enhancement of Targeted Homologous Recombination in Mycoplasma mycoides subsp. capri by Inclusion of Heterologous recA. Applied and Environmental Microbiology, 2010, 76, 6951-6954.	3.1	17

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55	Different base per unit length ratios exist in single-stranded RNA and single-stranded DNA. Nucleic Acids Research, 1980, 8, 5739-5751.	14.5	16
56	Phylogenetic Analysis of the 16S-23S rRNA Intergenic Spacer Regions of the Genus Ureaplasma.. Journal of Veterinary Medical Science, 1996, 58, 191-195.	0.9	15
57	Genome Sequences of Mycoplasma alligatoris A21JP2 ^T and Mycoplasma crocodyli MP145 ^T. Journal of Bacteriology, 2011, 193, 2892-2893.	2.2	13
58	Genotypic Characterization of Ureaplasma Serovars from Clinical Isolates by Pulsed-Field Gel Electrophoresis. Journal of Clinical Microbiology, 2011, 49, 3325-3328.	3.9	13
59	Synthetic Genomics and the Construction of a Synthetic Bacterial Cell. Perspectives in Biology and Medicine, 2012, 55, 473-489.	0.5	13
60	Rescue of mutant fitness defects using in vitro reconstituted designer transposons in Mycoplasma mycoides. Frontiers in Microbiology, 2014, 5, 369.	3.5	12
61	Size Variation of a Major Serotype-Specific Antigen of Ureaplasma urealyticum. Annals of the New York Academy of Sciences, 1994, 730, 299-301.	3.8	10
62	Rescue of Infectious Sindbis Virus by Yeast Spheroplast-Mammalian Cell Fusion. Viruses, 2021, 13, 603.	3.3	4
63	Ureaplasma urealyticum: an opportunity for combinatorial genomics. Trends in Microbiology, 2001, 9, 163.	7.7	3