Bogumil J Karas

List of Publications by Year
in descending order

38 papers	3,222 citations	304743 22 h-index	330143 37 g-index
45 all docs	45 docs citations	45 times ranked	3907 citing authors

#	Article	IF	Citations
1	Towards synthetic diatoms: The Phaeodactylum tricornutum Pt-syn 1.0 project. Current Opinion in Green and Sustainable Chemistry, 2022, 35, 100611.	5.9	7
2	Conjugation-Based Genome Engineering in <i>Deinococcus radiodurans</i>. ACS Synthetic Biology, 2022, 11, 1068-1076.	3.8	5
3	Phosphate-regulated expression of the SARS-CoV-2 receptor-binding domain in the diatom Phaeodactylum tricornutum for pandemic diagnostics. Scientific Reports, 2022, 12, 7010.	3.3	10
4	Genetic requirements for cell division in a genomically minimal cell. Cell, 2021, 184, 2430-2440.e16.	28.9	66
5	Intragenic complementation at the <i>Lotus japonicus CELLULOSE SYNTHASE-LIKE D1</i> locus rescues root hair defects. Plant Physiology, 2021, 186, 2037-2050.	4.8	13
6	Designer endosymbionts: Converting free-living bacteria into organelles. Current Opinion in Systems Biology, 2020, 24, 41-50.	2.6	3
7	Rapid method for generating designer algal mitochondrial genomes. Algal Research, 2020, 50, 102014.	4.6	15
8	Plasmid-based complementation of large deletions in Phaeodactylum tricornutum biosynthetic genes generated by Cas9 editing. Scientific Reports, 2020, 10, 13879.	3.3	16
9	Cloning of Thalassiosira pseudonanaâ€™s Mitochondrial Genome in Saccharomyces cerevisiae and Escherichia coli. Biology, 2020, 9, 358.	2.8	3
10	Technological challenges and milestones for writing genomes. Science, 2019, 366, 310-312.	12.6	50
11	Trans-Kingdom Conjugation within Solid Media from Escherichia coli to Saccharomyces cerevisiae. International Journal of Molecular Sciences, 2019, 20, 5212.	4.1	9
12	Efficient inter-species conjugative transfer of a CRISPR nuclease for targeted bacterial killing. Nature Communications, 2019, 10, 4544.	12.8	78
13	Development of a Transformation Method for Metschnikowia borealis and other CUG-Serine Yeasts. Genes, 2019, 10, 78.	2.4	7
14	Designer Sinorhizobium meliloti strains and multi-functional vectors enable direct inter-kingdom DNA transfer. PLoS ONE, 2019, 14, e0206781.	2.5	21
15	Direct Transfer of a Mycoplasma mycoides Genome to Yeast Is Enhanced by Removal of the Mycoides Glycerol Uptake Factor Gene glpF. ACS Synthetic Biology, 2019, 8, 239-244.	3.8	10
16	An Expanded Plasmid-Based Genetic Toolbox Enables Cas9 Genome Editing and Stable Maintenance of Synthetic Pathways in <i>Phaeodactylum tricornutum</i>. ACS Synthetic Biology, 2018, 7, 328-338.	3.8	124
17	Carbonate-sensitive phytotransferrin controls high-affinity iron uptake in diatoms. Nature, 2018, 555, 534-537.	27.8	106
18	Delivery of the Cas9 or TevCas9 System into Phaeodactylum tricornutum via Conjugation of Plasmids from a Bacterial Donor. Bio-protocol, 2018, 8, e2974.	0.4	9

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19	Diatom centromeres suggest a mechanism for nuclear DNA acquisition. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6015-E6024.	7.1	62
20	Design and synthesis of a minimal bacterial genome. Science, 2016, 351, aad6253.	12.6	1,077
21	Designer diatom episomes delivered by bacterial conjugation. Nature Communications, 2015, 6, 6925.	12.8	249
22	Bacterial genome reduction using the progressive clustering of deletions via yeast sexual cycling. Genome Research, 2015, 25, 435-444.	5.5	27
23	Strategies for cloning and manipulating natural and synthetic chromosomes. Chromosome Research, 2015, 23, 57-68.	2.2	30
24	Rescue of mutant fitness defects using in vitro reconstituted designer transposons in Mycoplasma mycoides. Frontiers in Microbiology, 2014, 5, 369.	3.5	12
25	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
26	Assembly of eukaryotic algal chromosomes in yeast. Journal of Biological Engineering, 2013, 7, 30.	4.7	57
27	Direct transfer of whole genomes from bacteria to yeast. Nature Methods, 2013, 10, 410-412.	19.0	64
28	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
29	Cloning the <i>Acholeplasma laidlawii</i> PG-8A Genome in <i>Saccharomyces cerevisiae</i> as a Yeast Centromeric Plasmid. ACS Synthetic Biology, 2012, 1, 22-28.	3.8	43
30	Assembly of Large, High G+C Bacterial DNA Fragments in Yeast. ACS Synthetic Biology, 2012, 1, 267-273.	3.8	65
31	<i>Lotus japonicus symRKâ€•14</i> uncouples the cortical and epidermal symbiotic program. Plant Journal, 2011, 67, 929-940.	5.7	71
32	Conservation of <i>Lotus</i> and Arabidopsis Basic Helix-Loop-Helix Proteins Reveals New Players in Root Hair Development Â Â. Plant Physiology, 2009, 151, 1175-1185.	4.8	113
33	A Cytokinin Perception Mutant Colonized by Rhizobium in the Absence of Nodule Organogenesis. Science, 2007, 315, 101-104.	12.6	475
34	Genetics of Symbiosis in Lotus japonicus: Recombinant Inbred Lines, Comparative Genetic Maps, and Map Position of 35 Symbiotic Loci. Molecular Plant-Microbe Interactions, 2006, 19, 80-91.	2.6	94
35	Genetic Suppressors of the Lotus japonicus har1-1 Hypernodulation Phenotype. Molecular Plant-Microbe Interactions, 2006, 19, 1082-1091.	2.6	45
36	Genetic supressors of Lotus japonicus har1-1 hypernodulation show altered interactions with Glomus intraradices. Functional Plant Biology, 2006, 33, 749.	2.1	7

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37	Invasion of Lotus japonicus root hairless 1 by Mesorhizobium loti Involves the Nodulation Factor-Dependent Induction of Root Hairs. Plant Physiology, 2005, 137, 1331-1344.	4.8	63
38	Telomere-to-telomere genome assembly of <i>Phaeodactylum tricornutum</i>. PeerJ, 0, 10, e13607.	2.0	13