

Daisuke Kiga

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,345
citations

687220

13
h-index

377752

34
g-index

50
all docs

50
docs citations

50
times ranked

1140
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative analysis of three studies measuring fluorescence from engineered bacterial genetic constructs. PLoS ONE, 2021, 16, e0252263.	1.1	11
2	Robust estimation of bacterial cell count from optical density. Communications Biology, 2020, 3, 512.	2.0	86
3	Comparison between Effects of Retroactivity and Resource Competition upon Change in Downstream Reporter Genes of Synthetic Genetic Circuits. Life, 2019, 9, 30.	1.1	7
4	Enhancement of Binding Affinity of Folate to Its Receptor by Peptide Conjugation. International Journal of Molecular Sciences, 2019, 20, 2152.	1.8	9
5	Horizontal transfer of code fragments between protocells can explain the origins of the genetic code without vertical descent. Scientific Reports, 2018, 8, 3532.	1.6	13
6	Escherichia coli expression, purification, and refolding of human folate receptor $\hat{1}\pm$ (hFR $\hat{1}\pm$) and $\hat{1}^2$ (hFR $\hat{1}^2$). Protein Expression and Purification, 2018, 149, 17-22.	0.6	3
7	A Highly Bioactive Lys-Deficient IFN Leads to a Site-Specific Di-PEGylated IFN with Equivalent Bioactivity to That of Unmodified IFN- $\hat{1}\pm 2b$. ACS Synthetic Biology, 2018, 7, 2537-2546.	1.9	0
8	Constraint-based perturbation analysis with cluster Newton method: a case study of personalized parameter estimations with irinotecan whole-body physiologically based pharmacokinetic model. BMC Systems Biology, 2017, 11, 129.	3.0	9
9	A Bacterial Continuous Culture System Based on a Microfluidic Droplet Open Reactor. Analytical Sciences, 2016, 32, 61-66.	0.8	6
10	High-frequency Noise Attenuation of a Two-component System Responding to Short-pulse Input. , 2016, , ,		2
11	Two site genetic incorporation of varying length polyethylene glycol into the backbone of one peptide. Chemical Communications, 2015, 51, 14385-14388.	2.2	6
12	In vitro selection of a photoresponsive peptide aptamer to glutathione-immobilized microbeads. Journal of Bioscience and Bioengineering, 2015, 119, 137-139.	1.1	4
13	Synthetic Biology. , 2015, , 2449-2450.		0
14	Experimental Evolution of a Green Fluorescent Protein Composed of 19 Unique Amino Acids without Tryptophan. Origins of Life and Evolution of Biospheres, 2014, 44, 75-86.	0.8	1
15	Multiple Amino Acid-Excluded Genetic Codes for Protein Engineering Using Multiple Sets of tRNA Variants. ACS Synthetic Biology, 2014, 3, 140-144.	1.9	6
16	General Applicability of Synthetic Gene-Overexpression for Cell-Type Ratio Control via Reprogramming. ACS Synthetic Biology, 2014, 3, 638-644.	1.9	8
17	2P280 Effects of downstream reporter genes on synthetic genetic circuits(24. Mathematical) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TT 0.8 0		0
18	Effects of downstream genes on synthetic genetic circuits. BMC Systems Biology, 2014, 8, S4.	3.0	16

#	ARTICLE	IF	CITATIONS
19	An Observation Method for Autonomous Signaling-Mediated Synthetic Diversification in Escherichia coli. <i>Methods in Molecular Biology</i> , 2014, 1151, 69-74.	0.4	0
20	<i>Synthetic Biology</i> , 2014, , 1-2.		0
21	The number of amino acids in a genetic code. <i>RSC Advances</i> , 2013, 3, 12512.	1.7	5
22	Waddington Landscape Based Experimental Model of Phenotypic Diversification. <i>Seibutsu Butsuri</i> , 2013, 53, 319-320.	0.0	0
23	Cultivation of Synthetic Biology with the iGEM Competition. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2013, 17, 161-166.	0.5	0
24	Synthetic Biology and Dual Use. <i>Journal of Disaster Research</i> , 2013, 8, 698-704.	0.4	0
25	Tunability of the ratio of cell states after the synthetic diversification by the diversity generator. <i>Communicative and Integrative Biology</i> , 2012, 5, 393-394.	0.6	0
26	Simplification of the genetic code: restricted diversity of genetically encoded amino acids. <i>Nucleic Acids Research</i> , 2012, 40, 10576-10584.	6.5	18
27	An aptazyme-based molecular device that converts a small-molecule input into an RNA output. <i>Chemical Communications</i> , 2012, 48, 7556.	2.2	12
28	Design strategy for an initial state-independent diversity generator. <i>Chem-Bio Informatics Journal</i> , 2012, 12, 39-49.	0.1	0
29	RTRACS: A Modularized RNA-Dependent RNA Transcription System with High Programmability. <i>Accounts of Chemical Research</i> , 2011, 44, 1369-1379.	7.6	23
30	2SL-04 Tunable synthetic phenotypic diversification on Waddington's landscape through autonomous signaling(2SL Information processing of biological systems,The 49th Annual Meeting of the Tj ETQq0 0 0 rgBT /Overclock 10 of 50 297 T		
31	Tunable synthetic phenotypic diversification on Waddington's landscape through autonomous signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17969-17973.	3.3	38
32	Construction of a genetic AND gate under a new standard for assembly of genetic parts. <i>BMC Genomics</i> , 2010, 11, S16.	1.2	12
33	RNA Oscillator: Limit Cycle Oscillations based on Artificial Biomolecular Reactions. <i>New Generation Computing</i> , 2009, 27, 107-127.	2.5	8
34	Design and Numerical Analysis of RNA Oscillator. <i>Proceedings in Information and Communications Technology</i> , 2009, , 201-212.	0.2	1
35	A design and feasibility study of reactions comprising DNA molecular machine that walks autonomously by using a restriction enzyme. <i>Natural Computing</i> , 2008, 7, 303-315.	1.8	2
36	<i>Synthetic Biology</i> . <i>New Generation Computing</i> , 2008, 26, 347-364.	2.5	2

#	ARTICLE	IF	CITATIONS
37	Experiments and simulation models of a basic computation element of an autonomous molecular computing system. <i>Physical Review E</i> , 2008, 78, 041921.	0.8	40
38	2P280 Autonomous DNA computing in cell-sized liposome(Native and artificial) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,702 Td ₀ (biomemb	0.0	0
39	S0211 Molecular computing and molecular communication : synthetic approach using biomolecules(Molecular Computing and Molecular Communication: New Computing and) Tj ETQq1 1 0.784314 rgBTd/Overlock 10 Tf 50	0.0	0
40	1P335 Construction of in vitro proteosynthesis molecular automaton(Bioengineering,Poster) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	0.0	0
41	A Realization of DNA Molecular Machine That Walks Autonomously by Using a Restriction Enzyme. , 2007, , 54-65.		5
42	Cation-π Interaction in the Polyolefin Cyclization Cascade Uncovered by Incorporating Unnatural Amino Acids into the Catalytic Sites of Squalene Cyclase. <i>Journal of the American Chemical Society</i> , 2006, 128, 13184-13194.	6.6	72
43	DNA polymerase programmed with a hairpin DNA incorporates a multiple-instruction architecture into molecular computing. <i>BioSystems</i> , 2006, 83, 18-25.	0.9	25
44	Translation of "rare" Codons in a Cell-free Protein Synthesis System from Escherichia coli. <i>Journal of Structural and Functional Genomics</i> , 2006, 7, 31-36.	1.2	28
45	An engineered Escherichia coli tyrosyl-tRNA synthetase for site-specific incorporation of an unnatural amino acid into proteins in eukaryotic translation and its application in a wheat germ cell-free system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9715-9720.	3.3	163
46	Site-specific incorporation of an unnatural amino acid into proteins in mammalian cells. <i>Nucleic Acids Research</i> , 2002, 30, 4692-4699.	6.5	231
47	Shifted positioning of the anticodon nucleotide residues of amber suppressor tRNA species by Escherichia coli arginyl-tRNA synthetase. <i>FEBS Journal</i> , 2001, 268, 6207-6213.	0.2	12
48	Molecular Computation by DNA Hairpin Formation. <i>Science</i> , 2000, 288, 1223-1226.	6.0	363
49	State transitions by molecules. <i>BioSystems</i> , 1999, 52, 81-91.	0.9	94