

Ken Komiya

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

616
citations

1162889

8
h-index

839398

18
g-index

34
all docs

34
docs citations

34
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Computation by DNA Hairpin Formation. <i>Science</i> , 2000, 288, 1223-1226.	6.0	363
2	State transitions by molecules. <i>BioSystems</i> , 1999, 52, 81-91.	0.9	94
3	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
4	Measurement of microRNA with isothermal DNA amplification on fully automated immunoassay analyzers. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3789-3800.	1.9	19
5	Isothermal amplification of specific DNA molecules inside giant unilamellar vesicles. <i>Chemical Communications</i> , 2019, 55, 9084-9087.	2.2	17
6	Leak-free million-fold DNA amplification with locked nucleic acid and targeted hybridization in one pot. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 5708-5713.	1.5	16
7	Successive state transitions with I/O interface by molecules. <i>Lecture Notes in Computer Science</i> , 2001, , 17-26.	1.0	14
8	Quantitative design and experimental validation for a single-molecule DNA nanodevice transformable among three structural states. <i>Nucleic Acids Research</i> , 2010, 38, 4539-4546.	6.5	10
9	Displacement Whiplash PCR: Optimized Architecture and Experimental Validation. <i>Lecture Notes in Computer Science</i> , 2006, , 393-403.	1.0	10
10	Experimental validation and optimization of signal dependent operation in whiplash PCR. <i>Natural Computing</i> , 2010, 9, 207-218.	1.8	8
11	Cascading DNA Generation Reaction for Controlling DNA Nanomachines at a Physiological Temperature. <i>New Generation Computing</i> , 2015, 33, 213-229.	2.5	8
12	Branching dna machines based on transitions of hairpin structures. , 0, , .		7
13	A Realization of DNA Molecular Machine That Walks Autonomously by Using a Restriction Enzyme. , 2007, , 54-65.		5
14	Complexity analysis of the SAT engine: DNA algorithms as probabilistic algorithms. <i>Theoretical Computer Science</i> , 2002, 287, 59-71.	0.5	3
15	Engineering multistate DNA molecules: a tunable thermal band-pass filter. <i>Micro and Nano Letters</i> , 2016, 11, 595-601.	0.6	3
16	Experimental Validation of the Statistical Thermodynamic Model for Prediction of the Behavior of Autonomous Molecular Computers Based on DNA Hairpin Formation. <i>Lecture Notes in Computer Science</i> , 2006, , 428-438.	1.0	3
17	Experimental Validation of Signal Dependent Operation in Whiplash PCR. <i>Lecture Notes in Computer Science</i> , 2009, , 1-10.	1.0	3
18	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

#	ARTICLE	IF	CITATIONS
19	Monotonically controlling right linear grammars with unknown behaviors to output a target string. Theoretical Computer Science, 2019, 777, 387-408.	0.5	2
20	Analysis and design of a single-molecule DNA nanodevice for thermal band-pass filters. , 2016, , .		1
21	Reducing control alphabet size for the control of right linear grammars with unknown behaviors. Theoretical Computer Science, 2021, 862, 193-213.	0.5	1
22	Molecular Computing Machineries “ Computing Models and Wet Implementations. , 2012, , 1129-1184.		1
23	Monotone Control of R Systems. New Generation Computing, 2022, 40, 623-657.	2.5	1
24	1P316 DNA state machine driven by primer-targeted strand displacement(Bioengineering,Poster) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	0.0	0
25	An Implementation of Aqueous Memory Molecules with Light Responsive DNAs. , 2007, , .		0
26	1P-317 Signal dependent operation of a DNA state machine controlled by primer-targeted strand displacement(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S71.	0.0	0
27	2P-278 Thermal band pass filter implemented with a bistable DNA(Bioengineering,Oral) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 S150.	0.0	0
28	1P131 Transcription control by a synthetic thermal band pass filter implemented with a single DNA molecule(Nucleic acid:Structure & Property,The 48th Annual Meeting of the Biophysical Society of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.0	0
29	Title is missing!. Journal of the Robotics Society of Japan, 2010, 28, 1168-1171.	0.0	0
30	Autonomous DNA-Molecule Computing. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 700-705.	0.1	0
31	21pm2-F4 Construction of a DNA signal generator for directing DNA-responsive nanomachines. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2014, 2014.6, _21pm2-F4-_21pm2-F4.	0.0	0
32	21pm3-PM024 Experimental investigation of temperature-dependent walking behavior of a DNA nanomachine. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2014, 2014.6, _21pm3-PM0-_21pm3-PM0.	0.0	0