

# 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	Monotone Control of R Systems. <i>New Generation Computing</i> , 2022, 40, 623-657.	2.5	1
2	Reducing control alphabet size for the control of right linear grammars with unknown behaviors. <i>Theoretical Computer Science</i> , 2021, 862, 193-213.	0.5	1
3	Isothermal amplification of specific DNA molecules inside giant unilamellar vesicles. <i>Chemical Communications</i> , 2019, 55, 9084-9087.	2.2	17
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	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
6	Monotonically controlling right linear grammars with unknown behaviors to output a target string. <i>Theoretical Computer Science</i> , 2019, 777, 387-408.	0.5	2
7	Analysis and design of a single-molecule DNA nanodevice for thermal band-pass filters. , 2016, ,		1
8	Engineering multistate DNA molecules: a tunable thermal band-pass filter. <i>Micro and Nano Letters</i> , 2016, 11, 595-601.	0.6	3
9	Cascading DNA Generation Reaction for Controlling DNA Nanomachines at a Physiological Temperature. <i>New Generation Computing</i> , 2015, 33, 213-229.	2.5	8
10	21pm2-F4 Construction of a DNA signal generator for directing DNA-responsive nanomachines. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2014, 2014.6, _21pm2-F4-_21pm2-F4.	0.0	0
11	21pm3-PM024 Experimental investigation of temperature-dependent walking behavior of a DNA nanomachine. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2014, 2014.6, _21pm3-PM0-_21pm3-PM0.	0.0	0
12	Molecular Computing Machineries " Computing Models and Wet Implementations. , 2012, , 1129-1184.		1
13	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 ETQq1 1 0.784614 rgB0 /Overlock		
14	Experimental validation and optimization of signal dependent operation in whiplash PCR. <i>Natural Computing</i> , 2010, 9, 207-218.	1.8	8
15	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
16	Title is missing!. <i>Journal of the Robotics Society of Japan</i> , 2010, 28, 1168-1171.	0.0	0
17	Autonomous DNA-Molecule Computing. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2010, 46, 700-705.	0.1	0
18	2P-278 Thermal band pass filter implemented with a bistable DNA(Bioengineering,Oral) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (Pre S150.	0.0	0

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19	Experimental Validation of Signal Dependent Operation in Whiplash PCR. Lecture Notes in Computer Science, 2009, , 1-10.	1.0	3
20	A design and feasibility study of reactions comprising DNA molecular machine that walks autonomously by using a restriction enzyme. Natural Computing, 2008, 7, 303-315.	1.8	2
21	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
22	1P316 DNA state machine driven by primer-targeted strand displacement(Bioengineering,Poster) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50 6	0.0	0
23	An Implementation of Aqueous Memory Molecules with Light Responsive DNAs. , 2007, , .		0
24	A Realization of DNA Molecular Machine That Walks Autonomously by Using a Restriction Enzyme. , 2007, , 54-65.		5
25	DNA polymerase programmed with a hairpin DNA incorporates a multiple-instruction architecture into molecular computing. BioSystems, 2006, 83, 18-25.	0.9	25
26	Displacement Whiplash PCR: Optimized Architecture and Experimental Validation. Lecture Notes in Computer Science, 2006, , 393-403.	1.0	10
27	Experimental Validation of the Statistical Thermodynamic Model for Prediction of the Behavior of Autonomous Molecular Computers Based on DNA Hairpin Formation. Lecture Notes in Computer Science, 2006, , 428-438.	1.0	3
28	Complexity analysis of the SAT engine: DNA algorithms as probabilistic algorithms. Theoretical Computer Science, 2002, 287, 59-71.	0.5	3
29	Successive state transitions with I/O interface by molecules. Lecture Notes in Computer Science, 2001, , 17-26.	1.0	14
30	Molecular Computation by DNA Hairpin Formation. Science, 2000, 288, 1223-1226.	6.0	363
31	State transitions by molecules. BioSystems, 1999, 52, 81-91.	0.9	94
32	Branching dna machines based on transitions of hairpin structures. , 0, , .		7