

# Hiroyuki Asanuma

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

330  
citations

933447

10  
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888059

17  
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28  
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28  
docs citations

28  
times ranked

276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Renewable DNA Proportional-Integral Controller with Photoresponsive Molecules. <i>Micromachines</i> , 2022, 13, 193.	2.9	5
2	Color-Changing Fluorescent Barcode Based on Strand Displacement Reaction Enables Simple Multiplexed Labeling. <i>Journal of the American Chemical Society</i> , 2022, 144, 1572-1579.	13.7	17
3	Xeno nucleic acids (XNAs) having non-ribose scaffolds with unique supramolecular properties. <i>Chemical Communications</i> , 2022, 58, 3993-4004.	4.1	15
4	Methyl group configuration on acyclic threoninol nucleic acids (aTNA) impacts supramolecular properties. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 4115-4122.	2.8	3
5	Orthogonal Amplification Circuits Composed of Acyclic Nucleic Acids Enable RNA Detection. <i>Journal of the American Chemical Society</i> , 2022, 144, 5887-5892.	13.7	11
6	Cooperative cargo transportation by a swarm of molecular machines. <i>Science Robotics</i> , 2022, 7, eabm0677.	17.6	28
7	Dual Crosslinking Photo-switches for Orthogonal Photo-control of Hybridization Between Serinol Nucleic Acid and RNA. <i>Chemistry - A European Journal</i> , 2021, 27, 4599-4604.	3.3	11
8	Light-Regulated Liquid-Liquid Phase Separation for Spatiotemporal Protein Recruitment and Cell Aggregation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5652-5659.	8.0	7
9	Nonenzymatic polymerase-like template-directed synthesis of acyclic l-threoninol nucleic acid. <i>Nature Communications</i> , 2021, 12, 804.	12.8	11
10	A Pyrene-Modified Serinol Nucleic Acid Nanostructure Converts the Chirality of Threoninol Nucleic Acids into Circularly Polarized Luminescence Signals. <i>Chemistry - A European Journal</i> , 2021, 27, 14582-14585.	3.3	10
11	A helical amplification system composed of artificial nucleic acids. <i>Chemical Science</i> , 2021, 12, 1656-1660.	7.4	6
12	A Quencher-Free Linear Probe from Serinol Nucleic Acid with a Fluorescent Uracil Analogue. <i>ChemBioChem</i> , 2020, 21, 120-128.	2.6	9
13	Intrastrand backbone-nucleobase interactions stabilize unwound right-handed helical structures of heteroduplexes of L-aTNA/RNA and SNA/RNA. <i>Communications Chemistry</i> , 2020, 3, .	4.5	9
14	Photo-regulated trajectories of gliding microtubules conjugated with DNA. <i>Chemical Communications</i> , 2020, 56, 7953-7956.	4.1	11
15	A triplex-forming linear probe for sequence-specific detection of duplex DNA with high sensitivity and affinity. <i>Chemical Communications</i> , 2020, 56, 5358-5361.	4.1	10
16	Photo-regulatable DNA isothermal amplification by template-mediated ligation. <i>Chemical Communications</i> , 2019, 55, 1080-1083.	4.1	2
17	Selective binding of nucleosides to gapped DNA duplex revealed by orientation and distance dependence of FRET. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 6786-6789.	2.8	7
18	8-Pyrenylvinyl Adenine Controls Reversible Duplex Formation between Serinol Nucleic Acid and RNA by [2 + 2] Photocycloaddition. <i>Journal of the American Chemical Society</i> , 2019, 141, 9485-9489.	13.7	34

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19	<i>cis</i> → <i>trans</i> Off of DNA Hybridization with Alkylthioazobenzene on L-Threoninol Responding to Visible Light. ChemPhotoChem, 2019, 3, 418-424.	3.0	15
20	Orthogonally Photocontrolled Non-Autonomous DNA Walker. Angewandte Chemie - International Edition, 2019, 58, 6948-6951.	13.8	66
21	Orthogonally Photocontrolled Non-Autonomous DNA Walker. Angewandte Chemie, 2019, 131, 7022-7025.	2.0	18
22	Isothermal double-cycle catalytic system using DNAzyme and RNase H for the highly selective one-pot detection of oligonucleotides. Analyst, The, 2019, 144, 2773-2779.	3.5	5
23	Quantitative evaluation of energy migration between identical chromophores enabled by breaking symmetry. Communications Chemistry, 2018, 1, .	4.5	19