Hiroyuki Asanuma

List of Publications by Year
in descending order

23	330	933447 10	888059 17
papers	citations	h-index	g-index

28	28	28	276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Orthogonally Photocontrolled Nonâ€Autonomous DNA Walker. Angewandte Chemie - International Edition, 2019, 58, 6948-6951.	13.8	66
2	8-Pyrenylvinyl Adenine Controls Reversible Duplex Formation between Serinol Nucleic Acid and RNA by [2 + 2] Photocycloaddition. Journal of the American Chemical Society, 2019, 141, 9485-9489.	13.7	34
3	Cooperative cargo transportation by a swarm of molecular machines. Science Robotics, 2022, 7, eabm0677.	17.6	28
4	Quantitative evaluation of energy migration between identical chromophores enabled by breaking symmetry. Communications Chemistry, 2018, 1, .	4.5	19
5	Orthogonally Photocontrolled Nonâ€Autonomous DNA Walker. Angewandte Chemie, 2019, 131, 7022-7025.	2.0	18
6	Color-Changing Fluorescent Barcode Based on Strand Displacement Reaction Enables Simple Multiplexed Labeling. Journal of the American Chemical Society, 2022, 144, 1572-1579.	13.7	17
7	cisâ€On/transâ€Off of DNA Hybridization with Alkylthioâ€azobenzene on Lâ€Threoninol Responding to Visible Light. ChemPhotoChem, 2019, 3, 418-424.	3.0	15
8	Xeno nucleic acids (XNAs) having non-ribose scaffolds with unique supramolecular properties. Chemical Communications, 2022, 58, 3993-4004.	4.1	15
9	Photo-regulated trajectories of gliding microtubules conjugated with DNA. Chemical Communications, 2020, 56, 7953-7956.	4.1	11
10	Dual Crosslinking Photoâ€Switches for Orthogonal Photoâ€Control of Hybridization Between Serinol Nucleic Acid and RNA. Chemistry - A European Journal, 2021, 27, 4599-4604.	3.3	11
11	Nonenzymatic polymerase-like template-directed synthesis of acyclic l-threoninol nucleic acid. Nature Communications, 2021, 12, 804.	12.8	11
12	Orthogonal Amplification Circuits Composed of Acyclic Nucleic Acids Enable RNA Detection. Journal of the American Chemical Society, 2022, 144, 5887-5892.	13.7	11
13	A triplex-forming linear probe for sequence-specific detection of duplex DNA with high sensitivity and affinity. Chemical Communications, 2020, 56, 5358-5361.	4.1	10
14	A Pyreneâ€Modified Serinol Nucleic Acid Nanostructure Converts the Chirality of Threoninol Nucleic Acids into Circularly Polarized Luminescence Signals. Chemistry - A European Journal, 2021, 27, 14582-14585.	3.3	10
15	A Quencherâ€Free Linear Probe from Serinol Nucleic Acid with a Fluorescent Uracil Analogue. ChemBioChem, 2020, 21, 120-128.	2.6	9
16	Intrastrand backbone-nucleobase interactions stabilize unwound right-handed helical structures of heteroduplexes of L-aTNA/RNA and SNA/RNA. Communications Chemistry, 2020, 3, .	4.5	9
17	Selective binding of nucleosides to gapped DNA duplex revealed by orientation and distance dependence of FRET. Organic and Biomolecular Chemistry, 2019, 17, 6786-6789.	2.8	7
18	Light-Regulated Liquidâ€“Liquid Phase Separation for Spatiotemporal Protein Recruitment and Cell Aggregation. ACS Applied Materials & Interfaces, 2021, 13, 5652-5659.	8.0	7

#	Article	IF	Citations
19	A helical amplification system composed of artificial nucleic acids. Chemical Science, 2021, 12, 1656-1660.	7.4	6
20	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
21	Renewable DNA Proportional-Integral Controller with Photoresponsive Molecules. Micromachines, 2022, 13, 193.	2.9	5
22	Methyl group configuration on acyclic threoninol nucleic acids (aTNAs) impacts supramolecular properties. Organic and Biomolecular Chemistry, 2022, 20, 4115-4122.	2.8	3
23	Photo-regulatable DNA isothermal amplification by template-mediated ligation. Chemical Communications, 2019, 55, 1080-1083.	4.1	2