

Katsuhiko Matsumoto

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

782
citations

623188

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752256

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all docs

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docs citations

25
times ranked

1118
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Involvement of Ca ²⁺ -Dependent Hyperpolarization in Sleep Duration in Mammals. <i>Neuron</i> , 2016, 90, 70-85. | 3.8 | 149 |
| 2 | Advanced CUBIC tissue clearing for whole-organ cell profiling. <i>Nature Protocols</i> , 2019, 14, 3506-3537. | 5.5 | 127 |
| 3 | Knockout-Rescue Embryonic Stem Cell-Derived Mouse Reveals Circadian-Period Control by Quality and Quantity of CRY1. <i>Molecular Cell</i> , 2017, 65, 176-190. | 4.5 | 72 |
| 4 | Mass spectrometry-based absolute quantification reveals rhythmic variation of mouse circadian clock proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3461-7. | 3.3 | 69 |
| 5 | Tissue clearing. <i>Nature Reviews Methods Primers</i> , 2021, 1, . | 11.8 | 56 |
| 6 | Pyrene-labeled deoxyguanosine as a fluorescence sensor to discriminate single and double stranded DNA structures: Design of ends free molecular beacons. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6392-6395. | 1.0 | 40 |
| 7 | Design and synthesis of highly solvatochromic fluorescent 2'-deoxyguanosine and 2'-deoxyadenosine analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 1275-1278. | 1.0 | 38 |
| 8 | Ends free and self-quenched molecular beacon with pyrene labeled pyrrolocytidine in the middle of the stem. <i>Tetrahedron</i> , 2009, 65, 934-939. | 1.0 | 33 |
| 9 | C8-alkynyl- and alkylamino substituted 2'-deoxyguanosines: a universal linker for nucleic acids modification. <i>Tetrahedron</i> , 2008, 64, 3578-3588. | 1.0 | 31 |
| 10 | Design of environmentally sensitive fluorescent 2'-deoxyguanosine containing arylethynyl moieties: Distinction of thymine base by base-discriminating fluorescent (BDF) probe. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 2817-2820. | 1.0 | 31 |
| 11 | Triazolyl Donor/Acceptor Chromophore Decorated Unnatural Nucleosides and Oligonucleotides with Duplex Stability Comparable to That of a Natural Adenine/Thymine Pair. <i>Journal of Organic Chemistry</i> , 2013, 78, 278-291. | 1.7 | 31 |
| 12 | Singly and doubly labeled base-discriminating fluorescent oligonucleotide probes containing oxo-pyrene chromophore. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 3227-3230. | 1.0 | 30 |
| 13 | Dual-labeled oligonucleotide probe for sensing adenosine via FRET: A novel alternative to SNPs genotyping. <i>Chemical Communications</i> , 2007, , 2133. | 2.2 | 18 |
| 14 | Fluorescence switching of photochromic vinylpyrene-substituted 2'-deoxyguanosine. <i>Tetrahedron Letters</i> , 2009, 50, 1403-1406. | 0.7 | 18 |
| 15 | Whole-organ analysis of TGF- β -mediated remodelling of the tumour microenvironment by tissue clearing. <i>Communications Biology</i> , 2021, 4, 294. | 2.0 | 14 |
| 16 | Fluorescent nucleosides with "on/off" switching function, pH-responsive fluorescent uridine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2753-2756. | 1.0 | 10 |
| 17 | A Peptide Nucleic Acid (PNA) Heteroduplex Probe Containing an Inosine-Cytosine Base Pair Discriminates a Single-Nucleotide Difference in RNA. <i>Chemistry - A European Journal</i> , 2013, 19, 5034-5040. | 1.7 | 8 |
| 18 | Design of an ultimate quencher free molecular beacon containing pyrrolocytidine-guanine base pair. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 361-362. | 0.3 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Non-Enzymatic DNA Cleavage Reaction Induced by 5-Ethynyluracil in Methylamine Aqueous Solution and Application to DNA Concatenation. PLoS ONE, 2014, 9, e92369. | 1.1 | 3 |
| 20 | Fluorometric sensing of conformational switching of DNA; The use of fluorescence labeled C8-alkylamino substituted 2'-deoxyguanosine. Nucleic Acids Symposium Series, 2008, 52, 357-358. | 0.3 | 1 |
| 21 | Synthesis of C8-alkylamino substituted 2'-deoxyguanosine. Nucleic Acids Symposium Series, 2007, 51, 147-148. | 0.3 | 0 |
| 22 | Design of extremely facile 3'- and 5'- ends free molecular beacons using C8 alkylamino substituted 2'-deoxyguanosine. Nucleic Acids Symposium Series, 2009, 53, 141-142. | 0.3 | 0 |
| 23 | Photo-switching of vinylpyrene-substituted 2'-deoxyguanosine and its application. Nucleic Acids Symposium Series, 2009, 53, 193-194. | 0.3 | 0 |