

# Takayuki Shibata

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

526  
citations

687363

13  
h-index

677142

22  
g-index

48  
all docs

48  
docs citations

48  
times ranked

708  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Inhibition of HIV-1 protease expression in T cells owing to DNA aptamer-mediated specific delivery of siRNA. <i>European Journal of Medicinal Chemistry</i> , 2012, 56, 396-399.   | 5.5  | 62        |
| 2  | Amino-functionalized DNA: the properties of C5-amino-alkyl substituted 2'-deoxyuridines and their application in DNA triplex formation. <i>Nucleic Acids Research</i> , 2005, 33, 1362-1371.   | 14.5 | 50        |
| 3  | Selective and facile assay of human immunodeficiency virus protease activity by a novel fluorogenic reaction. <i>Analytical Biochemistry</i> , 2010, 397, 197-201.   | 2.4  | 49        |
| 4  | A selective fluorescence reaction for peptides and chromatographic analysis. <i>Peptides</i> , 2008, 29, 356-363.  | 2.4  | 40        |
| 5  | Novel synthesis of O6-alkylguanine containing oligodeoxyribonucleotides as substrates for the human DNA repair protein, O6-methylguanine DNA methyltransferase (MGMT). <i>Nucleic Acids Research</i> , 2006, 34, 1884-1891.            | 14.5 | 28        |
| 6  | A novel DNA damage recognition protein in <i>Schizosaccharomyces pombe</i> . <i>Nucleic Acids Research</i> , 2006, 34, 2347-2354.  | 14.5 | 26        |
| 7  | Chemiluminescence detection of telomere DNA in human cells on a membrane by using fluorescein-5-isothiocyanate-labeled primers. <i>Analytical Biochemistry</i> , 2011, 413, 50-54.   | 2.4  | 25        |
| 8  | Dendrimer-like polymeric DNAs as chemiluminescence probes for amplified detection of telomere DNA on a solid-phase membrane. <i>Chemical Communications</i> , 2014, 50, 859-861.   | 4.1  | 20        |
| 9  | Fluorescence assay of dihydroorotate dehydrogenase that may become a cancer biomarker. <i>Scientific Reports</i> , 2017, 7, 40670.   | 3.3  | 18        |
| 10 | Amplified and selective assay of collagens by enzymatic and fluorescent reactions. <i>Scientific Reports</i> , 2014, 4, 4950.  | 3.3  | 16        |
| 11 | Facile detection of proteins on a solid-phase membrane by direct binding of dextran-based luminol- $\alpha$ -biotin chemiluminescent polymer. <i>Talanta</i> , 2009, 79, 700-705.  | 5.5  | 15        |
| 12 | Aptamer-Mediated Chemiluminescence Detection of Prion Protein on a Membrane Using Trimethoxyphenylglyoxal. <i>Analytical Sciences</i> , 2010, 26, 645-647.   | 1.6  | 14        |
| 13 | A novel fluorescence reaction for N-terminal Ser-containing peptides and its application to assay caspase activity. <i>Analytical Biochemistry</i> , 2013, 433, 79-85.   | 2.4  | 14        |
| 14 | Insights into the DNA stabilizing contributions of a bicyclic cytosine analogue: crystal structures of DNA duplexes containing 7,8-dihydropyrido [2,3- <i>d</i> ]pyrimidin-2-one. <i>Nucleic Acids Research</i> , 2010, 38, 6737-6745. | 14.5 | 12        |
| 15 | Fluorescence detection of amino acids in the postcleavage conversions for manual sequencing of a peptide. <i>Analytical Biochemistry</i> , 2008, 374, 423-425.   | 2.4  | 11        |
| 16 | Facile Assay of Telomerase Activity Utilizing a DNA-detectable Chemiluminogenic Reagent. <i>Analytical Sciences</i> , 2008, 24, 471-475.   | 1.6  | 11        |
| 17 | Alkaline phosphatase-labeled macromolecular probe for sensitive chemiluminescence detection of proteins on a solid-phase membrane. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1211-1217.                               | 3.7  | 11        |
| 18 | Sensitive and Selective Determination of Orotic Acid in Biological Specimens Using a Novel Fluorogenic Reaction. <i>Journal of Fluorescence</i> , 2015, 25, 1005-1011.   | 2.5  | 11        |

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|----|--|-----|-----------|
| 19 | A novel and specific fluorescence reaction for uracil. <i>Analytica Chimica Acta</i> , 2010, 674, 234-238.   | 5.4 | 9         |
| 20 | Selective and sensitive determination of peptides using 3,4-dihydroxyphenylacetic acid as a fluorogenic reagent. <i>Analytica Chimica Acta</i> , 2012, 721, 162-166.   | 5.4 | 9         |
| 21 | Chemiluminescence-imaging detection of DNA on a solid-phase membrane by using a peroxidase-labeled macromolecular probe. <i>Talanta</i> , 2015, 139, 138-142.  | 5.5 | 8         |
| 22 | The syntheses and properties of tricyclic pyrrolo[2,3-d]pyrimidine analogues of S6-methylthioguanine and O6-methylguanine. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1723.  | 2.8 | 7         |
| 23 | Fluorometric assay for phenotypic differentiation of drug-resistant HIV mutants. <i>Scientific Reports</i> , 2015, 5, 10323.   | 3.3 | 7         |
| 24 | 7,8-Dihydropyrido[2,3-d]pyrimidin-2-one; a bicyclic cytosine analogue capable of enhanced stabilisation of DNA duplexes. <i>Chemical Communications</i> , 2006, , 3516.  | 4.1 | 6         |
| 25 | Sensitive Chemiluminescence Detection of Prion Protein on a Membrane by Using a Peroxidase-Labeled Dextran Probe. <i>Analytical Sciences</i> , 2011, 27, 715.  | 1.6 | 6         |
| 26 | NOVEL CLASS OF DNA BINDING MOTIFS BASED ON BISTETRAHYDROFURAN AND BISFURAN SKELETON WITH LONG ALKYL CHAINS. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001, 20, 551-558.   | 1.1 | 5         |
| 27 | A Novel Fluorometric Method for the Selective Determination of Pro-Gly and Pro-Gly-Pro. <i>International Journal of Peptide Research and Therapeutics</i> , 2014, 20, 441-446.   | 1.9 | 5         |
| 28 | Delivery of siRNA using siRNA/cationic vector complexes encapsulated in dendrimer-like polymeric DNAs. <i>RSC Advances</i> , 2015, 5, 32775-32785.   | 3.6 | 5         |
| 29 | The Synthesis and Properties of Tricyclic Analogues of <b>S<sup>6</sup></b> Methylthioguanine and <b>O<sup>6</sup></b> -Methylguanine. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 1099-1102.  | 1.1 | 4         |
| 30 | Carbon Nanofiber-based Luminol-biotin Probe for Sensitive Chemiluminescence Detection of Protein. <i>Analytical Sciences</i> , 2014, 30, 1051-1056.  | 1.6 | 3         |
| 31 | Selective cross-linking behavior of oligodeoxyribonucleotides containing 2'-O <sup>6</sup> -N <sup>4</sup> -(4,5',8-trimethylpsoralen-4'-ylmethylcarbamoyl)adenosine to mutant H-ras DNA. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020, 39, 119-130. | 1.1 | 3         |
| 32 | Novel post DNA synthesis chemistry for preparing oligonucleotides containing O6-modified purines. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 23-24.   | 0.3 | 2         |
| 33 | Diimine ligand as a novel chemiluminescence enhancer of luminol-containing compounds. <i>Talanta</i> , 2009, 77, 1761-1766.  | 5.5 | 2         |
| 34 | Alginate acid-based macromolecular chemiluminescent probe for universal protein assay on a solid-phase membrane. <i>Analyst</i> , 2010, 135, 2894.   | 3.5 | 2         |
| 35 | Selective, sensitive and fluorometric determination of urinary cytosine with 4-trifluoromethylbenzamidoxime and N,N-dimethylformamide. <i>Clinica Chimica Acta</i> , 2014, 429, 123-128.   | 1.1 | 2         |
| 36 | Sensitive and selective determination of peptides, PG and PGP, using a novel fluorogenic reagent 4-chlorobenzene-1,2-diol. <i>Chemical Papers</i> , 2015, 69, .  | 2.2 | 2         |

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|----|--|-----|-----------|
| 37 | Facile preparation of streptavidin-coated sephadex beads and their application to chemiluminescence detection of a target DNA. <i>Mikrochimica Acta</i> , 2015, 182, 495-503.                      | 5.0 | 2         |
| 38 | Simultaneous assay for protease activities of hepatitis C virus and human immunodeficiency virus based on fluorescence detection. <i>Scientific Reports</i> , 2019, 9, 9150.                       | 3.3 | 2         |
| 39 | Selective FL Quenching or Enhancing of Diimine Ligands by Guanine. <i>Journal of Fluorescence</i> , 2013, 23, 853-857.   | 2.5 | 1         |
| 40 | Spectrofluorometric Assays of Human Collagenase Activity Using Native Collagen and Acetyl-Peptide Substrates. <i>Advances in Enzyme Research</i> , 2015, 03, 19-29.                                | 1.6 | 1         |
| 41 | Crystal structures of DNA duplexes stabilized by bicyclic-C residues. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 127-128.   | 0.3 | 0         |
| 42 | A manual sequence method of peptides and phosphopeptides using 4-(1-cyanoisoindolyl)phenylisothiocyanate. <i>Journal of Chromatography A</i> , 2011, 1218, 3757-3762.                              | 3.7 | 0         |
| 43 | Facile and Selective Determination of Dipeptides Using 3-Methylcatechol as a Novel Fluorogenic Reagent. <i>International Journal of Peptide Research and Therapeutics</i> , 2019, 25, 583-589.     | 1.9 | 0         |
| 44 | A Facile Method for the Quantification of Urinary Uracil Concentration by a Uracil-Specific Fluorescence Derivatization Reaction. <i>Chemical and Pharmaceutical Bulletin</i> , 2021, 69, 768-772. | 1.3 | 0         |
| 45 | Chemistry and Clinical Study in Concert. <i>Kitakanto Medical Journal</i> , 2019, 69, 161-162.   | 0.0 | 0         |