Shinobu Sato

List of Publications by Year in descending order

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69	896	471061	552369
papers	citations	17 h-index	26 g-index

70	70	70	876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrochemical Telomerase Assay with Ferrocenylnaphthalene Diimide as a Tetraplex DNA-Specific Binder. Analytical Chemistry, 2005, 77, 7304-7309.	3.2	79
2	PCR-Free Telomerase Assay Using Chronocoulometry Coupled with Hexaammineruthenium(III) Chloride. Analytical Chemistry, 2012, 84, 1772-1775.	3.2	47
3	Linker effect of ferrocenylnaphthalene diimide ligands in the interaction with double stranded DNA. Journal of Organometallic Chemistry, 2008, 693, 1177-1185.	0.8	41
4	Supramolecular Complex Formation by Î²-Cyclodextrin and Ferrocenylnaphthalene Diimide-intercalated Double Stranded DNA and Improved Electrochemical Gene Detection. Molecules, 2005, 10, 693-707.	1.7	38
5	Design of tetraplex specific ligands: cyclic naphthalene diimide. Chemical Communications, 2014, 50, 5967-5969.	2.2	38
6	Oral Cancer Diagnosis via a Ferrocenylnaphthalene Diimideâ€“Based Electrochemical Telomerase Assay. Clinical Chemistry, 2013, 59, 289-295.	1.5	36
7	A Selective G-Quadruplex DNA-Stabilizing Ligand Based on a Cyclic Naphthalene Diimide Derivative. Molecules, 2015, 20, 10963-10979.	1.7	35
8	Ferrocenylnaphthalene diimide-based electrochemical detection of methylated gene. Analytica Chimica Acta, 2006, 578, 82-87.	2.6	33
9	Chemical Modulation of DNA Replication along G-Quadruplex Based on Topology-Dependent Ligand Binding. Journal of the American Chemical Society, 2021, 143, 16458-16469.	6.6	31
10	Electrochemical gene detection based on supramolecular complex formation by ferrocenyl-Î²-cyclodextrin and adamantylnaphthalene diimide bound to double stranded DNA. Journal of Organometallic Chemistry, 2004, 689, 4722-4728.	0.8	26
11	Detection of an aberrant methylation of CDH4 gene in PCR product by ferrocenylnaphthalene diimide-based electrochemical hybridization assay. Analytica Chimica Acta, 2012, 715, 42-48.	2.6	25
12	Electrochemical DNA Analysis with a Supramolecular Assembly of Naphthalene Diimide, Ferrocene, and Î²-Cyclodextrin. Analytical Chemistry, 2011, 83, 7290-7296.	3.2	24
13	Highly Sensitive Nuclease Assays Based on Chemically Modified DNA or RNA. Sensors, 2014, 14, 12437-12450.	2.1	24
14	Direct Modification of mRNA by Ferrocenyl Carbodiimide and Its Application to Electrochemical Detection of mRNA. Analytical Sciences, 2007, 23, 115-119.	0.8	21
15	Interactions of cyclic and non-cyclic naphthalene diimide derivatives with different nucleic acids. Bioorganic and Medicinal Chemistry, 2014, 22, 2593-2601.	1.4	19
16	Ferrocenyl naphthalene diimide can bind to DNAÂ·RNA hetero duplex: potential use in an electrochemical detection of mRNA expression. Journal of Organometallic Chemistry, 2001, 637-639, 476-483.	0.8	18
17	Electrochemical detection of aberrant methylated gene using naphthalene diimide derivative carrying four ferrocene moieties. Journal of Organometallic Chemistry, 2010, 695, 1858-1862.	0.8	18
18	Cyclic Naphthalene Diimide Dimer with a Strengthened Ability to Stabilize Dimeric Gâ€Quadruplex. Chemistry - A European Journal, 2019, 25, 8691-8695.	1.7	17

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19	Reliable ferrocenyloligonucleotide-immobilized electrodes and their application to electrochemical DNase I assay. Analytica Chimica Acta, 2009, 645, 30-35.	2.6	16
20	Oral Cancer Screening Based on Methylation Frequency Detection in hTERT Gene Using Electrochemical Hybridization Assay via a Multiâ€electrode Chip Coupled with Ferrocenylnaphthalene Diimide. Electroanalysis, 2017, 29, 1596-1601.	1.5	16
21	Electrochemical assay for deoxyribonuclease I activity. Analytical Biochemistry, 2008, 381, 233-239.	1.1	15
22	Cyclic ferrocenylnaphthalene diimide derivative as a new class of G-quadruplex DNA binding ligand. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 329-335.	1.0	14
23	Cyclic Naphthalene Diimide with a Ferrocene Moiety as a Redoxâ€Active Tetraplexâ€DNA Ligand. Chemistry - A European Journal, 2020, 26, 139-142.	1.7	14
24	The Interaction of Cyclic Naphthalene Diimide with G-Quadruplex under Molecular Crowding Condition. Molecules, 2020, 25, 668.	1.7	14
25	Selective immobilization of double stranded DNA on a gold surface through threading intercalation of a naphthalene diimide having dithiolane moieties. Analytica Chimica Acta, 2010, 665, 91-97.	2.6	13
26	Screening for Oral Cancer Using Electrochemical Telomerase Assay. Electroanalysis, 2016, 28, 503-507.	1.5	13
27	Electrochemical RNase A Detection Using an Electrode with Immobilized Ferrocenyl Deoxyribooligonucleotide Containing Cytidine Residue. Electroanalysis, 2013, 25, 1652-1658.	1.5	12
28	Ferrocenylnaphthalene Diimide-Based Electrochemical Detection of Aberrant Methylation in hTERT Gene. Applied Biochemistry and Biotechnology, 2014, 174, 869-879.	1.4	12
29	Thermodynamics and kinetic studies in the binding interaction of cyclic naphthalene diimide derivatives with double stranded DNAs. Bioorganic and Medicinal Chemistry, 2015, 23, 4769-4776.	1.4	12
30	Ferrocenyl naphthalene diimides as tetraplex DNA binders. Journal of Inorganic Biochemistry, 2017, 167, 21-26.	1.5	12
31	Cyclic perylene diimide: Selective ligand for tetraplex DNA binding over double stranded DNA. Bioorganic and Medicinal Chemistry, 2017, 25, 6404-6411.	1.4	11
32	Electrochemical sensory detection of Sus scrofa mtDNA for food adulteration using hybrid ferrocenylnaphthalene diimide intercalator as a hybridization indicator. RSC Advances, 2020, 10, 27336-27345.	1.7	11
33	Discrimination of phosphorylated double stranded DNA by naphthalene diimide having zinc(II) dipicolylamine complexes. Bioorganic and Medicinal Chemistry, 2011, 19, 1361-1365.	1.4	10
34	Metallization of Double-Stranded DNA Triggered by Bound Galactose-Modified Naphthalene Diimide. Bioconjugate Chemistry, 2014, 25, 1547-1555.	1.8	10
35	The methylation status and expression of human telomerase reverse transcriptase is significantly high in oral carcinogenesis. Apmis, 2017, 125, 797-807.	0.9	10
36	Electrochemical DNA Detection Using Supramolecular Interactions. Analytical Sciences, 2012, 28, 643-649.	0.8	9

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37	Formation and Electrical Evaluation of a Single Metallized DNA Nanowire in a Nanochannel. Electroanalysis, 2016, 28, 1448-1454.	1.5	9
38	Electrochemical telomerase assay for screening for oral cancer. British Journal of Oral and Maxillofacial Surgery, 2016, 54, 301-305.	0.4	9
39	Improving the affinity of naphthalene diimide ligand to telomeric DNA by incorporating Zn2+ ions into its dipicolylamine groups. Bioorganic and Medicinal Chemistry, 2012, 20, 6416-6422.	1.4	8
40	Naphthalene diimide carrying four ferrocenyl substitutes as an electrochemical indicator of tetraplex DNA aiming at cancer diagnosis. Journal of Organometallic Chemistry, 2019, 897, 107-113.	0.8	8
41	Electrochemical Detection of Duplex DNA Using Intercalationâ€Triggered Decomplexation of Ferrocene with Î²â€Cyclodextrin. Electroanalysis, 2013, 25, 1827-1830.	1.5	7
42	Development of a Membrane-based Microwave-mediated Electrochemical ELISA Method for TNF-Î± Detection in Patients with Periodontitis. Analytical Sciences, 2013, 29, 927-930.	0.8	7
43	Cooperative Binding of Ferrocenylnaphthalene Diimide Carrying Î²-Cyclodextrin Converts Double-Stranded DNA to a Rod-Like Structure. Bioconjugate Chemistry, 2015, 26, 379-382.	1.8	7
44	SNP analysis by using ferrocenyl naphthalene diimide (FND)-based electrochemical hybridization assay (EHA). Nucleic Acids Symposium Series, 2003, 3, 169-170.	0.3	6
45	Ferrocenylnaphthalene Diimide-based Electrochemical Ribonuclease Assay. Analytical Sciences, 2007, 23, 1415-1419.	0.8	6
46	Membrane-Based Microwave-Mediated Electrochemical Immunoassay for the In Vitro, Highly Sensitive Detection of Osteoporosis-Related Biomarkers. Sensors, 2018, 18, 2933.	2.1	6
47	Specific Metallization of Double-Stranded DNA Using Reducing Group-Labeled Intercalator. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 425-431.	0.0	6
48	Electrochemical detection of DNase I activity. Nucleic Acids Symposium Series, 2006, 50, 307-308.	0.3	4
49	Synthesis of a naphthalene diimide derivative having four ferrocene moieties as an electrochemical DNA hybridization indicator. Nucleic Acids Symposium Series, 2008, 52, 239-240.	0.3	3
50	Naphthalene Diimide Carrying Two Cysteine Termini at Both Imide Linkers as a Molecular Staple. Electroanalysis, 2013, 25, 1831-1839.	1.5	3
51	Water-soluble porphyrinoids as G-quadruplex binders and telomerase inhibitors. Journal of Porphyrins and Phthalocyanines, 2016, 20, 1041-1048.	0.4	3
52	Substituent effects of cyclic naphthalene diimide on G-quadruplex binding and the inhibition of cancer cell growth. Bioorganic and Medicinal Chemistry Letters, 2021, 50, 128323.	1.0	3
53	Cyclic ferrocenylnaphthalene diimides as a probe for electrochemical telomerase assay. Journal of Inorganic Biochemistry, 2022, 230, 111746.	1.5	3
54	Electrochemical detection of telomeric quadruplex DNA using ferrocenyl naphthalene diimide. Nucleic Acids Symposium Series, 2005, 49, 237-238.	0.3	1

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55	Electrochemical Aberrant Methylation Detection Based on Ferrocenyl Naphthalene Diimide Carrying Î²â€Cyclodextrin, FNC. Electroanalysis, 2019, 31, 1988-1993.	1.5	1
56	Telomerase as Biomarker for Oral Cancer. Biomarkers in Disease, 2015, , 753-770.	0.0	1
57	Replication Control of Human Telomere G-Quadruplex DNA by G-Quadruplex Ligands Dependent on Solution Environment. Life, 2022, 12, 553.	1.1	1
58	Synthesis of adamantyl naphthalene diimide and its interaction with double stranded DNA. Nucleic Acids Symposium Series, 2002, 2, 213-214.	0.3	0
59	Electrochemical gene detection by using adamanthyl naphthalene diimide coupled with ferrocenyl-Â-cyclodextrin. Nucleic Acids Symposium Series, 2004, 48, 103-104.	0.3	0
60	Electrochemical Diagnosis for Tongue Cancer : Telomerase Assay Based on Ferrocenylnaphthalene Diimide and Disposable Electrode Chips. Bunseki Kagaku, 2012, 61, 243-250.	0.1	0
61	Supramolecular Assembly for Electrochemical Gene Detection. Bunseki Kagaku, 2013, 62, 627-635.	0.1	0
62	Electrochemical telomerase assay for oral cancer screening. , 2014, , .		0
63	DNA methylation detection based on difference of base content. Journal of Physics: Conference Series, 2016, 704, 012015.	0.3	0
64	Electrochemical Hybridization Assay for Methylation Detection of the hTERT Gene Connected with Oral Cancer Screening. Bunseki Kagaku, 2017, 66, 437-443.	0.1	0
65	Recent Development for Tetraplex DNA Organometallic Ligands. , 2019, , 265-276.		0
66	An Electrochemical Protease Assay Using Ferrocenylpeptide for Screening of Periodontal Disease. Bunseki Kagaku, 2021, 70, 199-206.	0.1	0
67	Telomerase as Biomarker for Oral Cancer. , 2014, , 1-15.		0
68	Development of Self-screening System for Oral Cancer. Japanese Journal of Oral Diagnosis / Oral Medicine, 2019, 32, 191-196.	0.0	0
69	Naphthalene Diimides Carrying Two Î²-Cyclodextrins Prefer Telomere RNA G-Quadruplex Recognition. Molecules, 2022, 27, 4053.	1.7	0