

Shinobu Sato

List of Publications by Year in descending order

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papers

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all docs

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docs citations

70
times ranked

876
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclic ferrocenylnaphthalene diimides as a probe for electrochemical telomerase assay. <i>Journal of Inorganic Biochemistry</i> , 2022, 230, 111746.	1.5	3
2	Replication Control of Human Telomere G-Quadruplex DNA by G-Quadruplex Ligands Dependent on Solution Environment. <i>Life</i> , 2022, 12, 553.	1.1	1
3	Naphthalene Diimides Carrying Two β -Cyclodextrins Prefer Telomere RNA G-Quadruplex Recognition. <i>Molecules</i> , 2022, 27, 4053.	1.7	0
4	An Electrochemical Protease Assay Using Ferrocenylpeptide for Screening of Periodontal Disease. <i>Bunseki Kagaku</i> , 2021, 70, 199-206.	0.1	0
5	Chemical Modulation of DNA Replication along G-Quadruplex Based on Topology-Dependent Ligand Binding. <i>Journal of the American Chemical Society</i> , 2021, 143, 16458-16469.	6.6	31
6	Substituent effects of cyclic naphthalene diimide on G-quadruplex binding and the inhibition of cancer cell growth. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 50, 128323.	1.0	3
7	Cyclic Naphthalene Diimide with a Ferrocene Moiety as a Redox-Active Tetraplex-DNA Ligand. <i>Chemistry - A European Journal</i> , 2020, 26, 139-142.	1.7	14
8	Electrochemical sensory detection of <i>Sus scrofa</i> mtDNA for food adulteration using hybrid ferrocenylnaphthalene diimide intercalator as a hybridization indicator. <i>RSC Advances</i> , 2020, 10, 27336-27345.	1.7	11
9	The Interaction of Cyclic Naphthalene Diimide with G-Quadruplex under Molecular Crowding Condition. <i>Molecules</i> , 2020, 25, 668.	1.7	14
10	Naphthalene diimide carrying four ferrocenyl substitutes as an electrochemical indicator of tetraplex DNA aiming at cancer diagnosis. <i>Journal of Organometallic Chemistry</i> , 2019, 897, 107-113.	0.8	8
11	Electrochemical Aberrant Methylation Detection Based on Ferrocenyl Naphthalene Diimide Carrying β -Cyclodextrin. <i>FNC. Electroanalysis</i> , 2019, 31, 1988-1993.	1.5	1
12	Cyclic Naphthalene Diimide Dimer with a Strengthened Ability to Stabilize Dimeric G-Quadruplex. <i>Chemistry - A European Journal</i> , 2019, 25, 8691-8695.	1.7	17
13	Recent Development for Tetraplex DNA Organometallic Ligands. , 2019, , 265-276.		0
14	Development of Self-screening System for Oral Cancer. <i>Japanese Journal of Oral Diagnosis / Oral Medicine</i> , 2019, 32, 191-196.	0.0	0
15	Membrane-Based Microwave-Mediated Electrochemical Immunoassay for the In Vitro, Highly Sensitive Detection of Osteoporosis-Related Biomarkers. <i>Sensors</i> , 2018, 18, 2933.	2.1	6
16	Oral Cancer Screening Based on Methylation Frequency Detection in <i>hTERT</i> Gene Using Electrochemical Hybridization Assay via a Multi-electrode Chip Coupled with Ferrocenylnaphthalene Diimide. <i>Electroanalysis</i> , 2017, 29, 1596-1601.	1.5	16
17	Cyclic ferrocenylnaphthalene diimide derivative as a new class of G-quadruplex DNA binding ligand. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 329-335.	1.0	14
18	Cyclic perylene diimide: Selective ligand for tetraplex DNA binding over double stranded DNA. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 6404-6411.	1.4	11

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19	The methylation status and expression of human telomerase reverse transcriptase is significantly high in oral carcinogenesis. <i>Apmis</i> , 2017, 125, 797-807.	0.9	10
20	Ferrocenyl naphthalene diimides as tetraplex DNA binders. <i>Journal of Inorganic Biochemistry</i> , 2017, 167, 21-26.	1.5	12
21	Electrochemical Hybridization Assay for Methylation Detection of the <i>hTERT</i> Gene Connected with Oral Cancer Screening. <i>Bunseki Kagaku</i> , 2017, 66, 437-443.	0.1	0
22	Formation and Electrical Evaluation of a Single Metallized DNA Nanowire in a Nanochannel. <i>Electroanalysis</i> , 2016, 28, 1448-1454.	1.5	9
23	DNA methylation detection based on difference of base content. <i>Journal of Physics: Conference Series</i> , 2016, 704, 012015.	0.3	0
24	Screening for Oral Cancer Using Electrochemical Telomerase Assay. <i>Electroanalysis</i> , 2016, 28, 503-507.	1.5	13
25	Water-soluble porphyrinoids as G-quadruplex binders and telomerase inhibitors. <i>Journal of Porphyrins and Phthalocyanines</i> , 2016, 20, 1041-1048.	0.4	3
26	Electrochemical telomerase assay for screening for oral cancer. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2016, 54, 301-305.	0.4	9
27	Specific Metallization of Double-Stranded DNA Using Reducing Group-Labeled Intercalator. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2016, 136, 425-431.	0.0	6
28	A Selective G-Quadruplex DNA-Stabilizing Ligand Based on a Cyclic Naphthalene Diimide Derivative. <i>Molecules</i> , 2015, 20, 10963-10979.	1.7	35
29	Cooperative Binding of Ferrocenylnaphthalene Diimide Carrying β -Cyclodextrin Converts Double-Stranded DNA to a Rod-Like Structure. <i>Bioconjugate Chemistry</i> , 2015, 26, 379-382.	1.8	7
30	Thermodynamics and kinetic studies in the binding interaction of cyclic naphthalene diimide derivatives with double stranded DNAs. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4769-4776.	1.4	12
31	Telomerase as Biomarker for Oral Cancer. <i>Biomarkers in Disease</i> , 2015, , 753-770.	0.0	1
32	Highly Sensitive Nuclease Assays Based on Chemically Modified DNA or RNA. <i>Sensors</i> , 2014, 14, 12437-12450.	2.1	24
33	Electrochemical telomerase assay for oral cancer screening. , 2014, , .		0
34	Design of tetraplex specific ligands: cyclic naphthalene diimide. <i>Chemical Communications</i> , 2014, 50, 5967-5969.	2.2	38
35	Metallization of Double-Stranded DNA Triggered by Bound Galactose-Modified Naphthalene Diimide. <i>Bioconjugate Chemistry</i> , 2014, 25, 1547-1555.	1.8	10
36	Interactions of cyclic and non-cyclic naphthalene diimide derivatives with different nucleic acids. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2593-2601.	1.4	19

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37	Ferrocenylnaphthalene Diimide-Based Electrochemical Detection of Aberrant Methylation in hTERT Gene. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 869-879.	1.4	12
38	Telomerase as Biomarker for Oral Cancer. , 2014, , 1-15.		0
39	Oral Cancer Diagnosis via a Ferrocenylnaphthalene Diimide-Based Electrochemical Telomerase Assay. <i>Clinical Chemistry</i> , 2013, 59, 289-295.	1.5	36
40	Electrochemical RNase A Detection Using an Electrode with Immobilized Ferrocenyl Deoxyribooligonucleotide Containing Cytidine Residue. <i>Electroanalysis</i> , 2013, 25, 1652-1658.	1.5	12
41	Electrochemical Detection of Duplex DNA Using Intercalation-Triggered Decomplexation of Ferrocene with β -Cyclodextrin. <i>Electroanalysis</i> , 2013, 25, 1827-1830.	1.5	7
42	Naphthalene Diimide Carrying Two Cysteine Termini at Both Imide Linkers as a Molecular Staple. <i>Electroanalysis</i> , 2013, 25, 1831-1839.	1.5	3
43	Development of a Membrane-based Microwave-mediated Electrochemical ELISA Method for TNF- α Detection in Patients with Periodontitis. <i>Analytical Sciences</i> , 2013, 29, 927-930.	0.8	7
44	Supramolecular Assembly for Electrochemical Gene Detection. <i>Bunseki Kagaku</i> , 2013, 62, 627-635.	0.1	0
45	Electrochemical DNA Detection Using Supramolecular Interactions. <i>Analytical Sciences</i> , 2012, 28, 643-649.	0.8	9
46	Electrochemical Diagnosis for Tongue Cancer : Telomerase Assay Based on Ferrocenylnaphthalene Diimide and Disposable Electrode Chips. <i>Bunseki Kagaku</i> , 2012, 61, 243-250.	0.1	0
47	Detection of an aberrant methylation of CDH4 gene in PCR product by ferrocenylnaphthalene diimide-based electrochemical hybridization assay. <i>Analytica Chimica Acta</i> , 2012, 715, 42-48.	2.6	25
48	Improving the affinity of naphthalene diimide ligand to telomeric DNA by incorporating Zn ²⁺ ions into its dipicolylamine groups. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6416-6422.	1.4	8
49	PCR-Free Telomerase Assay Using Chronocoulometry Coupled with Hexaammineruthenium(III) Chloride. <i>Analytical Chemistry</i> , 2012, 84, 1772-1775.	3.2	47
50	Electrochemical DNA Analysis with a Supramolecular Assembly of Naphthalene Diimide, Ferrocene, and β -Cyclodextrin. <i>Analytical Chemistry</i> , 2011, 83, 7290-7296.	3.2	24
51	Discrimination of phosphorylated double stranded DNA by naphthalene diimide having zinc(II) dipicolylamine complexes. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1361-1365.	1.4	10
52	Electrochemical detection of aberrant methylated gene using naphthalene diimide derivative carrying four ferrocene moieties. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 1858-1862.	0.8	18
53	Selective immobilization of double stranded DNA on a gold surface through threading intercalation of a naphthalene diimide having dithiolane moieties. <i>Analytica Chimica Acta</i> , 2010, 665, 91-97.	2.6	13
54	Reliable ferrocenyloligonucleotide-immobilized electrodes and their application to electrochemical DNase I assay. <i>Analytica Chimica Acta</i> , 2009, 645, 30-35.	2.6	16

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55	Linker effect of ferrocenylnaphthalene diimide ligands in the interaction with double stranded DNA. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1177-1185.	0.8	41
56	Electrochemical assay for deoxyribonuclease I activity. <i>Analytical Biochemistry</i> , 2008, 381, 233-239.	1.1	15
57	Synthesis of a naphthalene diimide derivative having four ferrocene moieties as an electrochemical DNA hybridization indicator. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 239-240.	0.3	3
58	Direct Modification of mRNA by Ferrocenyl Carbodiimide and Its Application to Electrochemical Detection of mRNA. <i>Analytical Sciences</i> , 2007, 23, 115-119.	0.8	21
59	Ferrocenylnaphthalene Diimide-based Electrochemical Ribonuclease Assay. <i>Analytical Sciences</i> , 2007, 23, 1415-1419.	0.8	6
60	Ferrocenylnaphthalene diimide-based electrochemical detection of methylated gene. <i>Analytica Chimica Acta</i> , 2006, 578, 82-87.	2.6	33
61	Electrochemical detection of DNase I activity. <i>Nucleic Acids Symposium Series</i> , 2006, 50, 307-308.	0.3	4
62	Supramolecular Complex Formation by β -Cyclodextrin and Ferrocenylnaphthalene Diimide-intercalated Double Stranded DNA and Improved Electrochemical Gene Detection. <i>Molecules</i> , 2005, 10, 693-707.	1.7	38
63	Electrochemical detection of telomeric quadruplex DNA using ferrocenyl naphthalene diimide. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 237-238.	0.3	1
64	Electrochemical Telomerase Assay with Ferrocenylnaphthalene Diimide as a Tetraplex DNA-Specific Binder. <i>Analytical Chemistry</i> , 2005, 77, 7304-7309.	3.2	79
65	Electrochemical gene detection by using adamantyl naphthalene diimide coupled with ferrocenyl- β -cyclodextrin. <i>Nucleic Acids Symposium Series</i> , 2004, 48, 103-104.	0.3	0
66	Electrochemical gene detection based on supramolecular complex formation by ferrocenyl- β -cyclodextrin and adamantyl naphthalene diimide bound to double stranded DNA. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 4722-4728.	0.8	26
67	SNP analysis by using ferrocenyl naphthalene diimide (FND)-based electrochemical hybridization assay (EHA). <i>Nucleic Acids Symposium Series</i> , 2003, 3, 169-170.	0.3	6
68	Synthesis of adamantyl naphthalene diimide and its interaction with double stranded DNA. <i>Nucleic Acids Symposium Series</i> , 2002, 2, 213-214.	0.3	0
69	Ferrocenyl naphthalene diimide can bind to DNA-RNA hetero duplex: potential use in an electrochemical detection of mRNA expression. <i>Journal of Organometallic Chemistry</i> , 2001, 637-639, 476-483.	0.8	18