

Yukari Sato

List of Publications by Year in descending order

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82
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3,020
citations

136740

32
h-index

161609

54
g-index

83
all docs

83
docs citations

83
times ranked

2433
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical characteristics of a gold electrode modified with a self-assembled monolayer of ferrocenylalkanethiols. <i>Langmuir</i> , 1991, 7, 1510-1514.	1.6	318
2	In situ and dynamic monitoring of the self-assembling and redox processes of a ferrocenylundecanethiol monolayer by electrochemical quartz crystal microbalance. <i>Langmuir</i> , 1992, 8, 1385-1387.	1.6	180
3	Electrochemical Performance of Angstrom Level Flat Sputtered Carbon Film Consisting of sp ² and sp ³ Mixed Bonds. <i>Journal of the American Chemical Society</i> , 2006, 128, 7144-7145.	6.6	170
4	On-Chip Enzyme Immunoassay of a Cardiac Marker Using a Microfluidic Device Combined with a Portable Surface Plasmon Resonance System. <i>Analytical Chemistry</i> , 2006, 78, 5525-5531.	3.2	156
5	Electrochemical and electrogenerated chemiluminescence properties of tris(2,2'-bipyridine)ruthenium(II)-tridecanethiol derivative on ITO and gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1995, 384, 57-66.	1.9	107
6	Electrochemical properties of the 2-mercaptohydroquinone monolayer on a gold electrode. Effect of solution pH, adsorption time and concentration of the modifying solution. <i>Journal of Electroanalytical Chemistry</i> , 1996, 409, 145-154.	1.9	105
7	Structure and Electrochemical Properties of Carbon Films Prepared by a Electron Cyclotron Resonance Sputtering Method. <i>Analytical Chemistry</i> , 2007, 79, 98-105.	3.2	93
8	Electrochemical quartz crystal microbalance studies of self-assembled monolayers of 11-ferrocenyl-1-undecanethiol: Structure-dependent ion-pairing and solvent uptake. <i>Journal of Electroanalytical Chemistry</i> , 1994, 372, 117-124.	1.9	84
9	In situ STM imaging of individual molecules in two-component self-assembled monolayers of 3-mercaptopropionic acid and 1-decanethiol on Au(111). <i>Journal of Electroanalytical Chemistry</i> , 2001, 496, 50-60.	1.9	77
10	Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor. <i>Analytica Chimica Acta</i> , 1998, 364, 173-179.	2.6	72
11	Unidirectional Electron Transfer at Self-Assembled Monolayers of 11-Ferrocenyl-1-undecanethiol on Gold. <i>Bulletin of the Chemical Society of Japan</i> , 1993, 66, 1032-1037.	2.0	69
12	Coverage dependent behavior of redox reaction induced structure change and mass transport at an 11-ferrocenyl-1-undecanethiol self-assembled monolayer on a gold electrode studied by an in situ IRRAS-EQCM combined system. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3653-3659.	1.3	68
13	Electrochemical in situ FT-IRRAS studies of a self-assembled monolayer of 2-(11-mercaptopundecyl)hydroquinone. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 3813.	1.7	67
14	High-throughput flow-injection analysis of glucose and glutamate in food and biological samples by using enzyme/polyion complex-bilayer membrane-based electrodes as the detectors. <i>Biosensors and Bioelectronics</i> , 1998, 13, 809-815.	5.3	65
15	Amperometric determination of pyruvate, phosphate and urea using enzyme electrodes based on pyruvate oxidase-containing poly(vinyl alcohol)/polyion complex-bilayer membrane. <i>Electrochimica Acta</i> , 2000, 45, 2945-2952.	2.6	64
16	Rapid measurement of transaminase activities using an amperometric L-glutamate-sensing electrode based on a glutamate oxidase-polyion complex-bilayer membrane. <i>Sensors and Actuators B: Chemical</i> , 1998, 52, 23-29.	4.0	61
17	Electrochemical Enzyme Immunoassay of a Peptide Hormone at Picomolar Levels. <i>Analytical Chemistry</i> , 2005, 77, 4235-4240.	3.2	53
18	Electrochemical responses of cytochrome c on a gold electrode modified with mixed monolayers of 3-mercaptopropionic acid and n-alkanethiol. <i>Journal of Electroanalytical Chemistry</i> , 1997, 438, 99-104.	1.9	50

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19	Formation and characterization of aromatic selenol and thiol monolayers on gold: in-situ IR studies and electrochemical measurements. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1328.	1.3	50
20	Electrochemically amplified detection for lipopolysaccharide using ferrocenylboronic acid. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1527-1531.	5.3	44
21	Surface Modification of GC and HOPG with Diazonium, Amine, Azide, and Olefin Derivatives. <i>Langmuir</i> , 2011, 27, 170-178.	1.6	44
22	Enzyme Ultra-thin Layer Electrode Prepared by the Co-adsorption of Poly-L-lysine and Glucose Oxidase onto a Mercaptopropionic Acid-Modified Gold Surface. <i>Chemistry Letters</i> , 1996, 25, 251-252.	0.7	41
23	In Situ Surface-Enhanced Infrared Study of Hydrogen Bond Pairing of Complementary Nucleic Acid Bases at the Electrochemical Interface. <i>Analytical Chemistry</i> , 2004, 76, 5564-5569.	3.2	40
24	Amperometric Determination of Acetic Acid with a Trienzyme/Poly(dimethylsiloxane)-Bilayer-Based Sensor. <i>Analytical Chemistry</i> , 2001, 73, 5738-5742.	3.2	39
25	Rapid and highly-sensitive determination of acetylcholinesterase activity based on the potential-dependent adsorption of thiocholine on silver electrodes. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 148-151.	4.0	38
26	Electrochemical responses of cytochrome c on gold electrodes modified with nucleic acid base derivatives—electrochemical and quartz crystal microbalance studies. <i>Electrochimica Acta</i> , 2000, 45, 2869-2875.	2.6	37
27	Use of a siloxane polymer for the preparation of amperometric sensors: O ₂ and NO sensors and enzyme sensors. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 489-493.	4.0	37
28	Ordered structures of self-assembled monolayers of 3-mercaptopropionic acid on Au(111): in situ scanning tunneling microscopy study. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3399-3404.	1.3	34
29	Efficient synthesis of 1%-mercaptoalkyl 1,2-trans-glycosides from sugar peracetates. <i>Carbohydrate Research</i> , 2007, 342, 1009-1020.	1.1	34
30	Voltammetric enzyme sensor for urea using mercaptohydroquinone-modified gold electrode as the base transducer. <i>Biosensors and Bioelectronics</i> , 1997, 12, 321-328.	5.3	33
31	In situ scanning tunneling microscopy observation of self-assembled monolayers of 3-mercaptopropionic acid on Au(111) in perchloric acid solution. <i>Journal of Electroanalytical Chemistry</i> , 2001, 507, 256-262.	1.9	33
32	Enzyme electrodes based on self-assembled monolayers of thiol compounds on gold. <i>Electrochimica Acta</i> , 1999, 44, 3833-3838.	2.6	32
33	Determination of Real Composition of 3-Mercaptopropionic Acid and 1-Octadecanethiol Mixed Self-Assembled Monolayers by Using Electrochemical and Electrochemical Quartz Crystal Microbalance Measurements. <i>Electroanalysis</i> , 1998, 10, 633-637.	1.5	29
34	Design of Biomolecular Interface for Detecting Carbohydrate and Lectin Weak Interactions. <i>Langmuir</i> , 2012, 28, 1846-1851.	1.6	28
35	Synthesis of phosphorylcholine—oligoethylene glycol—alkane thiols and their suppressive effect on non-specific adsorption of proteins. <i>Tetrahedron Letters</i> , 2009, 50, 4092-4095.	0.7	27
36	Stereoselective glycosylations using benzoylated glucosyl halides with inexpensive promoters. <i>Carbohydrate Research</i> , 2008, 343, 1297-1308.	1.1	25

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37	Electrochemical behavior of gold electrodes modified with aminopurinethiol derivatives. Journal of Electroanalytical Chemistry, 1999, 473, 99-104.	1.9	24
38	Highly Sensitive Determination of Acetylcholinesterase Activity Based on the Chemisorption/Reductive Desorption-Process of Thiol Compound on a Silver Electrode. Chemistry Letters, 2002, 31, 618-619.	0.7	24
39	Recognition of lectin with a high signal to noise ratio: carbohydrate-tri(ethylene glycol)-alkanethiol co-adsorbed monolayer. Chemical Communications, 2008, , 4909.	2.2	24
40	Interference-free, amperometric measurement of urea in biological samples using an electrode coated with tri-enzyme/polydimethylsiloxane-bilayer membrane. Analytica Chimica Acta, 2001, 441, 175-181.	2.6	23
41	Highly-Sensitive Determination of 6-Mercaptopurine and Its Metabolites by Electrochemical Reductive Desorption Measurements. Electroanalysis, 2005, 17, 965-968.	1.5	22
42	12-Mercaptododecyl Γ^2 -maltoside-modified gold nanoparticles: specific ligands for concanavalin A having long flexible hydrocarbon chains. Analytical and Bioanalytical Chemistry, 2008, 391, 2527-2532.	1.9	22
43	One-Step Detection of Galectins on Hybrid Monolayer Surface with Protruding Lactoside. Analytical Chemistry, 2010, 82, 1175-1178.	3.2	22
44	Mediatorless Superoxide Dismutase Sensors Using Cytochrome c-Modified Electrodes: Xanthine Oxidase Incorporated Polyion Complex Membrane for Enhanced Activity and In Vivo Analysis. Electroanalysis, 2001, 13, 397-403.	1.5	21
45	Redox-Flow Battery Operating in Neutral and Acidic Environments with Multielectron-Transfer-Type Viologen Molecular Assembly. ACS Applied Energy Materials, 2020, 3, 4377-4383.	2.5	21
46	Surface electrochemical enzyme immunoassay for the highly sensitive measurement of B-type natriuretic peptide. Sensors and Actuators B: Chemical, 2005, 108, 603-607.	4.0	19
47	Rapid and accurate determination of NADH by an amperometric sensor with a bilayer membrane consisting of a polyion complex layer and an NADH oxidase layer. Sensors and Actuators B: Chemical, 2000, 65, 46-48.	4.0	17
48	Amperometric measurement of ds-DNA content using a peroxidase-modified electrode. Bioelectrochemistry, 2004, 63, 257-259.	2.4	17
49	Potential-dependent chemiluminescence of luminol on the gold electrode modified with ferrocenylalkanethiol self-assembled monolayer. Electrochemistry Communications, 2001, 3, 131-135.	2.3	16
50	Suppression of Non-specific Adsorption Using Densified Tri(ethylene glycol) alkanethiols: Monolayer Characteristics Evaluated by Electrochemical Measurements. Analytical Sciences, 2010, 26, 33-37.	0.8	15
51	Formation of Molecularly Ordered Domain of 1-Decanethiol in the Mixed Self-Assembled Monolayer with Bis(4-pyridyl)disulfide - A Scanning Tunneling Microscopy Observation. Chemistry Letters, 1997, 26, 987-988.	0.7	14
52	Simultaneous determination of glucose and ascorbic acid by using gold electrode modified with ferrocenylundecanethiol monolayer. Sensors and Actuators B: Chemical, 2005, 108, 617-621.	4.0	14
53	<i>In situ</i> STM Imaging of Two-Component Self-Assembled Monolayers of 1-Decanethiol and 3-Mercaptopropionic Acid on Au(111). Electrochemistry, 1999, 67, 1178-1180.	0.6	14
54	Mass transport accompanied with electron transfer between the gold electrode modified with 11-ferrocenylundecanethiol monolayer and redox species in solution – an electrochemical quartz crystal microbalance study. Journal of Electroanalytical Chemistry, 1997, 434, 115-119.	1.9	13

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55	Immobilization of polyglutamate-glucose oxidase onto a cysteamine-modified gold electrode. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 187-190.	4.0	13
56	Novel stereocontrolled amidoglycosylation of alcohols with acetylated glycols and sulfamate ester. <i>RSC Advances</i> , 2014, 4, 21584-21587.	1.7	13
57	Hydrogen bonding interaction between aminopurinethiol-monolayers and oligonucleotides by QCM and XPS measurements. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 214-218.	4.0	12
58	Surface modification of thin polyion complex film for surface plasmon resonance immunosensor. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 320-325.	4.0	12
59	Electrochemical and Electrogenerated Chemiluminescence Properties of a Tris (bipyridyl) ruthenium(II)-Alkanethiol Derivative on ITO and Gold Electrodes. <i>Electrochemistry</i> , 1993, 61, 816-817.	0.3	12
60	Adsorption Properties and Activities of Lipase on a Gold Substrate Modified by Self-assembled Monolayers. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 2392-2396.	0.6	11
61	Electrochemiluminescence of Luminol Generated at Self-Assembled Monolayer of Ferrocenylalkanethiol on Gold Electrode. <i>Chemistry Letters</i> , 2000, 29, 1330-1331.	0.7	10
62	Surface Modification of Thin Polyion Complex Film with a High Specific Binding Affinity and Prevention of Non-specific Adsorption in Surface Plasmon Resonance Immunoassay. <i>Electrochemistry</i> , 2006, 74, 121-124.	0.6	10
63	Synthesis and galectin-binding activities of mercaptododecyl glycosides containing a terminal β -galactosyl group. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 1265-1269.	1.0	9
64	Amperometric L-Lactate-Sensing Electrode Using an Enzyme Ultra-thin Layer Produced through the Co-adsorption of Poly-L-Lysine and Lactate Oxidase onto Mercaptoalkanoic Acid-Modified Gold Surface. <i>Electrochemistry</i> , 1996, 64, 1266-1268.	0.3	9
65	Cytochrome c-552 from gram-negative alkaliphilic <i>Pseudomonas alcaliphila</i> AL15-21T alters the redox properties at high pH. <i>Journal of Bioscience and Bioengineering</i> , 2007, 103, 247-254.	1.1	8
66	Electrochemical Responses of Cytochrome c on Gold Electrode Modified with Bis (4-pyridyl) Disulfide/n-Alkanethiol Mixed Monolayers. <i>Electrochemistry</i> , 1995, 63, 1173-1178.	0.3	8
67	Amperometric Biosensors Using an Enzyme-Containing Polyion Complex. <i>ACS Symposium Series</i> , 1998, , 46-56.	0.5	6
68	Surface Plasmon Resonance Analysis of Interactions between Diacylglycerol Acyltransferase and Its Interacting Molecules. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 1135-1139.	0.6	6
69	Enzyme electrode response in solution containing enzyme substrate and species that associates with the substrate. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 613-616.	4.0	5
70	<i>In Situ&/i> STM Observation of Self-assembled Monolayers of 2-Amino-6-purinethiol on Au(111) Electrodes. <i>Electrochemistry</i> , 2001, 69, 962-965.	0.6	5
71	Recent Development of Carbon-based Electrode for Vanadium Redox Flow Battery. <i>Electrochemistry</i> , 2020, 88, 344-346.	0.6	5
72	Highly-sensitive Biosensors with Chemically-amplified Responses. <i>Electrochemistry</i> , 2008, 76, 515-521.	0.6	4

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73	Bifunctional Tri(ethylene glycol) Alkanethiol Monolayer Modified Gold Electrode for On-Chip Electrochemical Immunoassay of pg Level Leptin. <i>Analytical Sciences</i> , 2011, 27, 465-469.	0.8	3
74	Adsorptive Stripping Voltammetric Measurement of Acetylcholinesterase Activity: Application to Monitoring Organophosphorus Pesticides. <i>Electrochemistry</i> , 2003, 71, 411-413.	0.6	3
75	Electrochemical Chemiluminescence Responses on Gold Electrodes Modified with Ferrocenylundecanethiol Monolayer and Poly(divinylferrocene) Film. <i>Electrochemistry</i> , 2006, 74, 202-204.	0.6	2
76	Convenient stereocontrolled amidoglycosylation of alcohols with acetylated glycals and trichloroethoxysulfonamide. <i>Carbohydrate Research</i> , 2016, 434, 121-131.	1.1	2
77	Detection of L-lactic Acid using Electrochemically-Controllable Chemiluminescence System. <i>Electrochemistry</i> , 2001, 69, 1017-1019.	0.6	2
78	Surface-Electrochemical Sensor for the Measurement of Anti-Cholinesterase Activity.. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2003, 123, 128-129.	0.0	2
79	Measurement of DNA Amount on Gold Plate Based on the Oxidation Current of Guanine. <i>Bunseki Kagaku</i> , 2006, 55, 975-978.	0.1	1
80	Application of high-performance hydrocarbon-type sulfonated polyethersulfone for vanadium redox-flow battery. <i>International Journal of Energy Research</i> , 2021, 45, 19405-19412.	2.2	1
81	Thick-matrix-free interface for highly effective protein detection and sufficient signal enhancement. <i>Composite Interfaces</i> , 2014, 21, 631-638.	1.3	0
82	Bio- and Chemical Sensors and Role of Soft Interface. , 2019, , 181-198.		0