

Yu Hirano

List of Publications by Year in descending order

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papers

517
citations

759233

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33
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33
times ranked

487
citing authors

#	ARTICLE	IF	CITATIONS
1	Topographic, Electrochemical, and Optical Images Captured Using Standing Approach Mode Scanning Electrochemical/Optical Microscopy. <i>Langmuir</i> , 2006, 22, 10299-10306.	3.5	88
2	Imaging of enzyme activity by scanning electrochemical microscope equipped with a feedback control for substrate-probe distance. <i>Bioelectrochemistry</i> , 2003, 60, 115-121.	4.6	54
3	A competitive immunochromatographic assay for testosterone based on electrochemical detection. <i>Talanta</i> , 2007, 73, 886-892.	5.5	46
4	Simultaneous detection of uric acid and glucose on a dual-enzyme chip using scanning electrochemical microscopy/scanning chemiluminescence microscopy. <i>Analytica Chimica Acta</i> , 2002, 458, 263-270.	5.4	43
5	Enzyme immunosensing of pepsinogens 1 and 2 by scanning electrochemical microscopy. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3099-3104.	10.1	34
6	Construction of Time-Lapse Scanning Electrochemical Microscopy with Temperature Control and Its Application To Evaluate the Preservation Effects of Antifreeze Proteins on Living Cells. <i>Analytical Chemistry</i> , 2008, 80, 9349-9354.	6.5	33
7	Hypothermic preservation effect on mammalian cells of type III antifreeze proteins from notched-fin eelpout. <i>Cryobiology</i> , 2008, 57, 46-51.	0.7	30
8	Function Control of Anti-microRNA Oligonucleotides Using Interstrand Cross-Linked Duplexes. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 10, 64-74.	5.1	28
9	Electrochemical microdevice with separable electrode and antibody chips for simultaneous detection of pepsinogens 1 and 2. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1784-1790.	10.1	25
10	Interstrand cross-link of DNA by covalently linking a pair of abasic sites. <i>Chemical Communications</i> , 2012, 48, 2143.	4.1	21
11	Analysis of beat fluctuations and oxygen consumption in cardiomyocytes by scanning electrochemical microscopy. <i>Analytical Biochemistry</i> , 2014, 447, 39-42.	2.4	15
12	Size-controlled fabrication of gold nanodome arrays and its application to enzyme electrodes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 388-392.	4.7	13
13	Development of a scanning electrochemical microscopy-based micropipette and its application to analysis of topographic change of single-cell. <i>Bioelectrochemistry</i> , 2013, 92, 1-5.	4.6	11
14	Comparison of Enzymatic Recycling Electrodes for Measuring Aminophenol: Development of a Highly Sensitive Natriuretic Peptide Assay System. <i>Analytical Sciences</i> , 2008, 24, 577-582.	1.6	10
15	Bienzyme reactions on cross-linked DNA scaffolds for electrochemical analysis. <i>Bioelectrochemistry</i> , 2017, 113, 15-19.	4.6	9
16	Stable duplex-linked antisense targeting miR-148a inhibits breast cancer cell proliferation. <i>Scientific Reports</i> , 2021, 11, 11467.	3.3	9
17	Synthesis of crosslinked 2'-OMe RNA duplexes and their application for effective inhibition of miRNA function. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 48, 128257.	2.2	8
18	Area-selective Immobilization of Multi Enzymes by Using the Reductive Desorption of Self-assembled Monolayer. <i>Electrochemistry</i> , 2003, 71, 439-441.	1.4	8

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19	Imaging of immobilized enzyme spots by scanning chemiluminescence microscopy with electrophoretic injection. <i>Biosensors and Bioelectronics</i> , 2003, 18, 587-590.	10.1	6
20	Fabrication and characterization of nanoporous gold on microelectrode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 783, 188-191.	3.8	5
21	Electrochemical detection of DNA hybridization using a microelectrode array. <i>Electrochemistry</i> , 2004, 72, 137-140.	1.4	1
22	Analysis of time-course drug response in rat cardiomyocytes cultured on a pattern of islands. <i>Analyst</i> , 2018, 143, 4083-4089.	3.5	4
23	Direct Electrochemistry of Microsomal Human Flavin-containing Monooxygenases 1 and 3 on Naphthalenethiol Thin Films. <i>ECS Electrochemistry Letters</i> , 2013, 2, G5-G7.	1.9	2
24	Synthesis and Application of Interstrand Cross-Linked Duplexes by Covalently Linking a Pair of Abasic Sites. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2018, 75, e63.	0.5	2
25	Adsorptive Stripping Voltammetry for the Determination of Dissolved Oxygen Using a Mesoporous Pt Microelectrode. <i>Journal of the Electrochemical Society</i> , 2019, 166, B542-B546.	2.9	2
26	Inhibition of breast cancer cell proliferation with anti-microRNA oligonucleotides flanked by interstrand cross-linked duplexes. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020, 39, 225-235.	1.1	2
27	Enzyme Immunosensing for C-Reactive Protein with Scanning Electrochemical Microscopy. <i>Bunseki Kagaku</i> , 2006, 55, 979-985.	0.2	1
28	Preparation of Immunosensors Using a Microfluidic Device with an Interdigitated Array Electrode Modified with Antibodies. <i>Electrochemistry</i> , 2010, 78, 175-177.	1.4	1
29	Improvement of Detectable Sensitivity for Enzyme Reaction by Scanning Electrochemical Microscopy with Distance Control System for Immunosensing. <i>Electrochemistry</i> , 2012, 80, 30-32.	1.4	1
30	Microspots of GOD-HRP Bionzyme for Scanning Chemiluminescence Microscopy with Higher Resolution. <i>Electrochemistry</i> , 2001, 69, 946-948.	1.4	1
31	Electrochemical ELISA of Testosterone Using Nitrocellulose Membrane as a Support for Antibodies. <i>Bunseki Kagaku</i> , 2007, 56, 471-478.	0.2	0
32	Synthesis of Crosslinked 2'-O-Me RNA Duplexes Using 6-Amino-2-Vinylpurine and Their Application for Effective Inhibition of miRNA Function. <i>Current Protocols</i> , 2022, 2, e386.	2.9	0