

Ryoji Kurita

List of Publications by Year in descending order

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118
papers

3,175
citations

136950

32
h-index

175258

52
g-index

128
all docs

128
docs citations

128
times ranked

2865
citing authors

#	ARTICLE	IF	CITATIONS
1	A polymer-based chemical tongue for the non-invasive monitoring of osteogenic stem-cell differentiation by pattern recognition of serum-supplemented spent media. <i>Journal of Materials Chemistry B</i> , 2022, 10, 7581-7590.	5.8	6
2	Polymer-based chemical-nose systems for optical-pattern recognition of gut microbiota. <i>Chemical Science</i> , 2022, 13, 5830-5837.	7.4	12
3	Direct Capture and Amplification of Small Fragmented DNAs Using Nitrogen-Mustard-Coated Microbeads. <i>Analytical Chemistry</i> , 2022, 94, 7594-7600.	6.5	1
4	Mix-and-read bioluminescent copper detection platform using a caged coelenterazine analogue. <i>Analyst</i> , 2021, 146, 6139-6144.	3.5	2
5	Highly Sensitive Electrochemical Detection of Heavy Metal Ions Using Carbon Film-based Electrodes. <i>Bunseki Kagaku</i> , 2021, 70, 101-109.	0.2	1
6	Affinity Diversification of a Polymer Probe for Pattern-recognition-based Biosensing Using Chemical Additives. <i>Analytical Sciences</i> , 2021, 37, 713-719.	1.6	3
7	Withanolide Derivative 2,3-Dihydro-3 ¹² -methoxy Withaferin-A Modulates the Circadian Clock via Interaction with RAR-Related Orphan Receptor \pm (ROR α). <i>Journal of Natural Products</i> , 2021, 84, 1882-1888.	3.0	6
8	Quadruplex Folding Promotes the Condensation of Linker Histones and DNAs via Liquid-Liquid Phase Separation. <i>Journal of the American Chemical Society</i> , 2021, 143, 9849-9857.	13.7	36
9	Uncharged Components of Single-Stranded DNA Modulate Liquid-Liquid Phase Separation With Cationic Linker Histone H1. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 710729.	3.7	6
10	Pattern-recognition-based Identification of Proteases and Their Complexes by a One-component Array Composed of a Dansyl-modified Charged Polymer. <i>Sensors and Materials</i> , 2021, 33, 233.	0.5	2
11	Development of gapmer antisense oligonucleotide with deoxyribonucleic guanidine (DNG) modifications. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020, 39, 258-269.	1.1	3
12	A Multichannel Pattern-Recognition-Based Protein Sensor with a Fluorophore-Conjugated Single-Stranded DNA Set. <i>Sensors</i> , 2020, 20, 5110.	3.8	10
13	Coelenterazine Analogue with Human Serum Albumin-Specific Bioluminescence. <i>Bioconjugate Chemistry</i> , 2020, 31, 2679-2684.	3.6	14
14	Quantitative analysis of global 5-methyl- and 5-hydroxymethylcytosine in TET1 expressed HEK293T cells. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112472.	10.1	4
15	Microfluidic Sensing System with a Multichannel Surface Plasmon Resonance Chip: Damage-Free Characterization of Cells by Pattern Recognition. <i>Analytical Chemistry</i> , 2020, 92, 14939-14946.	6.5	12
16	A Biomimetic Sensor Array Based on a Single Fluorescent Block-copolymer for the Pattern Recognition of Proteins. <i>Chemistry Letters</i> , 2020, 49, 1447-1451.	1.3	1
17	Systematic Investigation of Molecular Recognition Ability in FET-Based Chemical Sensors Functionalized with a Mixed Self-Assembled Monolayer System. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15903-15910.	8.0	12
18	Oxidation potential-dependent selective detection of epigenetic 5-hydroxymethylcytosine using nanocarbon film. <i>Sensors and Actuators B: Chemical</i> , 2020, 314, 128092.	7.8	5

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19	The Power of Assemblies at Interfaces: Nanosensor Platforms Based on Synthetic Receptor Membranes. Sensors, 2020, 20, 2228.	3.8	7
20	Pattern-recognition-based Sensor Arrays for Cell Characterization: From Materials and Data Analyses to Biomedical Applications. Analytical Sciences, 2020, 36, 923-934.	1.6	12
21	Molecular array device and multivariate analysis for biological fluids. Denki Kagaku, 2020, 88, 262-271.	0.0	1
22	Array-based Generation of Response Patterns with Common Fluorescent Dyes for Identification of Proteins and Cells. Analytical Sciences, 2019, 35, 99-102.	1.6	2
23	Development of portable immunoassay device for future Internet of Things applications. , 2019, , 87-103.		0
24	Sequential Assessment of Multiple Epigenetic Modifications of Cytosine in Whole Genomic DNA by Surface Plasmon Resonance. Analytical Chemistry, 2019, 91, 13933-13939.	6.5	8
25	Potentiometric detection of biogenic amines utilizing affinity on a 4-mercaptobenzoic acid monolayer. Analytical Methods, 2019, 11, 1155-1158.	2.7	14
26	Biomimicry Recognition of Proteins and Cells Using a Small Array of Block Copolymers Appended with Amino Acids and Fluorophores. ACS Applied Materials & Interfaces, 2019, 11, 6751-6758.	8.0	22
27	Immobilization of DNA on Biosensing Devices with Nitrogen Mustardâ€“Modified Linkers. Current Protocols in Nucleic Acid Chemistry, 2019, 77, e85.	0.5	6
28	Increased electrode activity during geosmin oxidation provided by Pt nanoparticle-embedded nanocarbon film. Nanoscale, 2019, 11, 8845-8854.	5.6	4
29	One-Component Array Based on a Dansyl-Modified Polylysine: Generation of Differential Fluorescent Signatures for the Discrimination of Human Cells. ACS Sensors, 2019, 4, 827-831.	7.8	20
30	Optical Fingerprints of Proteases and Their Inhibited Complexes Provided by Differential Cross-Reactivity of Fluorophore-Labeled Single-Stranded DNA. ACS Applied Materials & Interfaces, 2019, 11, 47428-47436.	8.0	11
31	Fingerprint-based Protein Identification in Cell Culture Medium Using Environment-sensitive Turn-on Fluorescent Polymer. Sensors and Materials, 2019, 31, 1.	0.5	9
32	Immobilization of DNA with nitrogen mustardâ€“biotin conjugate for global epigenetic analysis. Analytica Chimica Acta, 2018, 1043, 107-114.	5.4	10
33	Nanocarbon Film Electrodes Can Expand the Possibility of Electroanalysis. Bunseki Kagaku, 2018, 67, 635-645.	0.2	0
34	N6-Methylation Assessment in <i>Escherichia coli</i> 23S rRNA Utilizing a Bulge Loop in an RNAâ€“DNA Hybrid. Analytical Chemistry, 2018, 90, 7578-7582.	6.5	4
35	Bisulfite-free approaches for DNA methylation profiling. Analytical Methods, 2017, 9, 1537-1549.	2.7	11
36	Epigenetic regulation of the circadian clock: role of 5-aza-2â€“deoxycytidine. Bioscience Reports, 2017, 37, .	2.4	14

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37	On-Chip Evaluation of DNA Methylation with Electrochemical Combined Bisulfite Restriction Analysis Utilizing a Carbon Film Containing a Nanocrystalline Structure. <i>Analytical Chemistry</i> , 2017, 89, 5976-5982.	6.5	12
38	Environment-Sensitive Turn-On Fluorescent Polyamino Acid: Fingerprinting Protein Populations with Post-Translational Modifications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22970-22976.	8.0	27
39	An alkylating immobilization linker for immunochemical epigenetic assessment. <i>Chemical Communications</i> , 2017, 53, 8308-8311.	4.1	13
40	One-Step Identification of Antibody Degradation Pathways Using Fluorescence Signatures Generated by Cross-Reactive DNA-Based Arrays. <i>Analytical Chemistry</i> , 2017, 89, 7818-7822.	6.5	16
41	Protein Sensing Based on Cross-reactive Optical Fingerprinting. <i>Bunseki Kagaku</i> , 2017, 66, 1-10.	0.2	0
42	A Multi-Fluorescent DNA/Graphene Oxide Conjugate Sensor for Signature-Based Protein Discrimination. <i>Sensors</i> , 2017, 17, 2194.	3.8	21
43	Label-Free Detection of Human Glycoprotein (CgA) Using an Extended-Gated Organic Transistor-Based Immunosensor. <i>Sensors</i> , 2016, 16, 2033.	3.8	29
44	The Use of an Enzyme-based Sensor Array to Fingerprint Proteomic Signatures of Sera from Different Mammalian Species. <i>Analytical Sciences</i> , 2016, 32, 237-240.	1.6	8
45	Artificial Modification of an Enzyme for Construction of Cross-Reactive Polyion Complexes To Fingerprint Signatures of Proteins and Mammalian Cells. <i>Analytical Chemistry</i> , 2016, 88, 9079-9086.	6.5	29
46	Microfluidic platforms for DNA methylation analysis. <i>Lab on A Chip</i> , 2016, 16, 3631-3644.	6.0	29
47	Selective nitrate detection by an enzymatic sensor based on an extended-gate type organic field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2016, 81, 87-91.	10.1	73
48	Effect of the sp ² /sp ³ Ratio in a Hybrid Nanocarbon Thin Film Electrode for Anodic Stripping Voltammetry Fabricated by Unbalanced Magnetron Sputtering Equipment. <i>Analytical Sciences</i> , 2015, 31, 635-641.	1.6	16
49	An Organic Field-effect Transistor with an Extended-gate Electrode Capable of Detecting Human Immunoglobulin A. <i>Analytical Sciences</i> , 2015, 31, 725-728.	1.6	32
50	A polyion complex sensor array for markerless and noninvasive identification of differentiated mesenchymal stem cells from human adipose tissue. <i>Chemical Science</i> , 2015, 6, 5831-5836.	7.4	31
51	Site-specific immunochemical methylation assessment from genome DNA utilizing a conformational difference between looped-out target and stacked-in nontarget methylcytosines. <i>Biosensors and Bioelectronics</i> , 2015, 70, 366-371.	10.1	16
52	On-Chip Sequence-Specific Immunochemical Epigenomic Analysis Utilizing Outward-Turned Cytosine in a DNA Bulge with Handheld Surface Plasmon Resonance Equipment. <i>Analytical Chemistry</i> , 2015, 87, 11581-11586.	6.5	34
53	Electrochemical assessment of local cytosine methylation in genomic DNA on a nanocarbon film electrode fabricated by unbalanced magnetron sputtering. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 816-822.	7.8	21
54	A Label-Free Immunosensor for IgG Based on an Extended-Gate Type Organic Field Effect Transistor. <i>Materials</i> , 2014, 7, 6843-6852.	2.9	53

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55	Accurate and reproducible detection of proteins in water using an extended-gate type organic transistor biosensor. Applied Physics Letters, 2014, 104, .	3.3	85
56	Anodic Stripping Voltammetric Determination of Cd and Pb with Nanocarbon Film Electrode Fabricated by Unbalanced Magnetron Sputtering. Electrochemistry, 2014, 82, 949-953.	1.4	8
57	Indoor allergen assessment quantified by a thin-layer electrochemical cell and magnetic beads. Biosensors and Bioelectronics, 2013, 48, 43-48.	10.1	3
58	4i1/4ŽāfŠāfŽā,«āf1/4āfœāf3è–,è†œā,’āˆ©ç””ā–āŸæ©Ÿèf1/2æŒé»æŸµā%µæĥāfā,ā,ā,»āf3ā,āf3ā,°. Electrochemistry, 2013, 81, 3	1.4	8
59	Development of Electrochemiluminescence and Surface Plasmon Resonance based Immunosensors with Surface Accumulable Molecules.. Materials Research Society Symposia Proceedings, 2012, 1415, 109.	0.1	0
60	Redox alters yellow dragonflies into red. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12626-12631.	7.1	71
61	An sp2 and sp3 Hybrid Nanocrystalline Carbon Film Electrode for Anodic Stripping Voltammetry and Its Application for Electrochemical Immunoassay. Analytical Sciences, 2012, 28, 13-20.	1.6	9
62	DNA Methylation Analysis Triggered by Bulge Specific Immuno-Recognition. Analytical Chemistry, 2012, 84, 7533-7538.	6.5	38
63	Electrochemical Surface Plasmon Resonance Measurement Based on Gold Nanohole Array Fabricated by Nanoimprinting Technique. Analytical Chemistry, 2012, 84, 3187-3191.	6.5	49
64	Determination of DNA Methylation Using Electrochemiluminescence with Surface Accumulable Coreactant. Analytical Chemistry, 2012, 84, 1799-1803.	6.5	79
65	Development of a mass-producible on-chip plasmonic nanohole array biosensor. Nanoscale, 2011, 3, 5067.	5.6	63
66	Efficient Direct Electron Transfer with Enzyme on a Nanostructured Carbon Film Fabricated with a Maskless Top-Down UV/Ozone Process. Journal of the American Chemical Society, 2011, 133, 4840-4846.	13.7	63
67	Bifunctional Tri(ethylene glycol) Alkanethiol Monolayer Modified Gold Electrode for On-Chip Electrochemical Immunoassay of pg Level Leptin. Analytical Sciences, 2011, 27, 465-469.	1.6	3
68	Electrochemical Determination of Oxidative Damaged DNA with High Sensitivity and Stability Using a Nanocarbon Film. Analytical Sciences, 2011, 27, 703.	1.6	30
69	One-chip biosensor for simultaneous disease marker/calibration substance measurement in human urine by electrochemical surface plasmon resonance method. Biosensors and Bioelectronics, 2010, 26, 1536-1542.	10.1	17
70	Development of Electrogenenerated Chemiluminescence-Based Enzyme Linked Immunosorbent Assay for Sub-pM Detection. Analytical Chemistry, 2010, 82, 1692-1697.	6.5	86
71	Maniaturized Chip Analysis for Realizing Personalized Medicine. Journal of the Japan Society for Precision Engineering, 2010, 76, 46-49.	0.1	0
72	Simultaneous On-chip Surface Plasmon Resonance Measurement of Disease Marker Protein and Small Metabolite. ECS Transactions, 2009, 16, 61-66.	0.5	0

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73	Fabrication of electrochemically stable fluorinated nano-carbon film compared with other fluorinated carbon materials. Carbon, 2009, 47, 1943-1952.	10.3	48
74	Surface Accumulable Coreactant for Bright Electrogenenerated Chemiluminescence at Trace Level Concentrations. Chemistry Letters, 2009, 38, 804-805.	1.3	6
75	Comparison of Electrochemical and Surface Plasmon Resonance Immunosensor Responses on Single Thin Film. Electroanalysis, 2008, 20, 2241-2246.	2.9	6
76	Nanohybrid Carbon Film for Electrochemical Detection of SNPs without Hybridization or Labeling. Angewandte Chemie - International Edition, 2008, 47, 6681-6684.	13.8	79
77	Surface modification of thin polyion complex film for surface plasmon resonance immunosensor. Sensors and Actuators B: Chemical, 2008, 130, 320-325.	7.8	12
78	Improved detection limit for an electrochemical β -aminobutyric acid sensor based on stable NADPH detection using an electron cyclotron resonance sputtered carbon film electrode. Sensors and Actuators B: Chemical, 2008, 129, 442-449.	7.8	30
79	Controllable electrode activities of nano-carbon films while maintaining surface flatness by electrochemical pretreatment. Carbon, 2008, 46, 1918-1926.	10.3	58
80	A Nanocarbon Film Electrode as a Platform for Exploring DNA Methylation. Journal of the American Chemical Society, 2008, 130, 3716-3717.	13.7	163
81	Simultaneous On-chip Surface Plasmon Resonance Measurement of Disease Marker Protein and Small Metabolite Combined with Immuno- and Enzymatic Reactions. Chemistry Letters, 2008, 37, 698-699.	1.3	12
82	Highly-sensitive Biosensors with Chemically-amplified Responses. Electrochemistry, 2008, 76, 515-521.	1.4	4
83	Electrochemical Surface Plasmon Resonance Measurement in a Microliter Volume Flow Cell for Evaluating the Affinity and Catalytic Activity of Biomolecules. Analytical Chemistry, 2007, 79, 9572-9576.	6.5	19
84	Structure and Electrochemical Properties of Carbon Films Prepared by a Electron Cyclotron Resonance Sputtering Method. Analytical Chemistry, 2007, 79, 98-105.	6.5	93
85	Heavy Phosphate Adsorption on Amorphous ITO Film Electrodes: Nano-Barrier Effect for Highly Selective Exclusion of Anionic Species. Langmuir, 2007, 23, 8400-8405.	3.5	15
86	New Advances in Nanomedicine: Diagnosis and Preventive Medicine. Medical Clinics of North America, 2007, 91, 871-879.	2.5	5
87	Electrochemically amplified detection for lipopolysaccharide using ferrocenylboronic acid. Biosensors and Bioelectronics, 2007, 22, 1527-1531.	10.1	44
88	Electrochemical Performance of Angstrom Level Flat Sputtered Carbon Film Consisting of sp ² and sp ³ Mixed Bonds. Journal of the American Chemical Society, 2006, 128, 7144-7145.	13.7	170
89	On-Chip Enzyme Immunoassay of a Cardiac Marker Using a Microfluidic Device Combined with a Portable Surface Plasmon Resonance System. Analytical Chemistry, 2006, 78, 5525-5531.	6.5	156
90	Surface Modification of Thin Polyion Complex Film with a High Specific Binding Affinity and Prevention of Non-specific Adsorption in Surface Plasmon Resonance Immunoassay. Electrochemistry, 2006, 74, 121-124.	1.4	10

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91	Miniaturized one-chip electrochemical sensing device integrated with a dialysis membrane and double thin-layer flow channels for measuring blood samples. Biosensors and Bioelectronics, 2006, 21, 1649-1653.	10.1	49
92	The highly sensitive detection of catecholamines using a microfluidic device integrated with an enzyme-modified pre-reactor for interferent elimination and an interdigitated array electrode. Journal of Electroanalytical Chemistry, 2005, 579, 215-222.	3.8	30
93	On-Line Monolithic Enzyme Reactor Fabricated by Sol-Gel Process for Elimination of Ascorbic Acid While Monitoring Dopamine. Electroanalysis, 2005, 17, 231-238.	2.9	22
94	Reductive H ₂ O ₂ Detection at Nanoparticle Iridium/Carbon Film Electrode and Its Application as L-Glutamate Enzyme Sensor. Electroanalysis, 2004, 16, 54-59.	2.9	52
95	Biocompatible glucose sensor prepared by modifying protein and vinylferrocene monomer composite membrane. Biosensors and Bioelectronics, 2004, 20, 518-523.	10.1	27
96	On-line microfluidic sensor integrated with a micro array electrode and enzyme-modified pre-reactor for the real-time monitoring of blood catecholamine. Electrochemistry Communications, 2003, 5, 1037-1042.	4.7	37
97	Selective detection of l-glutamate using a microfluidic device integrated with an enzyme-modified pre-reactor and an electrochemical detector. Biosensors and Bioelectronics, 2003, 18, 1249-1255.	10.1	33
98	Continuous Measurement of Glutamate and Hydrogen Peroxide Using a Microfabricated Biosensor for Studying the Neurotoxicity of Tributyltin. Analytical Sciences, 2003, 19, 1581-1585.	1.6	19
99	Differential measurement with a microfluidic device for the highly selective continuous measurement of histamine released from rat basophilic leukemia cells (RBL-2H3). Lab on A Chip, 2002, 2, 34.	6.0	22
100	Microfabricated On-Line Electrochemical Flow Cell Integrated with Small Volume Pre-Reactor for Highly Selective Detection of Biomolecules. Electroanalysis, 2002, 14, 333-338.	2.9	15
101	Real-Time Monitoring of Histamine Released from Rat Basophilic Leukemia (RBL-2H3) Cells with a Histamine Microsensor Using Recombinant Histamine Oxidase. Analytical Biochemistry, 2002, 304, 236-243.	2.4	30
102	Microfluidic device integrated with pre-reactor and dual enzyme-modified microelectrodes for monitoring in vivo glucose and lactate. Sensors and Actuators B: Chemical, 2002, 87, 296-303.	7.8	77
103	Bioanalytical Devices for Highly Selective Measurement of in Vivo Biochemicals. , 2002, , 494-496.		0
104	Improvement in signal reliability when measuring l-glutamate released from cultured cells using multi-channel microfabricated sensors. Analytica Chimica Acta, 2001, 441, 165-174.	5.4	22
105	Bioanalytical Devices for Highly Selective Measurement of Transmitters From Cultured Cells. , 2001, , 303-304.		0
106	Miniaturized thin-layer radial flow cell with interdigitated ring-shaped microarray electrode used as amperometric detector for capillary electrophoresis. Journal of Chromatography A, 2000, 891, 149-156.	3.7	20
107	Continuous measurement of histamine from rat basophilic leukemia cells (RBL-2H3) with an on-line sensor using histamine oxidase. Sensors and Actuators B: Chemical, 2000, 67, 43-51.	7.8	32
108	Fabrication and electrochemical properties of an interdigitated array electrode in a microfabricated wall-jet cell. Sensors and Actuators B: Chemical, 2000, 71, 82-89.	7.8	40

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109	Real-time electrochemical imaging using an individually addressable multi-channel electrode. Biosensors and Bioelectronics, 2000, 15, 523-529.	10.1	30
110	Subnanoliter Volume Wall-Jet Cells Combined with Interdigitated Microarray Electrode and Enzyme Modified Planar Microelectrode. Analytical Chemistry, 2000, 72, 949-955.	6.5	46
111	Carbon Film-Based Interdigitated Array Microelectrode Used in Capillary Electrophoresis with Electrochemical Detection. Analytical Chemistry, 2000, 72, 1315-1321.	6.5	47
112	NADH and glutamate on-line sensors using Os-gel-HRP/GC electrodes modified with NADH oxidase and glutamate dehydrogenase. Biosensors and Bioelectronics, 1999, 14, 631-638.	10.1	36
113	Continuous Monitoring of L-Glutamate Released from Cultured Rat Nerve Cells with a Microfabricated On-Line Sensor at a Slow Flow Rate. Electroanalysis, 1999, 11, 356-361.	2.9	33
114	Small-Volume On-Line Sensor for Continuous Measurement of ^3H -Aminobutyric Acid. Analytical Chemistry, 1998, 70, 89-93.	6.5	64
115	On-Line Electrochemical Sensor for Selective Continuous Measurement of Acetylcholine in Cultured Brain Tissue. Analytical Chemistry, 1998, 70, 1126-1132.	6.5	62
116	Microfabricated On-Line Sensor for Continuous Monitoring of L-Glutamate.. Analytical Sciences, 1998, 14, 947-953.	1.6	28
117	Microfabricated Biosensors for Measuring Neurotransmitters from Cultured Nerve Cells. , 1998, , 93-96.		0
118	Design of Coelenterazine Analogue to Reveal Bioluminescent Reaction of Human Serum Albumin. , 0, , .		0