Ryoji Kurita

List of Publications by Year
in descending order

118 papers	3,175 citations	136740 32 h-index	174990 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. Journal of Materials Chemistry B, 2022, 10, 7581-7590.	2.9	6
2	Polymer-based chemical-nose systems for optical-pattern recognition of gut microbiota. Chemical Science, 2022, 13, 5830-5837.	3.7	12
3	Direct Capture and Amplification of Small Fragmented DNAs Using Nitrogen-Mustard-Coated Microbeads. Analytical Chemistry, 2022, 94, 7594-7600.	3.2	1
4	Mix-and-read bioluminescent copper detection platform using a caged coelenterazine analogue. Analyst, The, 2021, 146, 6139-6144.	1.7	2
5	Highly Sensitive Electrochemical Detection of Heavy Metal Ions Using Carbon Film-based Electrodes. Bunseki Kagaku, 2021, 70, 101-109.	0.1	1
6	Affinity Diversification of a Polymer Probe for Pattern-recognition-based Biosensing Using Chemical Additives. Analytical Sciences, 2021, 37, 713-719.	0.8	3
7	Withanolide Derivative 2,3-Dihydro-3Î²-methoxy Withaferin-A Modulates the Circadian Clock via Interaction with RAR-Related Orphan Receptor Î± (RORa). Journal of Natural Products, 2021, 84, 1882-1888.	1.5	6
8	Quadruplex Folding Promotes the Condensation of Linker Histones and DNAs via Liquidâ€“Liquid Phase Separation. Journal of the American Chemical Society, 2021, 143, 9849-9857.	6.6	36
9	Uncharged Components of Single-Stranded DNA Modulate Liquidâ€“Liquid Phase Separation With Cationic Linker Histone H1. Frontiers in Cell and Developmental Biology, 2021, 9, 710729.	1.8	6
10	Pattern-recognition-based Identification of Proteases and Their Complexes by a One-component Array Composed of a Dansyl-modified Charged Polymer. Sensors and Materials, 2021, 33, 233.	0.3	2
11	Development of gapmer antisense oligonucleotide with deoxyribonucleic guanidine (DNG) modifications. Nucleosides, Nucleotides and Nucleic Acids, 2020, 39, 258-269.	0.4	3
12	A Multichannel Pattern-Recognition-Based Protein Sensor with a Fluorophore-Conjugated Single-Stranded DNA Set. Sensors, 2020, 20, 5110.	2.1	10
13	Coelenterazine Analogue with Human Serum Albumin-Specific Bioluminescence. Bioconjugate Chemistry, 2020, 31, 2679-2684.	1.8	14
14	Quantitative analysis of global 5-methyl- and 5-hydroxymethylcytosine in TET1 expressed HEK293T cells. Biosensors and Bioelectronics, 2020, 167, 112472.	5.3	4
15	Microfluidic Sensing System with a Multichannel Surface Plasmon Resonance Chip: Damage-Free Characterization of Cells by Pattern Recognition. Analytical Chemistry, 2020, 92, 14939-14946.	3.2	12
16	A Biomimetic Sensor Array Based on a Single Fluorescent Block-copolymer for the Pattern Recognition of Proteins. Chemistry Letters, 2020, 49, 1447-1451.	0.7	1
17	Systematic Investigation of Molecular Recognition Ability in FET-Based Chemical Sensors Functionalized with a Mixed Self-Assembled Monolayer System. ACS Applied Materials & Interfaces, 2020, 12, 15903-15910.	4.0	12
18	Oxidation potential-dependent selective detection of epigenetic 5-hydroxymethylcytosine using nanocarbon film. Sensors and Actuators B: Chemical, 2020, 314, 128092.	4.0	5

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19	The Power of Assemblies at Interfaces: Nanosensor Platforms Based on Synthetic Receptor Membranes. Sensors, 2020, 20, 2228.	2.1	7
20	Pattern-recognition-based Sensor Arrays for Cell Characterization: From Materials and Data Analyses to Biomedical Applications. Analytical Sciences, 2020, 36, 923-934.	0.8	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.	0.8	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.	3.2	8
25	Potentiometric detection of biogenic amines utilizing affinity on a 4-mercaptobenzoic acid monolayer. Analytical Methods, 2019, 11, 1155-1158.	1.3	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.	4.0	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.	2.8	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.	4.0	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.	4.0	11
31	Fingerprint-based Protein Identification in Cell Culture Medium Using Environment-sensitive Turn-on Fluorescent Polymer. Sensors and Materials, 2019, 31, 1.	0.3	9
32	Immobilization of DNA with nitrogen mustardâ€“biotin conjugate for global epigenetic analysis. Analytica Chimica Acta, 2018, 1043, 107-114.	2.6	10
33	Nanocarbon Film Electrodes Can Expand the Possibility of Electroanalysis. Bunseki Kagaku, 2018, 67, 635-645.	0.1	0
34	N6-Methylation Assessment in Escherichia coli 23S rRNA Utilizing a Bulge Loop in an RNAâ€“DNA Hybrid. Analytical Chemistry, 2018, 90, 7578-7582.	3.2	4
35	Bisulfite-free approaches for DNA methylation profiling. Analytical Methods, 2017, 9, 1537-1549.	1.3	11
36	Epigenetic regulation of the circadian clock: role of 5-aza-2â€²-deoxycytidine. Bioscience Reports, 2017, 37, .	1.1	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. Analytical Chemistry, 2017, 89, 5976-5982.	3.2	12
38	Environment-Sensitive Turn-On Fluorescent Polyamino Acid: Fingerprinting Protein Populations with Post-Translational Modifications. ACS Applied Materials & Interfaces, 2017, 9, 22970-22976.	4.0	27
39	An alkylating immobilization linker for immunochemical epigenetic assessment. Chemical Communications, 2017, 53, 8308-8311.	2.2	13
40	One-Step Identification of Antibody Degradation Pathways Using Fluorescence Signatures Generated by Cross-Reactive DNA-Based Arrays. Analytical Chemistry, 2017, 89, 7818-7822.	3.2	16
41	Protein Sensing Based on Cross-reactive Optical Fingerprinting. Bunseki Kagaku, 2017, 66, 1-10.	0.1	0
42	A Multi-Fluorescent DNA/Graphene Oxide Conjugate Sensor for Signature-Based Protein Discrimination. Sensors, 2017, 17, 2194.	2.1	21
43	Label-Free Detection of Human Glycoprotein (CgA) Using an Extended-Gated Organic Transistor-Based Immunosensor. Sensors, 2016, 16, 2033.	2.1	29
44	The Use of an Enzyme-based Sensor Array to Fingerprint Proteomic Signatures of Sera from Different Mammalian Species. Analytical Sciences, 2016, 32, 237-240.	0.8	8
45	Artificial Modification of an Enzyme for Construction of Cross-Reactive Polyion Complexes To Fingerprint Signatures of Proteins and Mammalian Cells. Analytical Chemistry, 2016, 88, 9079-9086.	3.2	29
46	Microfluidic platforms for DNA methylation analysis. Lab on A Chip, 2016, 16, 3631-3644.	3.1	29
47	Selective nitrate detection by an enzymatic sensor based on an extended-gate type organic field-effect transistor. Biosensors and Bioelectronics, 2016, 81, 87-91.	5.3	73
48	Effect of the sp2/sp3 Ratio in a Hybrid Nanocarbon Thin Film Electrode for Anodic Stripping Voltammetry Fabricated by Unbalanced Magnetron Sputtering Equipment. Analytical Sciences, 2015, 31, 635-641.	0.8	16
49	An Organic Field-effect Transistor with an Extended-gate Electrode Capable of Detecting Human Immunoglobulin A. Analytical Sciences, 2015, 31, 725-728.	0.8	32
50	A polyion complex sensor array for markerless and noninvasive identification of differentiated mesenchymal stem cells from human adipose tissue. Chemical Science, 2015, 6, 5831-5836.	3.7	31
51	Site-specific immunochemical methylation assessment from genome DNA utilizing a conformational difference between looped-out target and stacked-in nontarget methylcytosines. Biosensors and Bioelectronics, 2015, 70, 366-371.	5.3	16
52	On-Chip Sequence-Specific Immunochemical Epigenomic Analysis Utilizing Outward-Turned Cytosine in a DNA Bulge with Handheld Surface Plasmon Resonance Equipment. Analytical Chemistry, 2015, 87, 11581-11586.	3.2	34
53	Electrochemical assessment of local cytosine methylation in genomic DNA on a nanocarbon film electrode fabricated by unbalanced magnetron sputtering. Sensors and Actuators B: Chemical, 2015, 221, 816-822.	4.0	21
54	A Label-Free Immunosensor for IgG Based on an Extended-Gate Type Organic Field Effect Transistor. Materials, 2014, 7, 6843-6852.	1.3	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, .	1.5	85
56	Anodic Stripping Voltammetric Determination of Cd and Pb with Nanocarbon Film Electrode Fabricated by Unbalanced Magnetron Sputtering. Electrochemistry, 2014, 82, 949-953.	0.6	8
57	Indoor allergen assessment quantified by a thin-layer electrochemical cell and magnetic beads. Biosensors and Bioelectronics, 2013, 48, 43-48.	5.3	3
58	4ï¼ŽãƒŠãƒŽã‚«ãƒ¼ãƒœãƒ³è–„è†œã‚’å^©ç”¨ã—ãŸæ©Ÿèƒ½æ€§é›»æ¥µå‰µæˆã¨ãƒã‚¤ã‚ªã‚»ãƒ³ã‚·ãƒ³ã‚°. Electrochemistry, 2013, 81, 36	0.6	1
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.	3.3	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.	0.8	9
62	DNA Methylation Analysis Triggered by Bulge Specific Immuno-Recognition. Analytical Chemistry, 2012, 84, 7533-7538.	3.2	38
63	Electrochemical Surface Plasmon Resonance Measurement Based on Gold Nanohole Array Fabricated by Nanoimprinting Technique. Analytical Chemistry, 2012, 84, 3187-3191.	3.2	49
64	Determination of DNA Methylation Using Electrochemiluminescence with Surface Accumulable Coreactant. Analytical Chemistry, 2012, 84, 1799-1803.	3.2	79
65	Development of a mass-producible on-chip plasmonic nanohole array biosensor. Nanoscale, 2011, 3, 5067.	2.8	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.	6.6	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.	0.8	3
68	Electrochemical Determination of Oxidative Damaged DNA with High Sensitivity and Stability Using a Nanocarbon Film. Analytical Sciences, 2011, 27, 703.	0.8	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.	5.3	17
70	Development of Electrogenerated Chemiluminescence-Based Enzyme Linked Immunosorbent Assay for Sub-pM Detection. Analytical Chemistry, 2010, 82, 1692-1697.	3.2	86
71	Maniaturized Chip Analysis for Realizing Personalized Medicine. Journal of the Japan Society for Precision Engineering, 2010, 76, 46-49.	0.0	0
72	Simultaneous On-chip Surface Plasmon Resonance Measurement of Disease Marker Protein and Small Metabolite. ECS Transactions, 2009, 16, 61-66.	0.3	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.	5.4	48
74	Surface Accumulable Coreactant for Bright Electrogenerated Chemiluminescence at Trace Level Concentrations. Chemistry Letters, 2009, 38, 804-805.	0.7	6
75	Comparison of Electrochemical and Surface Plasmon Resonance Immunosensor Responses on Single Thin Film. Electroanalysis, 2008, 20, 2241-2246.	1.5	6
76	Nanohybrid Carbon Film for Electrochemical Detection of SNPs without Hybridization or Labeling. Angewandte Chemie - International Edition, 2008, 47, 6681-6684.	7.2	79
77	Surface modification of thin polyion complex film for surface plasmon resonance immunosensor. Sensors and Actuators B: Chemical, 2008, 130, 320-325.	4.0	12
78	Improved detection limit for an electrochemical Î³-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.	4.0	30
79	Controllable electrode activities of nano-carbon films while maintaining surface flatness by electrochemical pretreatment. Carbon, 2008, 46, 1918-1926.	5.4	58
80	A Nanocarbon Film Electrode as a Platform for Exploring DNA Methylation. Journal of the American Chemical Society, 2008, 130, 3716-3717.	6.6	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.	0.7	12
82	Highly-sensitive Biosensors with Chemically-amplified Responses. Electrochemistry, 2008, 76, 515-521.	0.6	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.	3.2	19
84	Structure and Electrochemical Properties of Carbon Films Prepared by a Electron Cyclotron Resonance Sputtering Method. Analytical Chemistry, 2007, 79, 98-105.	3.2	93
85	Heavy Phosphate Adsorption on Amorphous ITO Film Electrodes:â€‰ Nano-Barrier Effect for Highly Selective Exclusion of Anionic Species. Langmuir, 2007, 23, 8400-8405.	1.6	15
86	New Advances in Nanomedicine: Diagnosis and Preventive Medicine. Medical Clinics of North America, 2007, 91, 871-879.	1.1	5
87	Electrochemically amplified detection for lipopolysaccharide using ferrocenylboronic acid. Biosensors and Bioelectronics, 2007, 22, 1527-1531.	5.3	44
88	Electrochemical Performance of Angstrom Level Flat Sputtered Carbon Film Consisting of sp2and sp3Mixed Bonds. Journal of the American Chemical Society, 2006, 128, 7144-7145.	6.6	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.	3.2	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.	0.6	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.	5.3	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.	1.9	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.	1.5	22
94	Reductive H2O2 Detection at Nanoparticle Iridium/Carbon Film Electrode and Its Application asL-Glutamate Enzyme Sensor. Electroanalysis, 2004, 16, 54-59.	1.5	52
95	Biocompatible glucose sensor prepared by modifying protein and vinylferrocene monomer composite membrane. Biosensors and Bioelectronics, 2004, 20, 518-523.	5.3	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.	2.3	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.	5.3	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.	0.8	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.	3.1	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.	1.5	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.	1.1	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.	4.0	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.	2.6	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.	1.8	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.	4.0	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.	4.0	40

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109	Real-time electrochemical imaging using an individually addressable multi-channel electrode. Biosensors and Bioelectronics, 2000, 15, 523-529.	5.3	30
110	Subnanoliter Volume Wall-Jet Cells Combined with Interdigitated Microarray Electrode and Enzyme Modified Planar Microelectrode. Analytical Chemistry, 2000, 72, 949-955.	3.2	46
111	Carbon Film-Based Interdigitated Array Microelectrode Used in Capillary Electrophoresis with Electrochemical Detection. Analytical Chemistry, 2000, 72, 1315-1321.	3.2	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.	5.3	36
113	Continuous Monitoring ofL-Glutamate Released from Cultured Rat Nerve Cells with a Microfabricated On-Line Sensor at a Slow Flow Rate. Electroanalysis, 1999, 11, 356-361.	1.5	33
114	Small-Volume On-Line Sensor for Continuous Measurement of Î³-Aminobutyric Acid. Analytical Chemistry, 1998, 70, 89-93.	3.2	64
115	On-Line Electrochemical Sensor for Selective Continuous Measurement of Acetylcholine in Cultured Brain Tissue. Analytical Chemistry, 1998, 70, 1126-1132.	3.2	62
116	Microfabricated On-Line Sensor for Continuous Monitoring of L-Glutamate.. Analytical Sciences, 1998, 14, 947-953.	0.8	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