

# 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	Electrochemical Performance of Angstrom Level Flat Sputtered Carbon Film Consisting of sp <sup>2</sup> and sp <sup>3</sup> Mixed Bonds. Journal of the American Chemical Society, 2006, 128, 7144-7145.	13.7	170
2	A Nanocarbon Film Electrode as a Platform for Exploring DNA Methylation. Journal of the American Chemical Society, 2008, 130, 3716-3717.	13.7	163
3	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
4	Structure and Electrochemical Properties of Carbon Films Prepared by a Electron Cyclotron Resonance Sputtering Method. Analytical Chemistry, 2007, 79, 98-105.	6.5	93
5	Development of Electrogenenerated Chemiluminescence-Based Enzyme Linked Immunosorbent Assay for Sub-pM Detection. Analytical Chemistry, 2010, 82, 1692-1697.	6.5	86
6	Accurate and reproducible detection of proteins in water using an extended-gate type organic transistor biosensor. Applied Physics Letters, 2014, 104, .	3.3	85
7	Nanohybrid Carbon Film for Electrochemical Detection of SNPs without Hybridization or Labeling. Angewandte Chemie - International Edition, 2008, 47, 6681-6684.	13.8	79
8	Determination of DNA Methylation Using Electrochemiluminescence with Surface Accumulable Coreactant. Analytical Chemistry, 2012, 84, 1799-1803.	6.5	79
9	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
10	Selective nitrate detection by an enzymatic sensor based on an extended-gate type organic field-effect transistor. Biosensors and Bioelectronics, 2016, 81, 87-91.	10.1	73
11	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
12	Small-Volume On-Line Sensor for Continuous Measurement of [ <sup>3</sup> H]-Aminobutyric Acid. Analytical Chemistry, 1998, 70, 89-93.	6.5	64
13	Development of a mass-producible on-chip plasmonic nanohole array biosensor. Nanoscale, 2011, 3, 5067.	5.6	63
14	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
15	On-Line Electrochemical Sensor for Selective Continuous Measurement of Acetylcholine in Cultured Brain Tissue. Analytical Chemistry, 1998, 70, 1126-1132.	6.5	62
16	Controllable electrode activities of nano-carbon films while maintaining surface flatness by electrochemical pretreatment. Carbon, 2008, 46, 1918-1926.	10.3	58
17	A Label-Free Immunosensor for IgG Based on an Extended-Gate Type Organic Field Effect Transistor. Materials, 2014, 7, 6843-6852.	2.9	53
18	Reductive H <sub>2</sub> O <sub>2</sub> Detection at Nanoparticle Iridium/Carbon Film Electrode and Its Application as L-Glutamate Enzyme Sensor. Electroanalysis, 2004, 16, 54-59.	2.9	52

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19	Miniaturized one-chip electrochemical sensing device integrated with a dialysis membrane and double thin-layer flow channels for measuring blood samples. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1649-1653.	10.1	49
20	Electrochemical Surface Plasmon Resonance Measurement Based on Gold Nanohole Array Fabricated by Nanoimprinting Technique. <i>Analytical Chemistry</i> , 2012, 84, 3187-3191.	6.5	49
21	Fabrication of electrochemically stable fluorinated nano-carbon film compared with other fluorinated carbon materials. <i>Carbon</i> , 2009, 47, 1943-1952.	10.3	48
22	Carbon Film-Based Interdigitated Array Microelectrode Used in Capillary Electrophoresis with Electrochemical Detection. <i>Analytical Chemistry</i> , 2000, 72, 1315-1321.	6.5	47
23	Subnanoliter Volume Wall-Jet Cells Combined with Interdigitated Microarray Electrode and Enzyme Modified Planar Microelectrode. <i>Analytical Chemistry</i> , 2000, 72, 949-955.	6.5	46
24	Electrochemically amplified detection for lipopolysaccharide using ferrocenylboronic acid. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1527-1531.	10.1	44
25	Fabrication and electrochemical properties of an interdigitated array electrode in a microfabricated wall-jet cell. <i>Sensors and Actuators B: Chemical</i> , 2000, 71, 82-89.	7.8	40
26	DNA Methylation Analysis Triggered by Bulge Specific Immuno-Recognition. <i>Analytical Chemistry</i> , 2012, 84, 7533-7538.	6.5	38
27	On-line microfluidic sensor integrated with a micro array electrode and enzyme-modified pre-reactor for the real-time monitoring of blood catecholamine. <i>Electrochemistry Communications</i> , 2003, 5, 1037-1042.	4.7	37
28	NADH and glutamate on-line sensors using Os-gel-HRP/GC electrodes modified with NADH oxidase and glutamate dehydrogenase. <i>Biosensors and Bioelectronics</i> , 1999, 14, 631-638.	10.1	36
29	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
30	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
31	Continuous Monitoring of L-Glutamate Released from Cultured Rat Nerve Cells with a Microfabricated On-Line Sensor at a Slow Flow Rate. <i>Electroanalysis</i> , 1999, 11, 356-361.	2.9	33
32	Selective detection of L-glutamate using a microfluidic device integrated with an enzyme-modified pre-reactor and an electrochemical detector. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1249-1255.	10.1	33
33	Continuous measurement of histamine from rat basophilic leukemia cells (RBL-2H3) with an on-line sensor using histamine oxidase. <i>Sensors and Actuators B: Chemical</i> , 2000, 67, 43-51.	7.8	32
34	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
35	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
36	Real-time electrochemical imaging using an individually addressable multi-channel electrode. <i>Biosensors and Bioelectronics</i> , 2000, 15, 523-529.	10.1	30

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37	Real-Time Monitoring of Histamine Released from Rat Basophilic Leukemia (RBL-2H3) Cells with a Histamine Microsensor Using Recombinant Histamine Oxidase. <i>Analytical Biochemistry</i> , 2002, 304, 236-243.	2.4	30
38	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. <i>Journal of Electroanalytical Chemistry</i> , 2005, 579, 215-222.	3.8	30
39	Improved detection limit for an electrochemical $\text{I}^3$ -aminobutyric acid sensor based on stable NADPH detection using an electron cyclotron resonance sputtered carbon film electrode. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 442-449.	7.8	30
40	Electrochemical Determination of Oxidative Damaged DNA with High Sensitivity and Stability Using a Nanocarbon Film. <i>Analytical Sciences</i> , 2011, 27, 703.	1.6	30
41	Label-Free Detection of Human Glycoprotein (CgA) Using an Extended-Gated Organic Transistor-Based Immunosensor. <i>Sensors</i> , 2016, 16, 2033.	3.8	29
42	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
43	Microfluidic platforms for DNA methylation analysis. <i>Lab on A Chip</i> , 2016, 16, 3631-3644.	6.0	29
44	Microfabricated On-Line Sensor for Continuous Monitoring of L-Glutamate.. <i>Analytical Sciences</i> , 1998, 14, 947-953.	1.6	28
45	Biocompatible glucose sensor prepared by modifying protein and vinylferrocene monomer composite membrane. <i>Biosensors and Bioelectronics</i> , 2004, 20, 518-523.	10.1	27
46	Environment-Sensitive Turn-On Fluorescent Polyamino Acid: Fingerprinting Protein Populations with Post-Translational Modifications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22970-22976.	8.0	27
47	Improvement in signal reliability when measuring l-glutamate released from cultured cells using multi-channel microfabricated sensors. <i>Analytica Chimica Acta</i> , 2001, 441, 165-174.	5.4	22
48	Differential measurement with a microfluidic device for the highly selective continuous measurement of histamine released from rat basophilic leukemia cells (RBL-2H3). <i>Lab on A Chip</i> , 2002, 2, 34.	6.0	22
49	On-Line Monolithic Enzyme Reactor Fabricated by Sol-Gel Process for Elimination of Ascorbic Acid While Monitoring Dopamine. <i>Electroanalysis</i> , 2005, 17, 231-238.	2.9	22
50	Biomimicry Recognition of Proteins and Cells Using a Small Array of Block Copolymers Appended with Amino Acids and Fluorophores. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6751-6758.	8.0	22
51	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
52	A Multi-Fluorescent DNA/Graphene Oxide Conjugate Sensor for Signature-Based Protein Discrimination. <i>Sensors</i> , 2017, 17, 2194.	3.8	21
53	Miniaturized thin-layer radial flow cell with interdigitated ring-shaped microarray electrode used as amperometric detector for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000, 891, 149-156.	3.7	20
54	One-Component Array Based on a Dansyl-Modified Polylysine: Generation of Differential Fluorescent Signatures for the Discrimination of Human Cells. <i>ACS Sensors</i> , 2019, 4, 827-831.	7.8	20

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55	Continuous Measurement of Glutamate and Hydrogen Peroxide Using a Microfabricated Biosensor for Studying the Neurotoxicity of Tributyltin. <i>Analytical Sciences</i> , 2003, 19, 1581-1585.	1.6	19
56	Electrochemical Surface Plasmon Resonance Measurement in a Microliter Volume Flow Cell for Evaluating the Affinity and Catalytic Activity of Biomolecules. <i>Analytical Chemistry</i> , 2007, 79, 9572-9576.	6.5	19
57	One-chip biosensor for simultaneous disease marker/calibration substance measurement in human urine by electrochemical surface plasmon resonance method. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1536-1542.	10.1	17
58	Effect of the sp <sup>2</sup> /sp <sup>3</sup> 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
59	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
60	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
61	Microfabricated On-Line Electrochemical Flow Cell Integrated with Small Volume Pre-Reactor for Highly Selective Detection of Biomolecules. <i>Electroanalysis</i> , 2002, 14, 333-338.	2.9	15
62	Heavy Phosphate Adsorption on Amorphous ITO Film Electrodes: Nano-Barrier Effect for Highly Selective Exclusion of Anionic Species. <i>Langmuir</i> , 2007, 23, 8400-8405.	3.5	15
63	Epigenetic regulation of the circadian clock: role of 5-aza-2'-deoxycytidine. <i>Bioscience Reports</i> , 2017, 37, .	2.4	14
64	Potentiometric detection of biogenic amines utilizing affinity on a 4-mercaptobenzoic acid monolayer. <i>Analytical Methods</i> , 2019, 11, 1155-1158.	2.7	14
65	Coelenterazine Analogue with Human Serum Albumin-Specific Bioluminescence. <i>Bioconjugate Chemistry</i> , 2020, 31, 2679-2684.	3.6	14
66	An alkylating immobilization linker for immunochemical epigenetic assessment. <i>Chemical Communications</i> , 2017, 53, 8308-8311.	4.1	13
67	Surface modification of thin polyion complex film for surface plasmon resonance immunosensor. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 320-325.	7.8	12
68	Simultaneous On-chip Surface Plasmon Resonance Measurement of Disease Marker Protein and Small Metabolite Combined with Immuno- and Enzymatic Reactions. <i>Chemistry Letters</i> , 2008, 37, 698-699.	1.3	12
69	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
70	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
71	Systematic Investigation of Molecular Recognition Ability in FET-Based Chemical Sensors Functionalized with a Mixed Self-Assembled Monolayer System. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15903-15910.	8.0	12
72	Pattern-recognition-based Sensor Arrays for Cell Characterization: From Materials and Data Analyses to Biomedical Applications. <i>Analytical Sciences</i> , 2020, 36, 923-934.	1.6	12

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73	Polymer-based chemical-nose systems for optical-pattern recognition of gut microbiota. Chemical Science, 2022, 13, 5830-5837.	7.4	12
74	Bisulfite-free approaches for DNA methylation profiling. Analytical Methods, 2017, 9, 1537-1549.	2.7	11
75	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
76	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
77	Immobilization of DNA with nitrogen mustard- $\alpha$ -biotin conjugate for global epigenetic analysis. Analytica Chimica Acta, 2018, 1043, 107-114.	5.4	10
78	A Multichannel Pattern-Recognition-Based Protein Sensor with a Fluorophore-Conjugated Single-Stranded DNA Set. Sensors, 2020, 20, 5110.	3.8	10
79	An sp <sup>2</sup> and sp <sup>3</sup> Hybrid Nanocrystalline Carbon Film Electrode for Anodic Stripping Voltammetry and Its Application for Electrochemical Immunoassay. Analytical Sciences, 2012, 28, 13-20.	1.6	9
80	Fingerprint-based Protein Identification in Cell Culture Medium Using Environment-sensitive Turn-on Fluorescent Polymer. Sensors and Materials, 2019, 31, 1.	0.5	9
81	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
82	The Use of an Enzyme-based Sensor Array to Fingerprint Proteomic Signatures of Sera from Different Mammalian Species. Analytical Sciences, 2016, 32, 237-240.	1.6	8
83	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
84	The Power of Assemblies at Interfaces: Nanosensor Platforms Based on Synthetic Receptor Membranes. Sensors, 2020, 20, 2228.	3.8	7
85	Comparison of Electrochemical and Surface Plasmon Resonance Immunosensor Responses on Single Thin Film. Electroanalysis, 2008, 20, 2241-2246.	2.9	6
86	Surface Accumulable Coreactant for Bright Electrogenenerated Chemiluminescence at Trace Level Concentrations. Chemistry Letters, 2009, 38, 804-805.	1.3	6
87	Immobilization of DNA on Biosensing Devices with Nitrogen Mustard- $\alpha$ -Modified Linkers. Current Protocols in Nucleic Acid Chemistry, 2019, 77, e85.	0.5	6
88	Withanolide Derivative 2,3-Dihydro-3 $\beta$ -methoxy Withaferin-A Modulates the Circadian Clock via Interaction with RAR-Related Orphan Receptor $\beta$ (ROR $\beta$ ). Journal of Natural Products, 2021, 84, 1882-1888.	3.0	6
89	Uncharged Components of Single-Stranded DNA Modulate Liquid-Liquid Phase Separation With Cationic Linker Histone H1. Frontiers in Cell and Developmental Biology, 2021, 9, 710729.	3.7	6
90	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.	5.8	6

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91	New Advances in Nanomedicine: Diagnosis and Preventive Medicine. Medical Clinics of North America, 2007, 91, 871-879.	2.5	5
92	Oxidation potential-dependent selective detection of epigenetic 5-hydroxymethylcytosine using nanocarbon film. Sensors and Actuators B: Chemical, 2020, 314, 128092.	7.8	5
93	Highly-sensitive Biosensors with Chemically-amplified Responses. Electrochemistry, 2008, 76, 515-521.	1.4	4
94	N6-Methylation Assessment in <i>Escherichia coli</i> 23S rRNA Utilizing a Bulge Loop in an RNA-DNA Hybrid. Analytical Chemistry, 2018, 90, 7578-7582.	6.5	4
95	Increased electrode activity during geosmin oxidation provided by Pt nanoparticle-embedded nanocarbon film. Nanoscale, 2019, 11, 8845-8854.	5.6	4
96	Quantitative analysis of global 5-methyl- and 5-hydroxymethylcytosine in TET1 expressed HEK293T cells. Biosensors and Bioelectronics, 2020, 167, 112472.	10.1	4
97	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
98	Indoor allergen assessment quantified by a thin-layer electrochemical cell and magnetic beads. Biosensors and Bioelectronics, 2013, 48, 43-48.	10.1	3
99	Development of gapmer antisense oligonucleotide with deoxyribonucleic guanidine (DNG) modifications. Nucleosides, Nucleotides and Nucleic Acids, 2020, 39, 258-269.	1.1	3
100	Affinity Diversification of a Polymer Probe for Pattern-recognition-based Biosensing Using Chemical Additives. Analytical Sciences, 2021, 37, 713-719.	1.6	3
101	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
102	Mix-and-read bioluminescent copper detection platform using a caged coelenterazine analogue. Analyst, The, 2021, 146, 6139-6144.	3.5	2
103	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.	0.5	2
104	Electrochemical detection of aflatoxin B <sub>1</sub> using a carbon nanotube-modified electrode. Electrochemistry, 2013, 81, 304-308.	0.5	2
105	A Biomimetic Sensor Array Based on a Single Fluorescent Block-copolymer for the Pattern Recognition of Proteins. Chemistry Letters, 2020, 49, 1447-1451.	1.3	1
106	Highly Sensitive Electrochemical Detection of Heavy Metal Ions Using Carbon Film-based Electrodes. Bunseki Kagaku, 2021, 70, 101-109.	0.2	1
107	Molecular array device and multivariate analysis for biological fluids. Denki Kagaku, 2020, 88, 262-271.	0.0	1
108	Direct Capture and Amplification of Small Fragmented DNAs Using Nitrogen-Mustard-Coated Microbeads. Analytical Chemistry, 2022, 94, 7594-7600.	6.5	1



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109	Simultaneous On-chip Surface Plasmon Resonance Measurement of Disease Marker Protein and Small Metabolite. ECS Transactions, 2009, 16, 61-66.	0.5	0
110	Development of Electrochemiluminescence and Surface Plasmon Resonance based Immunosensors with Surface Accumulable Molecules.. Materials Research Society Symposia Proceedings, 2012, 1415, 109.	0.1	0
111	Protein Sensing Based on Cross-reactive Optical Fingerprinting. Bunseki Kagaku, 2017, 66, 1-10.	0.2	0
112	Nanocarbon Film Electrodes Can Expand the Possibility of Electroanalysis. Bunseki Kagaku, 2018, 67, 635-645.	0.2	0
113	Development of portable immunoassay device for future Internet of Things applications. , 2019, , 87-103.		0
114	Design of Coelenterazine Analogue to Reveal Bioluminescent Reaction of Human Serum Albumin. , 0, , .		0
115	Bioanalytical Devices for Highly Selective Measurement of Transmitters From Cultured Cells. , 2001, , 303-304.		0
116	Bioanalytical Devices for Highly Selective Measurement of in Vivo Biochemicals. , 2002, , 494-496.		0
117	Maniaturized Chip Analysis for Realizing Personalized Medicine. Journal of the Japan Society for Precision Engineering, 2010, 76, 46-49.	0.1	0
118	Microfabricated Biosensors for Measuring Neurotransmitters from Cultured Nerve Cells. , 1998, , 93-96.		0