

Osamu Niwa

List of Publications by Year in descending order

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200
papers

7,241
citations

47006

47
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76900

74
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204
all docs

204
docs citations

204
times ranked

5955
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Evaluation of DNA Probe Density by Electrochemical Surface Plasmon Resonance Measurement. <i>Sensors and Materials</i> , 2022, 34, 927.	0.5	0
2	Response to: Risk Factors Affecting Cage Retropulsion into the Spinal Canal Following Posterior Lumbar Interbody Fusion: Association with Diffuse Idiopathic Skeletal Hyperostosis. <i>Asian Spine Journal</i> , 2022, 16, 309-310.	2.0	0
3	Nanocarbon film electrodes for electro-analysis and electrochemical sensors. <i>Current Opinion in Electrochemistry</i> , 2022, 35, 101045.	4.8	6
4	Development of a highly sensitive Prussian-blue-based enzymatic biosensor for l-carnitine employing the thiol/disulfide exchange reaction. <i>Analytical Sciences</i> , 2022, 38, 963-968.	1.6	3
5	Porous gold nanomesh films electrodeposited in toluene-based dynamic soft template. <i>Electrochimica Acta</i> , 2022, 426, 140761.	5.2	2
6	Vertically Oriented Metallic Heterodimer Array Semiembedded in Flat Conductive Carbon Film for Electrochemical Application. <i>ACS Nano</i> , 2022, 16, 10589-10599.	14.6	2
7	Electrochemical analysis of ferrocene in bicontinuous microemulsions using β -cyclodextrin modified monolayer graphene electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2022, 920, 116575.	3.8	2
8	Supporting effects of a N-doped carbon film electrode on an electrodeposited Ni@Ni(OH) ₂ core-shell nanocatalyst in accelerating electrocatalytic oxidation of oligosaccharides. <i>RSC Advances</i> , 2021, 11, 13311-13315.	3.6	5
9	Highly Sensitive Electrochemical Detection of Heavy Metal Ions Using Carbon Film-based Electrodes. <i>Bunseki Kagaku</i> , 2021, 70, 101-109.	0.2	1
10	The influence mechanism of the molecular structure on the peak current and peak potential in electrochemical detection of typical quinolone antibiotics. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13873-13877.	2.8	7
11	Hybrid Carbon Film Electrodes for Electroanalysis. <i>Analytical Sciences</i> , 2021, 37, 37-47.	1.6	12
12	Structure and Electrochemical Properties of Nitrogen Containing Nanocarbon Films and Their Electroanalytical Application. <i>Bunseki Kagaku</i> , 2021, 70, 511-520.	0.2	0
13	Electrochemical enzyme biosensor for carnitine detection based on cathodic stripping voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128473.	7.8	9
14	Monolithic Au Nanoscale Films with Tunable Nanoporosity Prepared via Dynamic Soft Templating for Electrocatalytic Oxidation of Methanol. <i>ACS Applied Nano Materials</i> , 2020, 3, 7750-7760.	5.0	6
15	Stand-Alone Semi-Solid-State Electrochemical Systems Based on Bicontinuous Microemulsion Gel Films. <i>Analytical Chemistry</i> , 2020, 92, 14031-14037.	6.5	5
16	Activities of Daily Living after Surgical Treatment for Osteoporotic Vertebral Fracture with or without Diffuse Idiopathic Skeletal Hyperostosis: A Retrospective Single-Institutional Study. <i>Asian Spine Journal</i> , 2020, 14, 847-856.	2.0	0
17	Electrochemical performance at sputter-deposited nanocarbon film with different surface nitrogen-containing groups. <i>Nanoscale</i> , 2019, 11, 10239-10246.	5.6	10
18	Increased electrode activity during geosmin oxidation provided by Pt nanoparticle-embedded nanocarbon film. <i>Nanoscale</i> , 2019, 11, 8845-8854.	5.6	4

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19	Gas-phase Treatment Methods for Chemical Termination of Sputtered Nanocarbon Film Electrodes to Suppress Surface Fouling by Proteins. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 523-528.	0.3	6
20	Selective Au Electrodeposition on Au Nanoparticles Embedded in Carbon Film Electrode for Se(IV) Detection. Sensors and Materials, 2019, 31, 1135.	0.5	6
21	Chromatographic Determination of Sugar Probes Used for Gastrointestinal Permeability Test by Employing Nickel-Copper Nanoalloy Embedded in Carbon Film Electrodes. Electroanalysis, 2018, 30, 1407-1415.	2.9	6
22	Amplified Zinc Signal at a Nanocarbon Film Electrode for Lipopolysaccharide Detection. ACS Applied Nano Materials, 2018, 1, 5425-5429.	5.0	8
23	Nanocarbon Film Electrodes Can Expand the Possibility of Electroanalysis. Bunseki Kagaku, 2018, 67, 635-645.	0.2	0
24	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.	6.5	12
25	Properties of modified surface for biosensing interface. Journal of Colloid and Interface Science, 2017, 497, 309-316.	9.4	7
26	Preface JES Focus Issue on Biosensors and Micro-Nano Fabricated Electromechanical Systems. Journal of the Electrochemical Society, 2017, 164, Y5-Y5.	2.9	3
27	Label-Free Detection of Human Glycoprotein (CgA) Using an Extended-Gated Organic Transistor-Based Immunosensor. Sensors, 2016, 16, 2033.	3.8	29
28	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
29	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.	6.5	29
30	Microfluidic platforms for DNA methylation analysis. Lab on A Chip, 2016, 16, 3631-3644.	6.0	29
31	Electrochemistry in bicontinuous microemulsions based on control of dynamic solution structures on electrode surfaces. Current Opinion in Colloid and Interface Science, 2016, 25, 13-26.	7.4	25
32	Co-sputter deposited nickel-copper bimetallic nanoalloy embedded carbon films for electrocatalytic biomarker detection. Nanoscale, 2016, 8, 12887-12891.	5.6	13
33	Fluorinated Nanocarbon Film Electrode Capable of Signal Amplification for Lipopolysaccharide Detection. Electrochimica Acta, 2016, 197, 152-158.	5.2	15
34	Au Nanoparticle-Embedded Carbon Films for Electrochemical As ³⁺ Detection with High Sensitivity and Stability. Analytical Chemistry, 2016, 88, 2944-2951.	6.5	86
35	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
36	Direct Analysis of Lipophilic Antioxidants of Olive Oils Using Bicontinuous Microemulsions. Analytical Chemistry, 2016, 88, 1202-1209.	6.5	13

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37	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
38	Structure and Electroanalytical Application of Nitrogen-doped Carbon Thin Film Electrode with Lower Nitrogen Concentration. <i>Analytical Sciences</i> , 2015, 31, 651-656.	1.6	11
39	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
40	Influence of Contact Force on Electrochemical Responses of Redox Species Flowing in Nitrocellulose Membrane at Micropyramid Array Electrode. <i>Analytical Sciences</i> , 2015, 31, 729-732.	1.6	7
41	Simultaneous Electrochemical Analysis of Hydrophilic and Lipophilic Antioxidants in Bicontinuous Microemulsion. <i>Analytical Chemistry</i> , 2015, 87, 1489-1493.	6.5	26
42	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
43	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
44	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
45	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
46	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
47	Accurate and reproducible detection of proteins in water using an extended-gate type organic transistor biosensor. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	85
48	Poly(4-vinylpyridine) Modified Nanocarbon Film Electrodes for LPS Detection. <i>Electroanalysis</i> , 2014, 26, 618-624.	2.9	12
49	Thick-matrix-free interface for highly effective protein detection and sufficient signal enhancement. <i>Composite Interfaces</i> , 2014, 21, 631-638.	2.3	0
50	Pd@Ni Alloy Nanoparticle/Carbon Nanofiber Composites: Preparation, Structure, and Superior Electrocatalytic Properties for Sugar Analysis. <i>Analytical Chemistry</i> , 2014, 86, 5898-5905.	6.5	72
51	Pd _x Co _y Nanoparticle/Carbon Nanofiber Composites with Enhanced Electrocatalytic Properties. <i>ACS Catalysis</i> , 2014, 4, 1825-1829.	11.2	78
52	Structure and electrochemical characterization of carbon films formed by unbalanced magnetron (UBM) sputtering method. <i>Diamond and Related Materials</i> , 2014, 49, 25-32.	3.9	50
53	Cytochrome P450 Modified Polycrystalline Indium Tin Oxide Film as a Drug Metabolizing Electrochemical Biosensor with a Simple Configuration. <i>Analytical Chemistry</i> , 2013, 85, 9996-9999.	6.5	24
54	Structure and Electrochemical Performance of Nitrogen-Doped Carbon Film Formed by Electron Cyclotron Resonance Sputtering. <i>Analytical Chemistry</i> , 2013, 85, 9845-9851.	6.5	54

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55	Human cytochrome P450 3A4 and a carbon nanofiber modified film electrode as a platform for the simple evaluation of drug metabolism and inhibition reactions. <i>Analyst</i> , The, 2013, 138, 6463.	3.5	23
56	Indoor allergen assessment quantified by a thin-layer electrochemical cell and magnetic beads. <i>Biosensors and Bioelectronics</i> , 2013, 48, 43-48.	10.1	3
57	Surface Modification of Silicon Oxide with Trialkoxysilanes toward Close-Packed Monolayer Formation. <i>Langmuir</i> , 2013, 29, 6361-6368.	3.5	25
58	Design and Fabrication of Biosensing Interface for Waveguide-Mode Sensor. <i>Langmuir</i> , 2013, 29, 13111-13120.	3.5	21
59	<scp>ONO</scp>â€2506 inhibits spikeâ€wave discharges in a genetic animal model without affecting traditional convulsive tests via gliotransmission regulation. <i>British Journal of Pharmacology</i> , 2013, 168, 1088-1100.	5.4	61
60	Carbon-based Electrode Materials for DNA Electroanalysis. <i>Analytical Sciences</i> , 2013, 29, 385-392.	1.6	19
61	Improved Direct Electrochemistry for Proteins Adsorbed on a UV/Ozone-Treated Carbon Nanofiber Electrode. <i>Analytical Sciences</i> , 2013, 29, 611-618.	1.6	18
62	An sp ² and sp ³ Hybrid Nanocrystalline Carbon Film Electrode for Anodic Stripping Voltammetry and Its Application for Electrochemical Immunoassay. <i>Analytical Sciences</i> , 2012, 28, 13-20.	1.6	9
63	DNA Methylation Analysis Triggered by Bulge Specific Immuno-Recognition. <i>Analytical Chemistry</i> , 2012, 84, 7533-7538.	6.5	38
64	Evaluation of Electrokinetic Parameters for All DNA Bases with Sputter Deposited Nanocarbon Film Electrode. <i>Analytical Chemistry</i> , 2012, 84, 10607-10613.	6.5	18
65	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
66	Design of Biomolecular Interface for Detecting Carbohydrate and Lectin Weak Interactions. <i>Langmuir</i> , 2012, 28, 1846-1851.	3.5	28
67	On-Chip Synthesis of RNA Aptamer Microarrays for Multiplexed Protein Biosensing with SPR Imaging Measurements. <i>Langmuir</i> , 2012, 28, 8281-8285.	3.5	45
68	Determination of DNA Methylation Using Electrochemiluminescence with Surface Accumulable Coreactant. <i>Analytical Chemistry</i> , 2012, 84, 1799-1803.	6.5	79
69	The Structure and Bonding State for Fullerene-Like Carbon Nitride Films with High Hardness Formed by Electron Cyclotron Resonance Plasma Sputtering. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 125602.	1.5	5
70	Development of a mass-producible on-chip plasmonic nanohole array biosensor. <i>Nanoscale</i> , 2011, 3, 5067.	5.6	63
71	Efficient Direct Electron Transfer with Enzyme on a Nanostructured Carbon Film Fabricated with a Maskless Top-Down UV/Ozone Process. <i>Journal of the American Chemical Society</i> , 2011, 133, 4840-4846.	13.7	63
72	Electrochemical DNA Methylation Detection for Enzymatically Digested CpG Oligonucleotides. <i>Analytical Chemistry</i> , 2011, 83, 7595-7599.	6.5	89

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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.	1.6	3
74	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
75	Surface Modification of GC and HOPG with Diazonium, Amine, Azide, and Olefin Derivatives. <i>Langmuir</i> , 2011, 27, 170-178.	3.5	44
76	Development of a Sputtered Nanocarbon Film Based Microdisk Array Electrode for the Highly Stable Detection of Serotonin. <i>Electroanalysis</i> , 2011, 23, 827-831.	2.9	8
77	Enzymatically amplified electrochemical detection for lipopolysaccharide using ferrocene-attached polymyxin B and its analogue. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2080-2084.	10.1	21
78	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.	2.2	9
79	Suppression of Non-specific Adsorption Using Densified Tri(ethylene glycol) alkanethiols: Monolayer Characteristics Evaluated by Electrochemical Measurements. <i>Analytical Sciences</i> , 2010, 26, 33-37.	1.6	15
80	Direct electrochemical detection of DNA methylation for retinoblastoma and CpG fragments using a nanocarbon film. <i>Analytical Biochemistry</i> , 2010, 405, 59-66.	2.4	49
81	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
82	One-Step Detection of Galectins on Hybrid Monolayer Surface with Protruding Lactoside. <i>Analytical Chemistry</i> , 2010, 82, 1175-1178.	6.5	22
83	Development of Electrogenenerated Chemiluminescence-Based Enzyme Linked Immunosorbent Assay for Sub-pM Detection. <i>Analytical Chemistry</i> , 2010, 82, 1692-1697.	6.5	86
84	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.	1.4	27
85	Fabrication of electrochemically stable fluorinated nano-carbon film compared with other fluorinated carbon materials. <i>Carbon</i> , 2009, 47, 1943-1952.	10.3	48
86	Local Imaging of an Electrochemical Active/Inactive Region on a Conductive Carbon Surface by Using Scanning Electrochemical Microscopy. <i>Analytical Sciences</i> , 2009, 25, 645-651.	1.6	5
87	Surface Accumulable Coreactant for Bright Electrogenenerated Chemiluminescence at Trace Level Concentrations. <i>Chemistry Letters</i> , 2009, 38, 804-805.	1.3	6
88	12-Mercaptododecyl β -maltoside-modified gold nanoparticles: specific ligands for concanavalin A having long flexible hydrocarbon chains. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2527-2532.	3.7	22
89	Nanohybrid Carbon Film for Electrochemical Detection of SNPs without Hybridization or Labeling. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6681-6684.	13.8	79
90	Improved detection limit for an electrochemical β -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

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91	Enzyme immunoassay of insulin at picomolar levels based on the coulometric determination of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 304-308.	7.8	20
92	Controllable electrode activities of nano-carbon films while maintaining surface flatness by electrochemical pretreatment. <i>Carbon</i> , 2008, 46, 1918-1926.	10.3	58
93	A Nanocarbon Film Electrode as a Platform for Exploring DNA Methylation. <i>Journal of the American Chemical Society</i> , 2008, 130, 3716-3717.	13.7	163
94	Newly Developed Chemical Probes and Nano-Devices for Cellular Analysis. <i>Analytical Sciences</i> , 2008, 24, 55-66.	1.6	14
95	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
96	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
97	Characterization of a microfluidic device fabricated using a photosensitive sheet. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 432-438.	2.6	13
98	Determination of Hydrogen Peroxide Based on the Charge Accumulation and Electrochemical Reduction at an Osmium Complex/Peroxidase-coated Electrode. <i>Chemistry Letters</i> , 2007, 36, 1148-1149.	1.3	11
99	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
100	Structure and Electrochemical Properties of Carbon Films Prepared by a Electron Cyclotron Resonance Sputtering Method. <i>Analytical Chemistry</i> , 2007, 79, 98-105.	6.5	93
101	Formation of Supramolecular Nanobelt Arrays Consisting of Cobalt(II) β -Picket-Fence-Porphyrin on Au Surfaces. <i>Langmuir</i> , 2007, 23, 809-816.	3.5	32
102	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
103	New Advances in Nanomedicine: Diagnosis and Preventive Medicine. <i>Medical Clinics of North America</i> , 2007, 91, 871-879.	2.5	5
104	Electrochemically amplified detection for lipopolysaccharide using ferrocenylboronic acid. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1527-1531.	10.1	44
105	Hydrogen bonding interaction between aminopurinethiol-monolayers and oligonucleotides by QCM and XPS measurements. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 214-218.	7.8	12
106	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.	13.7	170
107	Fabrication and Characterization of a Nanometer-Sized Optical Fiber Electrode Based on Selective Chemical Etching for Scanning Electrochemical/Optical Microscopy. <i>Analytical Chemistry</i> , 2006, 78, 1904-1912.	6.5	52
108	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.	6.5	156

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109	Measurement of DNA Amount on Gold Plate Based on the Oxidation Current of Guanine. Bunseki Kagaku, 2006, 55, 975-978.	0.2	1
110	2P276 Specific interactions between the carbohydrate on gold nanoparticles and lectins(40. Membrane) Tj ETQq0 0 0 rgBT /Overlock 10 S364.	0.1	0
111	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
112	Fabrication of High Performance Polymeric Microfluidic Device by a Simple Imprinting Method using a Photosensitive Sheet. Japanese Journal of Applied Physics, 2006, 45, L64-L67.	1.5	6
113	Imaging of flow pattern in micro flow channel using surface plasmon resonance. Measurement Science and Technology, 2006, 17, 3184-3188.	2.6	8
114	A Simple Method for Fabrication of Mesoporous Films Using a Rapid Heating Process. Chemistry Letters, 2005, 34, 328-329.	1.3	6
115	Selective Electrochemical Response of Dopamine against 3,4-Dihydroxyphenylacetic Acid at Bare Indium-Tin Oxide Electrode. Chemistry Letters, 2005, 34, 1120-1121.	1.3	21
116	Electroanalytical Chemistry with Carbon Film Electrodes and Micro and Nano-Structured Carbon Film-Based Electrodes. Bulletin of the Chemical Society of Japan, 2005, 78, 555-571.	3.2	55
117	Simultaneous determination of glucose and ascorbic acid by using gold electrode modified with ferrocenylundecanethiol monolayer. Sensors and Actuators B: Chemical, 2005, 108, 617-621.	7.8	14
118	Surface electrochemical enzyme immunoassay for the highly sensitive measurement of B-type natriuretic peptide. Sensors and Actuators B: Chemical, 2005, 108, 603-607.	7.8	19
119	High benzene selectivity of mesoporous silicate for BTX gas sensing microfluidic devices. Analytical and Bioanalytical Chemistry, 2005, 382, 804-809.	3.7	21
120	Effect of the calcination temperature of self-ordered mesoporous silicate on its adsorption characteristics for aromatic hydrocarbons. New Journal of Chemistry, 2005, 29, 504.	2.8	10
121	Discriminative Detection of Volatile Sulfur Compound Mixtures with a Plasma-Polymerized Film-Based Sensor Array Installed in a Humidity-Control System. Analytical Chemistry, 2005, 77, 4228-4234.	6.5	17
122	Electrochemical Enzyme Immunoassay of a Peptide Hormone at Picomolar Levels. Analytical Chemistry, 2005, 77, 4235-4240.	6.5	53
123	Extremely intense Raman signals from single-walled carbon nanotubes suspended between Si nanopillars. Chemical Physics Letters, 2004, 386, 153-157.	2.6	34
124	Fiber-optic conical microsensors for surface plasmon resonance using chemically etched single-mode fiber. Analytica Chimica Acta, 2004, 523, 165-170.	5.4	96
125	Biocompatible glucose sensor prepared by modifying protein and vinylferrocene monomer composite membrane. Biosensors and Bioelectronics, 2004, 20, 518-523.	10.1	27
126	Portable automatic BTX measurement system with microfluidic device using mesoporous silicate adsorbent with nano-sized pores. Sensors and Actuators B: Chemical, 2003, 95, 282-286.	7.8	27

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127	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
128	An Amperometric Detector Formed of Highly Dispersed Ni Nanoparticles Embedded in a Graphite-like Carbon Film Electrode for Sugar Determination. <i>Analytical Chemistry</i> , 2003, 75, 5191-5196.	6.5	195
129	Characterization of Platinum Nanoparticle-Embedded Carbon Film Electrode and Its Detection of Hydrogen Peroxide. <i>Analytical Chemistry</i> , 2003, 75, 2080-2085.	6.5	304
130	A surface plasmon resonance immunosensor for detecting a dioxin precursor using a gold binding polypeptide. <i>Talanta</i> , 2003, 60, 733-745.	5.5	77
131	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
132	Measurements of Enzyme Film Thickness and Enzymatic Reaction by Surface Plasmon Resonance. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2003, 123, 130-131.	0.1	0
133	Near-Field Fiber-Optic Chemical Microsensors. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2003, 123, 132-133.	0.1	0
134	Development of Small Size Detector for Environmental Monitoring of VOC. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2003, 123, 134-135.	0.1	0
135	Electrochemical Oxidation of Alkylphenols on ECR-Sputtered Carbon Film Electrodes with Flat Sub-nanometer Surfaces. <i>Journal of the Electrochemical Society</i> , 2002, 149, E479.	2.9	26
136	Co-Sputtered Thin Film Consisting of Platinum Nanoparticles Embedded in Graphite-Like Carbon and Its High Electrocatalytic Properties for Electroanalysis. <i>Chemistry of Materials</i> , 2002, 14, 4796-4799.	6.7	30
137	Air-Cooled Cold Trap Channel Integrated in a Microfluidic Device for Monitoring Airborne BTEX with an Improved Detection Limit. <i>Analytical Chemistry</i> , 2002, 74, 1712-1717.	6.5	34
138	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
139	Application of an Absorption-Based Surface Plasmon Resonance Principle to the Development of SPR Ammonium Ion and Enzyme Sensors. <i>Analytical Chemistry</i> , 2002, 74, 6106-6110.	6.5	39
140	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
141	Preparation of refractive index matching polymer film alternative to oil for use in a portable surface-plasmon resonance phenomenon-based chemical sensor method. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 222-226.	3.7	18
142	Imaging of electrochemical enzyme sensor on gold electrode using surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2002, 17, 783-788.	10.1	34
143	Characterization and electrochemical properties of highly dispersed copper oxide/hydroxide nanoparticles in graphite-like carbon films prepared by RF sputtering method. <i>Electrochemistry Communications</i> , 2002, 4, 468-471.	4.7	80
144	Microfluidic device integrated with pre-reactor and dual enzyme-modified microelectrodes for monitoring in vivo glucose and lactate. <i>Sensors and Actuators B: Chemical</i> , 2002, 87, 296-303.	7.8	77

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145	Separate Detection of BTX Mixture Gas by a Microfluidic Device Using a Function of Nanosized Pores of Mesoporous Silica Adsorbent. <i>Analytical Chemistry</i> , 2002, 74, 5257-5262.	6.5	40
146	Microfluidic Device for Airborne BTEX Detection. <i>Analytical Chemistry</i> , 2001, 73, 4688-4693.	6.5	72
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