# Osamu Niwa

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 200 papers | 7,241 citations | 53939 47 h-index | 87275 74 g-index |
| 204 all docs | 204 docs citations | 204 times ranked | 6794 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Quantitative Evaluation of DNA Probe Density by Electrochemical Surface Plasmon Resonance Measurement. Sensors and Materials, 2022, 34, 927. | 0.3 | 0 |
| 2 | Response to: Risk Factors Affecting Cage Retropulsion into the Spinal Canal Following Posterior Lumbar Interbody Fusion: Association with Diffuse Idiopathic Skeletal Hyperostosis. Asian Spine Journal, 2022, 16, 309-310. | 0.8 | 0 |
| 3 | Nanocarbon film electrodes for electro-analysis and electrochemical sensors. Current Opinion in Electrochemistry, 2022, 35, 101045. | 2.5 | 6 |
| 4 | Development of a highly sensitive Prussian-blue-based enzymatic biosensor for l-carnitine employing the thiol/disulfide exchange reaction. Analytical Sciences, 2022, 38, 963-968. | 0.8 | 3 |
| 5 | Porous gold nanomesh films electrodeposited in toluene-based dynamic soft template. Electrochimica Acta, 2022, 426, 140761. | 2.6 | 2 |
| 6 | Vertically Oriented Metallic Heterodimer Array Semiembedded in Flat Conductive Carbon Film for Electrochemical Application. ACS Nano, 2022, 16, 10589-10599. | 7.3 | 2 |
| 7 | Electrochemical analysis of ferrocene in bicontinuous microemulsions using Î²- cyclodextrin modified monolayer graphene electrodes. Journal of Electroanalytical Chemistry, 2022, 920, 116575. | 1.9 | 2 |
| 8 | Supporting effects of a N-doped carbon film electrode on an electrodeposited Ni@Ni(OH)<sub>2</sub> coreâ€“shell nanocatalyst in accelerating electrocatalytic oxidation of oligosaccharides. RSC Advances, 2021, 11, 13311-13315. | 1.7 | 5 |
| 9 | Highly Sensitive Electrochemical Detection of Heavy Metal Ions Using Carbon Film-based Electrodes. Bunseki Kagaku, 2021, 70, 101-109. | 0.1 | 1 |
| 10 | The influence mechanism of the molecular structure on the peak current and peak potential in electrochemical detection of typical quinolone antibiotics. Physical Chemistry Chemical Physics, 2021, 23, 13873-13877. | 1.3 | 7 |
| 11 | Hybrid Carbon Film Electrodes for Electroanalysis. Analytical Sciences, 2021, 37, 37-47. | 0.8 | 12 |
| 12 | Structure and Electrochemical Properties of Nitrogen Containing Nanocarbon Films and Their Electroanalytical Application. Bunseki Kagaku, 2021, 70, 511-520. | 0.1 | 0 |
| 13 | Electrochemical enzyme biosensor for carnitine detection based on cathodic stripping voltammetry. Sensors and Actuators B: Chemical, 2020, 321, 128473. | 4.0 | 9 |
| 14 | Monolithic Au Nanoscale Films with Tunable Nanoporosity Prepared via Dynamic Soft Templating for Electrocatalytic Oxidation of Methanol. ACS Applied Nano Materials, 2020, 3, 7750-7760. | 2.4 | 6 |
| 15 | Stand-Alone Semi-Solid-State Electrochemical Systems Based on Bicontinuous Microemulsion Gel Films. Analytical Chemistry, 2020, 92, 14031-14037. | 3.2 | 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. Asian Spine Journal, 2020, 14, 847-856. | 0.8 | 0 |
| 17 | Electrochemical performance at sputter-deposited nanocarbon film with different surface nitrogen-containing groups. Nanoscale, 2019, 11, 10239-10246. | 2.8 | 10 |
| 18 | Increased electrode activity during geosmin oxidation provided by Pt nanoparticle-embedded nanocarbon film. Nanoscale, 2019, 11, 8845-8854. | 2.8 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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. | 0.1 | 6 |
| 20 | Selective Au Electrodeposition on Au Nanoparticles Embedded in Carbon Film Electrode for Se(IV) Detection. Sensors and Materials, 2019, 31, 1135. | 0.3 | 6 |
| 21 | Chromatographic Determination of Sugar Probes Used for Gastrointestinal Permeability Test by Employing Nickelâ€Copper Nanoalloy Embedded in Carbon Film Electrodes. Electroanalysis, 2018, 30, 1407-1415. | 1.5 | 6 |
| 22 | Amplified Zinc Signal at a Nanocarbon Film Electrode for Lipopolysaccharide Detection. ACS Applied Nano Materials, 2018, 1, 5425-5429. | 2.4 | 8 |
| 23 | Nanocarbon Film Electrodes Can Expand the Possibility of Electroanalysis. Bunseki Kagaku, 2018, 67, 635-645. | 0.1 | 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. | 3.2 | 12 |
| 25 | Properties of modified surface for biosensing interface. Journal of Colloid and Interface Science, 2017, 497, 309-316. | 5.0 | 7 |
| 26 | Prefaceâ€"JES Focus Issue on Biosensors and Micro-Nano Fabricated Electromechanical Systems. Journal of the Electrochemical Society, 2017, 164, Y5-Y5. | 1.3 | 3 |
| 27 | Label-Free Detection of Human Glycoprotein (CgA) Using an Extended-Gated Organic Transistor-Based Immunosensor. Sensors, 2016, 16, 2033. | 2.1 | 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. | 0.8 | 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. | 3.2 | 29 |
| 30 | Microfluidic platforms for DNA methylation analysis. Lab on A Chip, 2016, 16, 3631-3644. | 3.1 | 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. | 3.4 | 25 |
| 32 | Co-sputter deposited nickelâ€"copper bimetallic nanoalloy embedded carbon films for electrocatalytic biomarker detection. Nanoscale, 2016, 8, 12887-12891. | 2.8 | 13 |
| 33 | Fluorinated Nanocarbon Film Electrode Capable of Signal Amplification for Lipopolysaccharide Detection. Electrochimica Acta, 2016, 197, 152-158. | 2.6 | 15 |
| 34 | Au Nanoparticle-Embedded Carbon Films for Electrochemical As<sup>3+</sup> Detection with High Sensitivity and Stability. Analytical Chemistry, 2016, 88, 2944-2951. | 3.2 | 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. | 5.3 | 73 |
| 36 | Direct Analysis of Lipophilic Antioxidants of Olive Oils Using Bicontinuous Microemulsions. Analytical Chemistry, 2016, 88, 1202-1209. | 3.2 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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 |
| 38 | Structure and Electroanalytical Application of Nitrogen-doped Carbon Thin Film Electrode with Lower Nitrogen Concentration. Analytical Sciences, 2015, 31, 651-656. | 0.8 | 11 |
| 39 | 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 |
| 40 | Influence of Contact Force on Electrochemical Responses of Redox Species Flowing in Nitrocellulose Membrane at Micropyramid Array Electrode. Analytical Sciences, 2015, 31, 729-732. | 0.8 | 7 |
| 41 | Simultaneous Electrochemical Analysis of Hydrophilic and Lipophilic Antioxidants in Bicontinuous Microemulsion. Analytical Chemistry, 2015, 87, 1489-1493. | 3.2 | 26 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | A Label-Free Immunosensor for IgG Based on an Extended-Gate Type Organic Field Effect Transistor. Materials, 2014, 7, 6843-6852. | 1.3 | 53 |
| 47 | Accurate and reproducible detection of proteins in water using an extended-gate type organic transistor biosensor. Applied Physics Letters, 2014, 104, . | 1.5 | 85 |
| 48 | Polyâ€Îµâ€Lysine Modified Nanocarbon Film Electrodes for LPS Detection. Electroanalysis, 2014, 26, 618-624. | 1.5 | 12 |
| 49 | Thick-matrix-free interface for highly effective protein detection and sufficient signal enhancement. Composite Interfaces, 2014, 21, 631-638. | 1.3 | 0 |
| 50 | Pdâ€“Ni Alloy Nanoparticle/Carbon Nanofiber Composites: Preparation, Structure, and Superior Electrocatalytic Properties for Sugar Analysis. Analytical Chemistry, 2014, 86, 5898-5905. | 3.2 | 72 |
| 51 | Pd<sub>x</sub>Co<sub>y</sub> Nanoparticle/Carbon Nanofiber Composites with Enhanced Electrocatalytic Properties. ACS Catalysis, 2014, 4, 1825-1829. | 5.5 | 78 |
| 52 | Structure and electrochemical characterization of carbon films formed by unbalanced magnetron (UBM) sputtering method. Diamond and Related Materials, 2014, 49, 25-32. | 1.8 | 50 |
| 53 | Cytochrome P450 Modified Polycrystalline Indium Tin Oxide Film as a Drug Metabolizing Electrochemical Biosensor with a Simple Configuration. Analytical Chemistry, 2013, 85, 9996-9999. | 3.2 | 24 |
| 54 | Structure and Electrochemical Performance of Nitrogen-Doped Carbon Film Formed by Electron Cyclotron Resonance Sputtering. Analytical Chemistry, 2013, 85, 9845-9851. | 3.2 | 54 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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. Analyst, The, 2013, 138, 6463. | 1.7 | 23 |
| 56 | Indoor allergen assessment quantified by a thin-layer electrochemical cell and magnetic beads. Biosensors and Bioelectronics, 2013, 48, 43-48. | 5.3 | 3 |
| 57 | Surface Modification of Silicon Oxide with Trialkoxysilanes toward Close-Packed Monolayer Formation. Langmuir, 2013, 29, 6361-6368. | 1.6 | 25 |
| 58 | Design and Fabrication of Biosensing Interface for Waveguide-Mode Sensor. Langmuir, 2013, 29, 13111-13120. | 1.6 | 21 |
| 59 | ‹scp›ONO‹/scp›â€2506 inhibits spikeâ€“wave discharges in a genetic animal model without affecting traditional convulsive tests via gliotransmission regulation. British Journal of Pharmacology, 2013, 168, 1088-1100. | 2.7 | 61 |
| 60 | Carbon-based Electrode Materials for DNA Electroanalysis. Analytical Sciences, 2013, 29, 385-392. | 0.8 | 19 |
| 61 | Improved Direct Electrochemistry for Proteins Adsorbed on a UV/Ozone-Treated Carbon Nanofiber Electrode. Analytical Sciences, 2013, 29, 611-618. | 0.8 | 18 |
| 62 | 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 |
| 63 | DNA Methylation Analysis Triggered by Bulge Specific Immuno-Recognition. Analytical Chemistry, 2012, 84, 7533-7538. | 3.2 | 38 |
| 64 | Evaluation of Electrokinetic Parameters for All DNA Bases with Sputter Deposited Nanocarbon Film Electrode. Analytical Chemistry, 2012, 84, 10607-10613. | 3.2 | 18 |
| 65 | Electrochemical Surface Plasmon Resonance Measurement Based on Gold Nanohole Array Fabricated by Nanoimprinting Technique. Analytical Chemistry, 2012, 84, 3187-3191. | 3.2 | 49 |
| 66 | Design of Biomolecular Interface for Detecting Carbohydrate and Lectin Weak Interactions. Langmuir, 2012, 28, 1846-1851. | 1.6 | 28 |
| 67 | On-Chip Synthesis of RNA Aptamer Microarrays for Multiplexed Protein Biosensing with SPR Imaging Measurements. Langmuir, 2012, 28, 8281-8285. | 1.6 | 45 |
| 68 | Determination of DNA Methylation Using Electrochemiluminescence with Surface Accumulable Coreactant. Analytical Chemistry, 2012, 84, 1799-1803. | 3.2 | 79 |
| 69 | The Structure and Bonding State for Fullerene-Like Carbon Nitride Films with High Hardness Formed by Electron Cyclotron Resonance Plasma Sputtering. Japanese Journal of Applied Physics, 2012, 51, 125602. | 0.8 | 5 |
| 70 | Development of a mass-producible on-chip plasmonic nanohole array biosensor. Nanoscale, 2011, 3, 5067. | 2.8 | 63 |
| 71 | 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 |
| 72 | Electrochemical DNA Methylation Detection for Enzymatically Digested CpG Oligonucleotides. Analytical Chemistry, 2011, 83, 7595-7599. | 3.2 | 89 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | 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 |
| 74 | Electrochemical Determination of Oxidative Damaged DNA with High Sensitivity and Stability Using a Nanocarbon Film. Analytical Sciences, 2011, 27, 703. | 0.8 | 30 |
| 75 | Surface Modification of GC and HOPG with Diazonium, Amine, Azide, and Olefin Derivatives. Langmuir, 2011, 27, 170-178. | 1.6 | 44 |
| 76 | Development of a Sputtered Nanocarbon Film Based Microdisk Array Electrode for the Highly Stable Detection of Serotonin. Electroanalysis, 2011, 23, 827-831. | 1.5 | 8 |
| 77 | Enzymatically amplified electrochemical detection for lipopolysaccharide using ferrocene-attached polymyxin B and its analogue. Biosensors and Bioelectronics, 2011, 26, 2080-2084. | 5.3 | 21 |
| 78 | Synthesis and galectin-binding activities of mercaptododecyl glycosides containing a terminal Î²-galactosyl group. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 1265-1269. | 1.0 | 9 |
| 79 | Suppression of Non-specific Adsorption Using Densified Tri(ethylene glycol) alkanethiols: Monolayer Characteristics Evaluated by Electrochemical Measurements. Analytical Sciences, 2010, 26, 33-37. | 0.8 | 15 |
| 80 | Direct electrochemical detection of DNA methylation for retinoblastoma and CpG fragments using a nanocarbon film. Analytical Biochemistry, 2010, 405, 59-66. | 1.1 | 49 |
| 81 | 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 |
| 82 | One-Step Detection of Galectins on Hybrid Monolayer Surface with Protruding Lactoside. Analytical Chemistry, 2010, 82, 1175-1178. | 3.2 | 22 |
| 83 | Development of Electrogenerated Chemiluminescence-Based Enzyme Linked Immunosorbent Assay for Sub-pM Detection. Analytical Chemistry, 2010, 82, 1692-1697. | 3.2 | 86 |
| 84 | Synthesis of phosphorylcholineâ€“oligoethylene glycolâ€“alkane thiols and their suppressive effect on non-specific adsorption of proteins. Tetrahedron Letters, 2009, 50, 4092-4095. | 0.7 | 27 |
| 85 | Fabrication of electrochemically stable fluorinated nano-carbon film compared with other fluorinated carbon materials. Carbon, 2009, 47, 1943-1952. | 5.4 | 48 |
| 86 | Local Imaging of an Electrochemical Active/Inactive Region on a Conductive Carbon Surface by Using Scanning Electrochemical Microscopy. Analytical Sciences, 2009, 25, 645-651. | 0.8 | 5 |
| 87 | Surface Accumulable Coreactant for Bright Electrogenerated Chemiluminescence at Trace Level Concentrations. Chemistry Letters, 2009, 38, 804-805. | 0.7 | 6 |
| 88 | 12-Mercaptododecyl Î²-maltoside-modified gold nanoparticles: specific ligands for concanavalin A having long flexible hydrocarbon chains. Analytical and Bioanalytical Chemistry, 2008, 391, 2527-2532. | 1.9 | 22 |
| 89 | Nanohybrid Carbon Film for Electrochemical Detection of SNPs without Hybridization or Labeling. Angewandte Chemie - International Edition, 2008, 47, 6681-6684. | 7.2 | 79 |
| 90 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Enzyme immunoassay of insulin at picomolar levels based on the coulometric determination of hydrogen peroxide. Sensors and Actuators B: Chemical, 2008, 135, 304-308. | 4.0 | 20 |
| 92 | Controllable electrode activities of nano-carbon films while maintaining surface flatness by electrochemical pretreatment. Carbon, 2008, 46, 1918-1926. | 5.4 | 58 |
| 93 | A Nanocarbon Film Electrode as a Platform for Exploring DNA Methylation. Journal of the American Chemical Society, 2008, 130, 3716-3717. | 6.6 | 163 |
| 94 | Newly Developed Chemical Probes and Nano-Devices for Cellular Analysis. Analytical Sciences, 2008, 24, 55-66. | 0.8 | 14 |
| 95 | Comparison of Enzymatic Recycling Electrodes for Measuring Aminophenol: Development of a Highly Sensitive Natriuretic Peptide Assay System. Analytical Sciences, 2008, 24, 577-582. | 0.8 | 10 |
| 96 | 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 |
| 97 | Characterization of a microfluidic device fabricated using a photosensitive sheet. Journal of Micromechanics and Microengineering, 2007, 17, 432-438. | 1.5 | 13 |
| 98 | Determination of Hydrogen Peroxide Based on the Charge Accumulation and Electrochemical Reduction at an Osmium Complex/Peroxidase-coated Electrode. Chemistry Letters, 2007, 36, 1148-1149. | 0.7 | 11 |
| 99 | 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 |
| 100 | Structure and Electrochemical Properties of Carbon Films Prepared by a Electron Cyclotron Resonance Sputtering Method. Analytical Chemistry, 2007, 79, 98-105. | 3.2 | 93 |
| 101 | Formation of Supramolecular Nanobelt Arrays Consisting of Cobalt(II) â€œPicket-Fenceâ€•Porphyrin on Au Surfaces. Langmuir, 2007, 23, 809-816. | 1.6 | 32 |
| 102 | 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 |
| 103 | New Advances in Nanomedicine: Diagnosis and Preventive Medicine. Medical Clinics of North America, 2007, 91, 871-879. | 1.1 | 5 |
| 104 | Electrochemically amplified detection for lipopolysaccharide using ferrocenylboronic acid. Biosensors and Bioelectronics, 2007, 22, 1527-1531. | 5.3 | 44 |
| 105 | Hydrogen bonding interaction between aminopurinethiol-monolayers and oligonucleotides by QCM and XPS measurements. Sensors and Actuators B: Chemical, 2007, 121, 214-218. | 4.0 | 12 |
| 106 | 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 |
| 107 | Fabrication and Characterization of a Nanometer-Sized Optical Fiber Electrode Based on Selective Chemical Etching for Scanning Electrochemical/Optical Microscopy. Analytical Chemistry, 2006, 78, 1904-1912. | 3.2 | 52 |
| 108 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Measurement of DNA Amount on Gold Plate Based on the Oxidation Current of Guanine. Bunseki Kagaku, 2006, 55, 975-978. | 0.1 | 1 |
| 110 | 2P276 Specific interactions between the carbohydrate on gold nanoparticles and lectins(40. Membrane) Tj ETQq0 0 0 rgBT /Overlock 10 S364. | 0.0 | 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. | 5.3 | 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. | 0.8 | 6 |
| 113 | Imaging of flow pattern in micro flow channel using surface plasmon resonance. Measurement Science and Technology, 2006, 17, 3184-3188. | 1.4 | 8 |
| 114 | A Simple Method for Fabrication of Mesoporous Films Using a Rapid Heating Process. Chemistry Letters, 2005, 34, 328-329. | 0.7 | 6 |
| 115 | Selective Electrochemical Response of Dopamine against 3,4-Dihydroxyphenylacetic Acid at Bare Indiumâ€“Tin Oxide Electrode. Chemistry Letters, 2005, 34, 1120-1121. | 0.7 | 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. | 2.0 | 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. | 4.0 | 14 |
| 118 | Surface electrochemical enzyme immunoassay for the highly sensitive measurement of B-type natriureric peptide. Sensors and Actuators B: Chemical, 2005, 108, 603-607. | 4.0 | 19 |
| 119 | High benzene selectivity of mesoporous silicate for BTX gas sensing microfluidic devices. Analytical and Bioanalytical Chemistry, 2005, 382, 804-809. | 1.9 | 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. | 1.4 | 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. | 3.2 | 17 |
| 122 | Electrochemical Enzyme Immunoassay of a Peptide Hormone at Picomolar Levels. Analytical Chemistry, 2005, 77, 4235-4240. | 3.2 | 53 |
| 123 | Extremely intense Raman signals from single-walled carbon nanotubes suspended between Si nanopillars. Chemical Physics Letters, 2004, 386, 153-157. | 1.2 | 34 |
| 124 | Fiber-optic conical microsensors for surface plasmon resonance using chemically etched single-mode fiber. Analytica Chimica Acta, 2004, 523, 165-170. | 2.6 | 96 |
| 125 | Biocompatible glucose sensor prepared by modifying protein and vinylferrocene monomer composite membrane. Biosensors and Bioelectronics, 2004, 20, 518-523. | 5.3 | 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. | 4.0 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | 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 |
| 128 | An Amperometric Detector Formed of Highly Dispersed Ni Nanoparticles Embedded in a Graphite-like Carbon Film Electrode for Sugar Determination. Analytical Chemistry, 2003, 75, 5191-5196. | 3.2 | 195 |
| 129 | Characterization of Platinum Nanoparticle-Embedded Carbon Film Electrode and Its Detection of Hydrogen Peroxide. Analytical Chemistry, 2003, 75, 2080-2085. | 3.2 | 304 |
| 130 | A surface plasmon resonance immunosensor for detecting a dioxin precursor using a gold binding polypeptide. Talanta, 2003, 60, 733-745. | 2.9 | 77 |
| 131 | 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 |
| 132 | Measurements of Enzyme Film Thickness and Enzymatic Reaction by Surface Plasmon Resonance. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 130-131. | 0.0 | 0 |
| 133 | Near-Field Fiber-Optic Chemical Microsensors. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 132-133. | 0.0 | 0 |
| 134 | Development of Small Size Detector for Environmental Monitoring of VOC. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 134-135. | 0.0 | 0 |
| 135 | Electrochemical Oxidation of Alkylphenols on ECR-Sputtered Carbon Film Electrodes with Flat Sub-nanometer Surfaces. Journal of the Electrochemical Society, 2002, 149, E479. | 1.3 | 26 |
| 136 | Co-Sputtered Thin Film Consisting of Platinum Nanoparticles Embedded in Graphite-Like Carbon and Its High Electrocatalytic Properties for Electroanalysis. Chemistry of Materials, 2002, 14, 4796-4799. | 3.2 | 30 |
| 137 | Air-Cooled Cold Trap Channel Integrated in a Microfluidic Device for Monitoring Airborne BTEX with an Improved Detection Limit. Analytical Chemistry, 2002, 74, 1712-1717. | 3.2 | 34 |
| 138 | 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 |
| 139 | Application of an Absorption-Based Surface Plasmon Resonance Principle to the Development of SPR Ammonium Ion and Enzyme Sensors. Analytical Chemistry, 2002, 74, 6106-6110. | 3.2 | 39 |
| 140 | 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 |
| 141 | Preparation of refractive index matching polymer film alternative to oil for use in a portable surface-plasmon resonance phenomenon-based chemical sensor method. Analytical and Bioanalytical Chemistry, 2002, 373, 222-226. | 1.9 | 18 |
| 142 | Imaging of electrochemical enzyme sensor on gold electrode using surface plasmon resonance. Biosensors and Bioelectronics, 2002, 17, 783-788. | 5.3 | 34 |
| 143 | Characterization and electrochemical properties of highly dispersed copper oxide/hydroxide nanoparticles in graphite-like carbon films prepared by RF sputtering method. Electrochemistry Communications, 2002, 4, 468-471. | 2.3 | 80 |
| 144 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Separate Detection of BTX Mixture Gas by a Microfluidic Device Using a Function of Nanosized Pores of Mesoporous Silica Adsorbent. Analytical Chemistry, 2002, 74, 5257-5262. | 3.2 | 40 |
| 146 | Microfluidic Device for Airborne BTEX Detection. Analytical Chemistry, 2001, 73, 4688-4693. | 3.2 | 72 |
| 147 | Detection of Electrochemical Enzymatic Reactions by Surface Plasmon Resonance Measurement. Analytical Chemistry, 2001, 73, 1595-1598. | 3.2 | 119 |
| 148 | Near-Infrared Raman Spectra of Azo Dye Produced by a Nitrogen-Dioxide-Gas-Selective Coloration Reaction in a Porous Glass Chip. Applied Spectroscopy, 2001, 55, 1151-1154. | 1.2 | 4 |
| 149 | Real-time multisite observation of glutamate release in rat hippocampal slices. Neuroscience Letters, 2001, 304, 112-116. | 1.0 | 36 |
| 150 | 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 |
| 151 | Visible internal-reflection spectroscopy by polymer channel optical waveguide.. IEEJ Transactions on Fundamentals and Materials, 2001, 121, 654-659. | 0.2 | 0 |
| 152 | Electrochemical Surface Plasmon Resonance Measurement. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2000, 51, 558-562. | 0.1 | 0 |
| 153 | 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 |
| 154 | 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 |
| 155 | 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 |
| 156 | Real-time electrochemical imaging using an individually addressable multi-channel electrode. Biosensors and Bioelectronics, 2000, 15, 523-529. | 5.3 | 30 |
| 157 | Subnanoliter Volume Wall-Jet Cells Combined with Interdigitated Microarray Electrode and Enzyme Modified Planar Microelectrode. Analytical Chemistry, 2000, 72, 949-955. | 3.2 | 46 |
| 158 | Carbon Film-Based Interdigitated Array Microelectrode Used in Capillary Electrophoresis with Electrochemical Detection. Analytical Chemistry, 2000, 72, 1315-1321. | 3.2 | 47 |
| 159 | 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 |
| 160 | Nickel content dependence of electrochemical behavior of carbohydrates on a titaniumâ€“nickel alloy electrode and its application to a liquid chromatography detector. Journal of Chromatography A, 1999, 837, 17-24. | 1.8 | 30 |
| 161 | Evidence for laser action driven by electrochemiluminescence. Nature, 1998, 394, 659-661. | 13.7 | 41 |
| 162 | Analysis of electrochemical processes using surface plasmon resonance. Sensors and Actuators B: Chemical, 1998, 50, 145-148. | 4.0 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Small-Volume On-Line Sensor for Continuous Measurement of Î³-Aminobutyric Acid. Analytical Chemistry, 1998, 70, 89-93. | 3.2 | 64 |
| 164 | On-Line Electrochemical Sensor for Selective Continuous Measurement of Acetylcholine in Cultured Brain Tissue. Analytical Chemistry, 1998, 70, 1126-1132. | 3.2 | 62 |
| 165 | Direct detection of uncaged glutamate and the laser photostimulation of cultured rat cortex. NeuroReport, 1998, 9, 599-603. | 0.6 | 5 |
| 166 | Microfabricated On-Line Sensor for Continuous Monitoring of L-Glutamate.. Analytical Sciences, 1998, 14, 947-953. | 0.8 | 28 |
| 167 | Real-time detection of GABA-induced synaptic glutamate release in cultured rat cortex. NeuroReport, 1997, 8, 1353-1357. | 0.6 | 19 |
| 168 | Continuous monitoring of L-glutamate released from cultured nerve cells by an online sensor coupled with micro-capillary sampling. Biosensors and Bioelectronics, 1997, 12, 311-319. | 5.3 | 51 |
| 169 | On-line flow sensor for measuring acetylcholine combined with microdialysis sampling probe. Electroanalysis, 1997, 9, 912-916. | 1.5 | 18 |
| 170 | Time differential surface plasmon resonance measurements applied for electrochemical analysis. Electroanalysis, 1997, 9, 1239-1241. | 1.5 | 45 |
| 171 | Interdigitated array microelectrodes as electrochemical sensors. Electrochimica Acta, 1997, 42, 3177-3183. | 2.6 | 99 |
| 172 | Carbon Film-Based Interdigitated Ring Array Electrodes as Detectors in Radial Flow Cells. Analytical Chemistry, 1996, 68, 355-359. | 3.2 | 42 |
| 173 | Concentration of Extracellularl-Glutamate Released from Cultured Nerve Cells Measured with a Small-Volume Online Sensor. Analytical Chemistry, 1996, 68, 1865-1870. | 3.2 | 88 |
| 174 | Selective Electrochemical Detection Using a Split Disk Array Electrode in a Thin-Layer Radial Flow System. Analytical Chemistry, 1996, 68, 3797-3800. | 3.2 | 15 |
| 175 | Determination of acetylcholine and choline with platinum-black ultramicroarray electrodes using liquid chromatography with a post-column enzyme reactor. Analytica Chimica Acta, 1996, 318, 167-173. | 2.6 | 46 |
| 176 | Electroanalysis with interdigitated array microelectrodes. Electroanalysis, 1995, 7, 606-613. | 1.5 | 81 |
| 177 | Improved detection limit for catecholamines using liquid chromatography-electrochemistry with a carbon interdigitated array microelectrode. Biomedical Applications, 1995, 670, 21-28. | 1.7 | 48 |
| 178 | Fabrication and Photoelectrochemical Properties of Interdigitated Array Microelectrodes Consisting of Optically Transparent and Nontransparent Band Electrodes. Journal of the Electrochemical Society, 1995, 142, L146-L149. | 1.3 | 12 |
| 179 | Highly selective electrochemical detection of dopamine using interdigitated array electrodes modified with nafion/polyester lonomer layered film. Electroanalysis, 1994, 6, 237-243. | 1.5 | 52 |
| 180 | Detection of Reversible Redox Species by Substitutional Stripping Voltammetry. Analytical Chemistry, 1994, 66, 1224-1230. | 3.2 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Voltammetric measurements of reversible and quasi-reversible redox species using carbon film based interdigitated array microelectrodes. Analytical Chemistry, 1994, 66, 285-289. | 3.2 | 100 |
| 182 | Subfemtomole Detection of Catecholamine with Interdigitated Array Carbon Microelectrodes in HPLC. Analytical Chemistry, 1994, 66, 3500-3502. | 3.2 | 56 |
| 183 | Highly sensitive small volume voltammetry of reversible redox species with an IDA electrochemical cell and its application to selective detection of catecholamine. Sensors and Actuators B: Chemical, 1993, 14, 558-560. | 4.0 | 14 |
| 184 | Highly sensitive detection of catecholamine with interdigitated array microelectrodes in HPLC. Sensors and Actuators B: Chemical, 1993, 13, 336-339. | 4.0 | 10 |
| 185 | Small-volume voltammetric detection of 4-aminophenol with interdigitated array electrodes and its application to electrochemical enzyme immunoassay. Analytical Chemistry, 1993, 65, 1559-1563. | 3.2 | 293 |
| 186 | Stripping voltammetry of reversible redox species by self-induced redox cycling. Analytical Chemistry, 1992, 64, 3206-3208. | 3.2 | 31 |
| 187 | Highly sensitive and selective voltammetric detection of dopamine with vertically separated interdigitated array electrodes. Electroanalysis, 1991, 3, 163-168. | 1.5 | 69 |
| 188 | Limiting Current Enhancement by Selfâ€Induced Redox Cycling on a Microâ€Macro Twin Electrode. Journal of the Electrochemical Society, 1991, 138, 3549-3553. | 1.3 | 28 |
| 189 | Electrochemical behavior of reversible redox species at interdigitated array electrodes with different geometries: consideration of redox cycling and collection efficiency. Analytical Chemistry, 1990, 62, 447-452. | 3.2 | 263 |
| 190 | Electrochemical oxidation of vacuum-deposited carbazole: Preparation and film properties. Synthetic Metals, 1990, 35, 253-261. | 2.1 | 12 |
| 191 | Mechanical Properties of Flexible Polypyrrole-Based Conducting Polymer Alloy Films. Polymer Journal, 1987, 19, 1293-1301. | 1.3 | 33 |
| 192 | Semi-transparent anisotropically conducting polymer alloy film prepared on patterned electrode.. Kobunshi Ronbunshu, 1987, 44, 225-233. | 0.2 | 1 |
| 193 | Anisotropic conductivity of polypyrrole-polyvinylchloride conducting polymer alloy film prepared on patterned electrode. Synthetic Metals, 1987, 18, 677-682. | 2.1 | 73 |
| 194 | Polypyrrole-based conducting polymer alloy films: physical properties and film morphology. Macromolecules, 1987, 20, 749-753. | 2.2 | 44 |
| 195 | Polythiophene/polyvinylchloride conducting polymer alloy films and their redox properties. Synthetic Metals, 1987, 20, 235-243. | 2.1 | 15 |
| 196 | Electrical properties of poly(vinyl chloride)-polypyrrole conductive polymer alloy films. Die Makromolekulare Chemie Rapid Communications, 1985, 6, 375-379. | 1.1 | 25 |
| 197 | Patterning of Conductive Polypyrrole in Polymer Film. Japanese Journal of Applied Physics, 1985, 24, L79-L81. | 0.8 | 21 |
| 198 | Polymerâ€polypyrrole alloy films as semitransparent organic conductors. Applied Physics Letters, 1985, 46, 444-446. | 1.5 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Photoresponsive Permeation Characteristics of a Ternary Composite Membrane of Polymer/Artificial Lipid/Azobenzene Derivative. Polymer Journal, 1984, 16, 461-470. | 1.3 | 23 |
| 200 | PHOTOINDUCED ION PERMEATION THROUGH TERNARY COMPOSITE MEMBRANE COMPOSED OF POLYMER/LIQUID CRYSTAL/AZOBENZENE-BRIDGED CROWN ETHER. Chemistry Letters, 1983, 12, 1327-1330. | 0.7 | 33 |