Yuzuru Takamura

List of Publications by Year
in descending order

204	7,160	53660 45	64668 79
papers	citations	h-index	g-index

205	205	205	7412
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Automated Paper-Based Femtogram Sensing Device for Competitive Enzyme-Linked Immunosorbent Assay of Aflatoxin B₁ Using Submicroliter Samples. Analytical Chemistry, 2022, 94, 5099-5105.	3.2	16
2	Fabrication and Characterizations of Axial View Liquid Electrode Plasma Atomic Emission Spectrometry for the Sensitive Determination of Trace Zinc, Cadmium, and Lead. Analytical Chemistry, 2022, 94, 8209-8216.	3.2	7
3	Determination of alkali and alkaline earth elements in radioactive waste generated from reprocessing plant by liquid electrode plasma optical emission spectrometry. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 433-444.	0.7	0
4	DOCK11 and DENND2A play pivotal roles in the maintenance of hepatitis B virus in host cells. PLoS ONE, 2021, 16, e0246313.	1.1	8
5	Performance Enhancement of Inkjet Printed Multiâ€Walled Carbon Nanotubes Inks using Synthetic and Green Surfactants. Advanced Materials Technologies, 2021, 6, 2001026.	3.0	12
6	Development of robust isothermal RNA amplification assay for lab-free testing of RNA viruses. Scientific Reports, 2021, 11, 15997.	1.6	5
7	Alternative Analyte-Binding Compounds for Immunosensor-Like Point-of-Care Application. , 2021, , 111-124.		0
8	Speciation of inorganic selenium in wastewater using liquid electrode plasma-optical emission spectrometry combined with supramolecule-equipped solid-phase extraction system. Microchemical Journal, 2020, 159, 105490.	2.3	7
9	Developing Conductive Highly Ordered Zinc Oxide Nanorods by Acetylacetonate-Assisted Growth. Materials, 2020, 13, 1136.	1.3	10
10	High-transconductance indium oxide transistors with a lanthanum-zirconium gate oxide characteristic of an electrolyte. Journal of Applied Physics, 2020, 127, .	1.1	5
11	Black tea polyphenol theaflavin as promising antioxidant and potential copper chelator. Journal of the Science of Food and Agriculture, 2020, 100, 3126-3135.	1.7	19
12	A facile solution-combustion-synthetic approach enabling low-temperature PZT thin-films. APL Materials, 2020, 8, .	2.2	6
13	Organic Ion-associate Phase Extraction/Back-microextraction for the Preconcentration and Determination of Lithium Using 2,2,6,6-Tetramethyl-3,5-heptanedione by Liquid Electrode Plasma Atomic Emission Spectrometry and GF-AAS in Environmental Water. Analytical Sciences, 2020, 36, 595-600.	0.8	5
14	Wet Adhesion of Micro-patterned Interfaces for Stable Grasping of Deformable Objects. , 2020, , .		7
15	Study on effect of introduced gas bubbles for the low channel damage in direct and alternating current liquid electrode plasma atomic emission spectrometry. Japanese Journal of Applied Physics, 2019, 58, 097001.	0.8	2
16	Palm-size and one-inch gel electrophoretic device for reliable and field-applicable analysis of recombinase polymerase amplification. Analytical Methods, 2019, 11, 4969-4976.	1.3	10
17	Development of highly sensitive electrochemical immunosensor based on single-walled carbon nanotube modified screen-printed carbon electrode. Materials Chemistry and Physics, 2019, 227, 123-129.	2.0	32
18	Direct integration of piezoactuator array with active-matrix oxide thin-film transistors using a low-temperature solution process. Sensors and Actuators A: Physical, 2019, 295, 125-132.	2.0	0

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19	Competitive non-SELEX for the selective and rapid enrichment of DNA aptamers and its use in electrochemical aptasensor. Scientific Reports, 2019, 9, 6642.	1.6	24
20	A Simple and Efficient Microfluidic System for Reverse Chemical Synthesis (5â€²-3â€²) of a Short-Chain Oligonucleotide Without Inert Atmosphere. Applied Sciences (Switzerland), 2019, 9, 1357.	1.3	5
21	Spectrochemistry of technetium by liquid electrode plasma optical emission spectrometry and its applicability of quantification for highly active liquid waste. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 155, 134-140.	1.5	4
22	Polyphenols Modulate Alzheimerâ€™s Amyloid Beta Aggregation in a Structure-Dependent Manner. Nutrients, 2019, 11, 756.	1.7	61
23	Gold Nanoparticleâ€labeled Electrochemical Immunoassay Using Open Circuit Potential for Human Chorionic Gonadotropin Detection. Electroanalysis, 2018, 30, 1774-1780.	1.5	5
24	Determination of lateral and vertical dielectrophoresis forces using tapered microelectrode array. Micro and Nano Letters, 2018, 13, 143-148.	0.6	11
25	Instant enumeration of total viable bacterial counts for food quality assurance using â€˜DEP-On-Goâ€™ sensor. Analytical Methods, 2018, 10, 1585-1592.	1.3	4
26	Quantitative determination of total cesium in highly active liquid waste by using liquid electrode plasma optical emission spectrometry. Talanta, 2018, 183, 283-289.	2.9	10
27	Effect of ultraviolet/ozone treatment on the structural and electrical properties of solution-processed piezoelectric thick-film lead-zirconium-titanate. International Journal of Nanotechnology, 2018, 15, 69.	0.1	0
28	Enzyme-Free Glucose Sensor Based on Micro-nano Dualporous Gold-Modified Screen-Printed Carbon Electrode. International Journal of Electrochemical Science, 2018, 13, 8633-8644.	0.5	16
29	Lead Zirconium Titanate Films and Devices Made by a Low- Temperature Solution-Based Process. , 2018, , .		0
30	Host Cell Prediction of Exosomes Using Morphological Features on Solid Surfaces Analyzed by Machine Learning. Journal of Physical Chemistry B, 2018, 122, 6224-6235.	1.2	16
31	Thermoelectric Properties and Carrier Localization in Ultrathin Layer of Nbâ€Ðoped MoS₂. Physica Status Solidi (B): Basic Research, 2018, 255, 1800125.	0.7	3
32	Electrochemical Immunoassay Using Open Circuit Potential Detection Labeled by Platinum Nanoparticles. Sensors, 2018, 18, 444.	2.1	18
33	â€˜Head-to-Headâ€™ mRNA display for the translation of multi-copied proteins with a free C-terminus. Analytical Biochemistry, 2018, 557, 77-83.	1.1	1
34	Lift-off process for fine-patterned PZT film using metal oxide as a sacrificial layer. Journal of Micromechanics and Microengineering, 2017, 27, 014004.	1.5	3
35	Concentration and extraction chip of fetal nucleated red blood Cells (NRBCs) by micro gap with diaphragm for fetal DNA diagnosis from maternal blood. Microsystem Technologies, 2017, 23, 5351-5355.	1.2	2
36	Density-gradient-assisted centrifugal microfluidics: an approach to continuous-mode particle separation. Biomedical Microdevices, 2017, 19, 24.	1.4	7

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37	Comprehensive single-cell transcriptome analysis reveals heterogeneity in endometrioid adenocarcinoma tissues. Scientific Reports, 2017, 7, 14225.	1.6	23
38	Solution-based process with thermal UV treatment for fabrication of piezoelectric PZT films for an actuator array at temperatures under 450 Â°C. Sensors and Actuators A: Physical, 2017, 267, 287-292.	2.0	6
39	High yield matrix-free ionization of biomolecules by pulse-heating ion source. Scientific Reports, 2017, 7, 15170.	1.6	3
40	Peptide aptamer-modified single-walled carbon nanotube-based transistors for high-performance biosensors. Scientific Reports, 2017, 7, 17881.	1.6	42
41	DEP-On-Go for Simultaneous Sensing of Multiple Heavy Metals Pollutants in Environmental Samples. Sensors, 2017, 17, 45.	2.1	22
42	Tapered microelectrode array system for dielectrophoretically filtration: fabrication, characterization, and simulation study. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2017, 16, 1.	1.0	14
43	A bulk sub-femtoliter in vitro compartmentalization system using super-fine electrosprays. Scientific Reports, 2016, 6, 26257.	1.6	14
44	Direct digital manufacturing of autonomous centrifugal microfluidic device. Japanese Journal of Applied Physics, 2016, 55, 06GN02.	0.8	7
45	Impact of New Quick Gold Nanoparticle-Based Cortisol Assay During Adrenal Vein Sampling for Primary Aldosteronism. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 2554-2561.	1.8	63
46	Design of dual working electrodes for concentration process in metalloimmunoassay. Biomedical Microdevices, 2016, 18, 86.	1.4	0
47	Fine-patterning of sol-gel derived PZT film by a novel lift-off process using solution-processed metal oxide as a sacrificial layer. Ceramics International, 2016, 42, 18431-18435.	2.3	4
48	Implementing the concept of dielectrophoresis in glomerular filtration of human kidneys. , 2016, , .		9
49	Combustion synthesized indium-tin-oxide (ITO) thin film for source/drain electrodes in all solution-processed oxide thin-film transistors. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	20
50	Direct digital manufacturing of a mini-centrifuge-driven centrifugal microfluidic device and demonstration of a smartphone-based colorimetric enzyme-linked immunosorbent assay. Analytical Methods, 2016, 8, 256-262.	1.3	15
51	Development of AC-driven liquid electrode plasma for sensitive detection of metals. Japanese Journal of Applied Physics, 2016, 55, 02BC23.	0.8	7
52	PEP-on-DEP: A competitive peptide-based disposable electrochemical aptasensor for renin diagnostics. Biosensors and Bioelectronics, 2016, 84, 120-125.	5.3	18
53	pH dependence of non-specific adsorption and detection solution in electrochemical metalloimmunoassay using antibodyâ€“silver nanoparticle conjugates. Sensing and Bio-Sensing Research, 2015, 5, 78-83.	2.2	3
54	Highly Sensitive Detection using Dual Working Electrode and Concentration Process in Electrochemical Metalloimmunoassay. Electrochimica Acta, 2015, 174, 799-805.	2.6	5

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55	Water-clock-based autonomous flow sequencing in steadily rotating centrifugal microfluidic device. Sensors and Actuators B: Chemical, 2015, 220, 180-183.	4.0	16
56	Atomic emission spectrometry in liquid electrode plasma using an hourglass microchannel. Journal of Analytical Atomic Spectrometry, 2015, 30, 2125-2128.	1.6	21
57	Modified screen printed electrode for development of a highly sensitive label-free impedimetric immunosensor to detect amyloid beta peptides. Analytica Chimica Acta, 2015, 892, 69-76.	2.6	69
58	Precise flow control with internal pneumatic micropump for highly sensitive solid-phase extraction liquid electrode plasma. Sensors and Actuators B: Chemical, 2015, 221, 1561-1569.	4.0	11
59	A new stroboscopic technique for the observation of microscale fluorescent objects on a spinning platform in centrifugal microfluidics. Microfluidics and Nanofluidics, 2015, 18, 245-252.	1.0	16
60	Proposal of Minicentrifuge-Compatible Centrifugal Microfluidic Device. Sensors and Materials, 2015, , .	0.3	1
61	Electrochemical Biological Sensors Based on Directly Synthesized Carbon Nanotube Electrodes. , 2015, , 179-186.		0
62	Solution processing of microcavity for BioMEMS application. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2014, 5, 035003.	0.7	0
63	On-chip solid phase extractionâ€“liquid electrode plasma atomic emission spectrometry for detection of trace lead. Japanese Journal of Applied Physics, 2014, 53, 05FS01.	0.8	12
64	Development of programmable biosensor using solid phase peptide synthesis on microchip. Japanese Journal of Applied Physics, 2014, 53, 05FA09.	0.8	3
65	Development of oligopeptide-based novel biosensor by solid-phase peptide synthesis on microchip. Sensors and Actuators B: Chemical, 2014, 192, 818-825.	4.0	8
66	Development of the automated gold-linked electrochemical immunoassay system for blood monitoring. Microsystem Technologies, 2014, 20, 273-279.	1.2	3
67	Pulse-Heating Ionization for Protein On-Chip Mass Spectrometry. Analytical Chemistry, 2014, 86, 7593-7597.	3.2	9
68	Gold-linked electrochemical immunoassay on single-walled carbon nanotube for highly sensitive detection of human chorionic gonadotropinhormone. Biosensors and Bioelectronics, 2013, 42, 592-597.	5.3	45
69	Control of secondary flow in concentrically traveling flow on centrifugal microfluidics. Microfluidics and Nanofluidics, 2013, 15, 829-837.	1.0	11
70	Development of high sensitive liquid electrode plasma â€“ Atomic emission spectrometry (LEP-AES) integrated with solid phase pre-concentration. Microelectronic Engineering, 2013, 111, 343-347.	1.1	21
71	A single cell gene detection using micro-tweezers and the microchamber polymerase chain reaction for the fetal DNA analysis. Sensors and Actuators B: Chemical, 2013, 178, 678-682.	4.0	4
72	Development of automated paper-based devices for sequential multistep sandwich enzyme-linked immunosorbent assays using inkjet printing. Lab on A Chip, 2013, 13, 126-135.	3.1	204

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73	Effect of Microfluidic Channel on Sensitivity and Response in Gold-linked Electrochemical Immunoassay. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 344-349.	0.0	2
74	Propitious Immobilization of Gold Nanoparticles on Poly(dimethylsiloxane) Substrate for Local Surface Plasmon Resonance Based Biosensor. Japanese Journal of Applied Physics, 2012, 51, 037001.	0.8	4
75	4ï¼Žãƒžã‚¿ãƒ¯ãƒæµè·¯ã,'ç"¨ã„ãŸç°¡æ˜“åˆ†æžç"Ÿä½"å^†åã®å^¶å¾¡ã•æœå‡º. Electrochemistry, 2012, 80, 440-444.	0.6	0
76	Sensing Technique of Silver Nanoparticles as Labels for Immunoassay Using Liquid Electrode Plasma Atomic Emission Spectrometry. Analytical Chemistry, 2012, 84, 1210-1213.	3.2	51
77	Fabrication of new single-walled carbon nanotubes microelectrode for electrochemical sensors application. Talanta, 2012, 91, 88-94.	2.9	17
78	Characteristics of liquid electrode plasma for atomic emission spectrometry. Journal of Analytical Atomic Spectrometry, 2012, 27, 1457.	1.6	30
79	Detection of expressed gene in isolated single cells in microchambers by a novel hot cell-direct RT-PCR method. Analyst, The, 2012, 137, 2951.	1.7	24
80	Development of on-chip vacuum generation by gasâ€"liquid phase transition. Sensors and Actuators A: Physical, 2012, 176, 138-142.	2.0	7
81	Propitious Immobilization of Gold Nanoparticles on Poly(dimethylsiloxane) Substrate for Local Surface Plasmon Resonance Based Biosensor. Japanese Journal of Applied Physics, 2012, 51, 037001.	0.8	3
82	Highly Sensitive Elemental Analysis for Cd and Pb by Liquid Electrode Plasma Atomic Emission Spectrometry with Quartz Glass Chip and Sample Flow. Analytical Chemistry, 2011, 83, 9424-9430.	3.2	70
83	Labelless impedance immunosensor based on polypyrroleâ€"pyrolecarboxylic acid copolymer for hCG detection. Talanta, 2011, 85, 2576-2580.	2.9	51
84	Preparation of Glycopolymer-Modified Gold Nanoparticles and a New Approach for a Lateral Flow Assay. Bulletin of the Chemical Society of Japan, 2011, 84, 466-470.	2.0	24
85	Liquid Electrode Plasma Atomic Emission Spectrometry Combined with Multi-Element Concentration Using Liquid Organic Ion Associate Extraction for Simultaneous Determination of Trace Metals in Water. Bunseki Kagaku, 2011, 60, 515-520.	0.1	18
86	Micro- and Nano-fabrication of Stimulus-responsive Polymer using Nanoimprint Lithography. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 63-70.	0.1	28
87	Electrochemical assay for saccharideâ€"protein interactions using glycopolymer-modified gold nanoparticles. Electrochemistry Communications, 2011, 13, 830-833.	2.3	21
88	Demonstration of Three-Dimensional DNA Trapping Using Electric Force and Hydrodrag Force. Japanese Journal of Applied Physics, 2011, 50, 06GL13.	0.8	1
89	Excitation Temperature Measurement in Liquid Electrode Plasma. Japanese Journal of Applied Physics, 2011, 50, 096001.	0.8	9
90	Excitation Temperature Measurement in Liquid Electrode Plasma. Japanese Journal of Applied Physics, 2011, 50, 096001.	0.8	8

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91	Demonstration of Three-Dimensional DNA Trapping Using Electric Force and Hydrodrag Force. Japanese Journal of Applied Physics, 2011, 50, 06GL13.	0.8	0
92	Highly Sensitive Method for Electrochemical Detection of Silver Nanoparticle Labels in Metalloimmunoassay with Preoxidation/Reduction Signal Enhancement. Electrochemistry, 2010, 78, 748-753.	0.6	12
93	Determination of Cadmium in Water Samples by Liquid Electrode Plasma Atomic Emission Spectrometry after Solid Phase Extraction Using a Mini Cartridge Packed with Chelate Resin Immobilizing Carboxymethylated Pentaethylenehexamine. Analytical Sciences, 2010, 26, 515-518.	0.8	34
94	An optimal design method for preventing air bubbles in high-temperature microfluidic devices. Analytical and Bioanalytical Chemistry, 2010, 396, 457-464.	1.9	43
95	Compact disk (CD)-shaped device for single cell isolation and PCR of a specific gene in the isolated cell. Analytical and Bioanalytical Chemistry, 2010, 398, 2997-3004.	1.9	25
96	Multi-chamber PCR chip with simple liquid introduction utilizing the gas permeability of polydimethylsiloxane. Sensors and Actuators B: Chemical, 2010, 149, 284-290.	4.0	27
97	Fabrication and Characterization of Planar Screen-Printed Ag/AgCl Reference Electrode for Disposable Sensor Strip. Japanese Journal of Applied Physics, 2010, 49, 097003.	0.8	17
98	Trapping probability analysis of a DNA trap using electric and hydrodrag force fields in tapered microchannels. Physical Review E, 2009, 79, 051902.	0.8	3
99	Development of a High-Sensitive Immunosensor Based on Monitoring Redox Signal of Gold Nanoparticle. ECS Transactions, 2009, 16, 37-48.	0.3	1
100	Microfluidic and Label-Free Multi-Immunosensors Based on Carbon Nanotube Microelectrodes. Japanese Journal of Applied Physics, 2009, 48, 06FJ02.	0.8	17
101	Flow-based biochip for insecticides detection. Journal of Bioscience and Bioengineering, 2009, 108, S153.	1.1	1
102	Aptamerâ€Based Labelâ€Free Immunosensors Using Carbon Nanotube Fieldâ€Effect Transistors. Electroanalysis, 2009, 21, 1285-1290.	1.5	120
103	Determination of trace amounts of sodium and lithium in zirconium dioxide (ZrO2) using liquid electrode plasma optical emission spectrometry. Analytica Chimica Acta, 2009, 634, 153-157.	2.6	39
104	Cell separation by an aqueous two-phase system in a microfluidic device. Analyst, The, 2009, 134, 1994.	1.7	73
105	Electrochemical genosensor for the rapid detection of GMO using loop-mediated isothermal amplification. Analyst, The, 2009, 134, 966.	1.7	71
106	Quantitative Determination of Lead in Soil by Solid-Phase Extraction/Liquid Electrode Plasma Atomic Emission Spectrometry. Bunseki Kagaku, 2009, 58, 561-567.	0.1	16
107	Development of a compact stacked flatbed reactor with immobilized high-density bacteria for hydrogen production. International Journal of Hydrogen Energy, 2008, 33, 1593-1597.	3.8	22
108	Label-free optical detection of aptamerâ€“protein interactions using gold-capped oxide nanostructures. Analytical Biochemistry, 2008, 379, 1-7.	1.1	61

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109	AFM picking-up manipulation of the metaphase chromosome fragment by using the tweezers-type probe. Ultramicroscopy, 2008, 108, 847-854.	0.8	11
110	Nanomaterial-based electrochemical biosensors for medical applications. TrAC - Trends in Analytical Chemistry, 2008, 27, 585-592.	5.8	200
111	Label-Free Detection of Melittin Binding to a Membrane Using Electrochemical-Localized Surface Plasmon Resonance. Analytical Chemistry, 2008, 80, 1859-1864.	3.2	59
112	A Microfluidic Chip Based on Localized Surface Plasmon Resonance for Real-Time Monitoring of Antigenâ€“Antibody Reactions. Japanese Journal of Applied Physics, 2008, 47, 1337.	0.8	44
113	Label-Free Optical Detection of Protein Antibodyâ€“Antigen Interaction on Au Capped Porous Anodic Alumina Layer Chip. Japanese Journal of Applied Physics, 2008, 47, 1351-1354.	0.8	14
114	Carbon Nanotube Amperometric Chips with Pneumatic Micropumps. Japanese Journal of Applied Physics, 2008, 47, 2064-2067.	0.8	25
115	Polymer Size Effect on Shape and Position in DNA Trap by Electric and Hydrodynamic Force Fields. Japanese Journal of Applied Physics, 2007, 46, 5358.	0.8	3
116	An electrochemical localized surface plasmon resonance biochip based on core-shell structure nanoparticles substrate for sensing of pore forming toxins. , 2007, , .		0
117	Quantum dot-based immunosensor for the detection of prostate-specific antigen using fluorescence microscopy. Talanta, 2007, 71, 1494-1499.	2.9	104
118	Rapid and sensitive visual detection of residual pesticides in food using acetylcholinesterase-based disposable membrane chips. Food Control, 2007, 18, 914-920.	2.8	37
119	Trap probability analysis of DNA trap using electric and hydrodrag force fields in taper shaped microchannel. , 2007, , .		0
120	Influences of electroosmotic flows in nanopillar chips on DNA separation: Experimental results and numerical simulations. Israel Journal of Chemistry, 2007, 47, 161-169.	1.0	19
121	A localized surface plasmon resonance based immunosensor for the detection of casein in milk. Science and Technology of Advanced Materials, 2007, 8, 331-338.	2.8	137
122	Accumulation of amplified target DNAs using thiol/biotin labeling, S1 nuclease, and ferroceneâ€“streptavidinâ€“magnetic system and a direct detection of specific DNA signals with screen printed gold electrode. Science and Technology of Advanced Materials, 2007, 8, 323-330.	2.8	8
123	Single-walled carbon nanotube-arrayed microelectrode chip for electrochemical analysis. Electrochemistry Communications, 2007, 9, 13-18.	2.3	72
124	An electrochemical on-field sensor system for the detection of compost maturity. Analytica Chimica Acta, 2007, 581, 364-369.	2.6	24
125	Label-free immunosensor for prostate-specific antigen based on single-walled carbon nanotube array-modified microelectrodes. Biosensors and Bioelectronics, 2007, 22, 2377-2381.	5.3	297
126	Label-Free Protein Biosensor Based on Aptamer-Modified Carbon Nanotube Field-Effect Transistors. Analytical Chemistry, 2007, 79, 782-787.	3.2	644

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127	Label-Free Electrochemical Immunoassay for the Detection of Human Chorionic Gonadotropin Hormone. Analytical Chemistry, 2006, 78, 5612-5616.	3.2	87
128	Label-Free Amperometric Biosensors Based on Single-Walled Carbon Nanotube Modified Microelectrodes. , 2006, , .		4
129	Electrochemical Genosensor Based on Peptide Nucleic Acid-Mediated PCR and Asymmetric PCR Techniques:Â Electrostatic Interactions with a Metal Cation. Analytical Chemistry, 2006, 78, 2182-2189.	3.2	72
130	Constraining the connectivity of neuronal networks cultured on microelectrode arrays with microfluidic techniques: A step towards neuron-based functional chips. Biosensors and Bioelectronics, 2006, 21, 1093-1100.	5.3	126
131	Direct fabrication of catalytic metal nanoparticles onto the surface of a screen-printed carbon electrode. Electrochemistry Communications, 2006, 8, 1375-1380.	2.3	109
132	Development of a compact high-density microbial hydrogen reactor for portable bio-fuel cell system. International Journal of Hydrogen Energy, 2006, 31, 1484-1489.	3.8	47
133	A new design of knife-edged AFM probe for chromosome precision manipulating. Sensors and Actuators A: Physical, 2006, 130-131, 616-624.	2.0	9
134	Novel electrochemical identification and semi quantification of bovine constituents in feedstuffs. Science and Technology of Advanced Materials, 2006, 7, 263-269.	2.8	14
135	A novel enhancement assay for immunochromatographic test strips using gold nanoparticles. Analytical and Bioanalytical Chemistry, 2006, 385, 1414-1420.	1.9	134
136	Circumventing air bubbles in microfluidic systems and quantitative continuous-flow PCR applications. Analytical and Bioanalytical Chemistry, 2006, 386, 1327-1333.	1.9	88
137	Gold nanoparticle based immunochromatography using a resin modified micropipette tip for rapid and simple detection of human chorionic gonadotropin hormone and prostate-specific antigen. Science and Technology of Advanced Materials, 2006, 7, 276-281.	2.8	32
138	Gold nanoparticle-based novel enhancement method for the development of highly sensitive immunochromatographic test strips. Science and Technology of Advanced Materials, 2006, 7, 270-275.	2.8	74
139	A sensitive immunochromatographic assay using gold nanoparticles for the semiquantitative detection of prostate-specific antigen in serum. Nanobiotechnology, 2006, 2, 79-86.	1.2	11
140	Resin-based micropipette tip for immunochromatographic assays in urine samples. Journal of Immunological Methods, 2006, 312, 54-60.	0.6	21
141	Detection of DNA Hybridization Properties Using Thermodynamic Method. Japanese Journal of Applied Physics, 2006, 45, 509-512.	0.8	3
142	Localized surface plasmon resonance based optical biosensor using surface modified nanoparticle layer for label-free monitoring of antigenâ€“antibody reaction. Science and Technology of Advanced Materials, 2005, 6, 491-500.	2.8	118
143	Fluorescence-based assay with enzyme amplification on a micro-flow immunosensor chip for monitoring coplanar polychlorinated biphenyls. Analytica Chimica Acta, 2005, 531, 7-13.	2.6	54
144	Peptide Nucleic Acidâ€“Modified Carbon Nanotube Field-Effect Transistor for Ultra-Sensitive Real-Time Detection of DNA Hybridization. Nanobiotechnology, 2005, 1, 065-070.	1.2	28

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145	Nanoscale Time-Lapse AFM Imaging in Solution for DNA Aggregation. Nanobiotechnology, 2005, 1, 361-368.	1.2	9
146	Label-Free Detection of Peptide Nucleic Acidâ˜'DNA Hybridization Using Localized Surface Plasmon Resonance Based Optical Biosensor. Analytical Chemistry, 2005, 77, 6976-6984.	3.2	311
147	Investigating neuronal activity with planar microelectrode arrays: achievements and new perspectives. Journal of Bioscience and Bioengineering, 2005, 100, 131-143.	1.1	132
148	Escherichia coli single-strand binding protein?DNA interactions on carbon nanotube-modified electrodes from a label-free electrochemical hybridization sensor. Analytical and Bioanalytical Chemistry, 2005, 381, 1114-1121.	1.9	84
149	A Rapid Label-Free Electrochemical Detection and Kinetic Study of Alzheimer's Amyloid Beta Aggregation. Journal of the American Chemical Society, 2005, 127, 11892-11893.	6.6	197
150	Title is missing!. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2004, 55, 385-390.	0.1	0
151	Curvature Entropy Trapping of Long DNA under Hydrodynamic Flows in Microfluidic Devices. Japanese Journal of Applied Physics, 2004, 43, 1649-1650.	0.8	8
152	Concentration and Injection of Long Deoxyribonucleic Acid Molecules at the Interface of Micro- and Nano-channels. Japanese Journal of Applied Physics, 2004, 43, 4417-4418.	0.8	1
153	Electrophoresis of long deoxyribonucleic acid in curved channels: The effect of channel width on migration dynamics. Journal of Applied Physics, 2004, 96, 2937-2944.	1.1	8
154	DNA Condensation Monitoring after Interaction with Hoechst 33258 by Atomic Force Microscopy and Fluorescence Spectroscopy. Journal of Biochemistry, 2004, 136, 813-823.	0.9	38
155	Ultrasensitive Detection of DNA Hybridization Using Carbon Nanotube Field-Effect Transistors. Japanese Journal of Applied Physics, 2004, 43, L1558-L1560.	0.8	72
156	On-chip micro-flow polystyrene bead-based immunoassay for quantitative detection of tacrolimus (FK506). Analytical Biochemistry, 2004, 334, 111-116.	1.1	69
157	DNA-Directed Attachment of Carbon Nanotubes for Enhanced Label-Free Electrochemical Detection of DNA Hybridization. Electroanalysis, 2004, 16, 1667-1672.	1.5	59
158	Peptide nucleic acid modified magnetic beads for intercalator based electrochemical detection of DNA hybridization. Science and Technology of Advanced Materials, 2004, 5, 351-357.	2.8	47
159	Modification of Escherichia coli single-stranded DNA binding protein with gold nanoparticles for electrochemical detection of DNA hybridization. Analytica Chimica Acta, 2004, 510, 169-174.	2.6	90
160	Separation of Long DNA Molecules by Quartz Nanopillar Chips under a Direct Current Electric Field. Analytical Chemistry, 2004, 76, 15-22.	3.2	333
161	Electrochemical Coding of Single-Nucleotide Polymorphisms By Monobase-Modified Gold Nanoparticles. Analytical Chemistry, 2004, 76, 1877-1884.	3.2	101
162	On-Chip Nanoliter-Volume Multiplex TaqMan Polymerase Chain Reaction from A Single Copy Based on Counting Fluorescence Released Microchambers. Analytical Chemistry, 2004, 76, 6434-6439.	3.2	67

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163	Low-voltage electroosmosis pump for stand-alone microfluidics devices. Electrophoresis, 2003, 24, 185-192.	1.3	147
164	Label-free electrochemical detection of DNA hybridization on gold electrode. Electrochemistry Communications, 2003, 5, 887-891.	2.3	73
165	Fluorescence modulation of long DNA molecules adsorbed onto a microelectrode surface. Applied Physics Letters, 2003, 83, 5086-5088.	1.5	2
166	Biochips aiming at advanced medical treatment. , 2003, , 335-371.		1
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