

Yuzuru Takamura

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188
papers

6,074
citations

41
h-index

73
g-index

205
ext. papers

6,610
ext. citations

4.1
avg. IF

5.46
L-index

#	Paper	IF	Citations
188	Alternative Analyte-Binding Compounds for Immunosensor-Like Point-of-Care Application 2021 , 111-124		
187	Performance Enhancement of Inkjet Printed Multi-Walled Carbon Nanotubes Inks using Synthetic and Green Surfactants. <i>Advanced Materials Technologies</i> , 2021 , 6, 2001026	6.8	2
186	Determination of alkali and alkaline earth elements in radioactive waste generated from reprocessing plant by liquid electrode plasma optical emission spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021 , 327, 433-444	1.5	
185	DOCK11 and DENND2A play pivotal roles in the maintenance of hepatitis B virus in host cells. <i>PLoS ONE</i> , 2021 , 16, e0246313	3.7	1
184	Development of robust isothermal RNA amplification assay for lab-free testing of RNA viruses. <i>Scientific Reports</i> , 2021 , 11, 15997	4.9	0
183	Speciation of inorganic selenium in wastewater using liquid electrode plasma-optical emission spectrometry combined with supramolecule-equipped solid-phase extraction system. <i>Microchemical Journal</i> , 2020 , 159, 105490	4.8	3
182	Developing Conductive Highly Ordered Zinc Oxide Nanorods by Acetylacetonate-Assisted Growth. <i>Materials</i> , 2020 , 13,	3.5	6
181	High-transconductance indium oxide transistors with a lanthanum-zirconium gate oxide characteristic of an electrolyte. <i>Journal of Applied Physics</i> , 2020 , 127, 064504	2.5	1
180	Black tea polyphenol theaflavin as promising antioxidant and potential copper chelator. <i>Journal of the Science of Food and Agriculture</i> , 2020 , 100, 3126-3135	4.3	9
179	A facile solution-combustion-synthetic approach enabling low-temperature PZT thin-films. <i>APL Materials</i> , 2020 , 8, 021112	5.7	4
178	Wet Adhesion of Micro-patterned Interfaces for Stable Grasping of Deformable Objects 2020 ,		2
177	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. <i>Analytical Sciences</i> , 2020 , 36, 595-600	1.7	3
176	Study on effect of introduced gas bubbles for the low channel damage in direct and alternating current liquid electrode plasma atomic emission spectrometry. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 097001	1.4	1
175	Palm-size and one-inch gel electrophoretic device for reliable and field-applicable analysis of recombinase polymerase amplification. <i>Analytical Methods</i> , 2019 , 11, 4969-4976	3.2	5
174	Development of highly sensitive electrochemical immunosensor based on single-walled carbon nanotube modified screen-printed carbon electrode. <i>Materials Chemistry and Physics</i> , 2019 , 227, 123-129	4.4	20
173	Direct integration of piezoactuator array with active-matrix oxide thin-film transistors using a low-temperature solution process. <i>Sensors and Actuators A: Physical</i> , 2019 , 295, 125-132	3.9	
172	Competitive non-SELEX for the selective and rapid enrichment of DNA aptamers and its use in electrochemical aptasensor. <i>Scientific Reports</i> , 2019 , 9, 6642	4.9	12

171	A Simple and Efficient Microfluidic System for Reverse Chemical Synthesis (5?-3?) of a Short-Chain Oligonucleotide Without Inert Atmosphere. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1357	2.6	3
170	Spectrochemistry of technetium by liquid electrode plasma optical emission spectrometry and its applicability of quantification for highly active liquid waste. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019 , 155, 134-140	3.1	4
169	Polyphenols Modulate Alzheimer's Amyloid Beta Aggregation in a Structure-Dependent Manner. <i>Nutrients</i> , 2019 , 11,	6.7	32
168	Gold Nanoparticle-labeled Electrochemical Immunoassay Using Open Circuit Potential for Human Chorionic Gonadotropin Detection. <i>Electroanalysis</i> , 2018 , 30, 1774-1780	3	4
167	Determination of lateral and vertical dielectrophoresis forces using tapered microelectrode array. <i>Micro and Nano Letters</i> , 2018 , 13, 143-148	0.9	6
166	Instant enumeration of total viable bacterial counts for food quality assurance using DEP-On-Go sensor. <i>Analytical Methods</i> , 2018 , 10, 1585-1592	3.2	2
165	Quantitative determination of total cesium in highly active liquid waste by using liquid electrode plasma optical emission spectrometry. <i>Talanta</i> , 2018 , 183, 283-289	6.2	9
164	Effect of ultraviolet/ozone treatment on the structural and electrical properties of solution-processed piezoelectric thick-film lead-zirconium-titanate. <i>International Journal of Nanotechnology</i> , 2018 , 15, 69	1.5	
163	Thermoelectric Properties and Carrier Localization in Ultrathin Layer of Nb-Doped MoS ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800125	1.3	1
162	Electrochemical Immunoassay Using Open Circuit Potential Detection Labeled by Platinum Nanoparticles. <i>Sensors</i> , 2018 , 18,	3.8	13
161	'Head-to-Head' mRNA display for the translation of multi-copied proteins with a free C-terminus. <i>Analytical Biochemistry</i> , 2018 , 557, 77-83	3.1	1
160	Enzyme-Free Glucose Sensor Based on Micro-nano Dualporous Gold-Modified Screen-Printed Carbon Electrode. <i>International Journal of Electrochemical Science</i> , 2018 , 8633-8644	2.2	7
159	Host Cell Prediction of Exosomes Using Morphological Features on Solid Surfaces Analyzed by Machine Learning. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6224-6235	3.4	9
158	Lift-off process for fine-patterned PZT film using metal oxide as a sacrificial layer. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 014004	2	3
157	Concentration and extraction chip of fetal nucleated red blood Cells (NRBCs) by micro gap with diaphragm for fetal DNA diagnosis from maternal blood. <i>Microsystem Technologies</i> , 2017 , 23, 5351-5355	1.7	1
156	Density-gradient-assisted centrifugal microfluidics: an approach to continuous-mode particle separation. <i>Biomedical Microdevices</i> , 2017 , 19, 24	3.7	5
155	Comprehensive single-cell transcriptome analysis reveals heterogeneity in endometrioid adenocarcinoma tissues. <i>Scientific Reports</i> , 2017 , 7, 14225	4.9	16
154	Solution-based process with thermal UV treatment for fabrication of piezoelectric PZT films for an actuator array at temperatures under 450 °C. <i>Sensors and Actuators A: Physical</i> , 2017 , 267, 287-292	3.9	5

153	High yield matrix-free ionization of biomolecules by pulse-heating ion source. <i>Scientific Reports</i> , 2017 , 7, 15170	4.9	2
152	Peptide aptamer-modified single-walled carbon nanotube-based transistors for high-performance biosensors. <i>Scientific Reports</i> , 2017 , 7, 17881	4.9	28
151	Tapered microelectrode array system for dielectrophoretically filtration: fabrication, characterization, and simulation study. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2017 , 16, 1	0.7	7
150	Combustion synthesized indium-tin-oxide (ITO) thin film for source/drain electrodes in all solution-processed oxide thin-film transistors. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	15
149	Direct digital manufacturing of a mini-centrifuge-driven centrifugal microfluidic device and demonstration of a smartphone-based colorimetric enzyme-linked immunosorbent assay. <i>Analytical Methods</i> , 2016 , 8, 256-262	3.2	12
148	Development of AC-driven liquid electrode plasma for sensitive detection of metals. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 02BC23	1.4	6
147	PEP-on-DEP: A competitive peptide-based disposable electrochemical aptasensor for renin diagnostics. <i>Biosensors and Bioelectronics</i> , 2016 , 84, 120-5	11.8	13
146	DEP-On-Go for Simultaneous Sensing of Multiple Heavy Metals Pollutants in Environmental Samples. <i>Sensors</i> , 2016 , 17,	3.8	16
145	A bulk sub-femtoliter in vitro compartmentalization system using super-fine electrosprays. <i>Scientific Reports</i> , 2016 , 6, 26257	4.9	13
144	Direct digital manufacturing of autonomous centrifugal microfluidic device. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 06GN02	1.4	7
143	Impact of New Quick Gold Nanoparticle-Based Cortisol Assay During Adrenal Vein Sampling for Primary Aldosteronism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 2554-61	5.6	36
142	Design of dual working electrodes for concentration process in metalloimmunoassay. <i>Biomedical Microdevices</i> , 2016 , 18, 86	3.7	
141	Fine-patterning of sol-gel derived PZT film by a novel lift-off process using solution-processed metal oxide as a sacrificial layer. <i>Ceramics International</i> , 2016 , 42, 18431-18435	5.1	3
140	Implementing the concept of dielectrophoresis in glomerular filtration of human kidneys 2016 ,		3
139	Water-clock-based autonomous flow sequencing in steadily rotating centrifugal microfluidic device. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 180-183	8.5	11
138	Atomic emission spectrometry in liquid electrode plasma using an hourglass microchannel. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 2125-2128	3.7	18
137	Modified screen printed electrode for development of a highly sensitive label-free impedimetric immunosensor to detect amyloid beta peptides. <i>Analytica Chimica Acta</i> , 2015 , 892, 69-76	6.6	53
136	Precise flow control with internal pneumatic micropump for highly sensitive solid-phase extraction liquid electrode plasma. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1561-1569	8.5	9

135	A new stroboscopic technique for the observation of microscale fluorescent objects on a spinning platform in centrifugal microfluidics. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 245-252	2.8	12
134	pH dependence of non-specific adsorption and detection solution in electrochemical metalloimmunoassay using antibody-silver nanoparticle conjugates. <i>Sensing and Bio-Sensing Research</i> , 2015 , 5, 78-83	3.3	2
133	Highly Sensitive Detection using Dual Working Electrode and Concentration Process in Electrochemical Metalloimmunoassay. <i>Electrochimica Acta</i> , 2015 , 174, 799-805	6.7	4
132	Electrochemical Biological Sensors Based on Directly Synthesized Carbon Nanotube Electrodes 2015 , 179-186		
131	Pulse-heating ionization for protein on-chip mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 7593-7	7.8	7
130	Solution processing of microcavity for BioMEMS application. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2014 , 5, 035003	1.6	
129	On-chip solid phase extraction-liquid electrode plasma atomic emission spectrometry for detection of trace lead. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FS01	1.4	11
128	Development of programmable biosensor using solid phase peptide synthesis on microchip. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FA09	1.4	1
127	Development of oligopeptide-based novel biosensor by solid-phase peptide synthesis on microchip. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 818-825	8.5	8
126	Development of the automated gold-linked electrochemical immunoassay system for blood monitoring. <i>Microsystem Technologies</i> , 2014 , 20, 273-279	1.7	3
125	Gold-linked electrochemical immunoassay on single-walled carbon nanotube for highly sensitive detection of human chorionic gonadotropin hormone. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 592-7	11.8	39
124	Control of secondary flow in concentrically traveling flow on centrifugal microfluidics. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 829-837	2.8	9
123	Development of high sensitive liquid electrode plasma Atomic emission spectrometry (LEP-AES) integrated with solid phase pre-concentration. <i>Microelectronic Engineering</i> , 2013 , 111, 343-347	2.5	17
122	A single cell gene detection using micro-tweezers and the microchamber polymerase chain reaction for the fetal DNA analysis. <i>Sensors and Actuators B: Chemical</i> , 2013 , 178, 678-682	8.5	3
121	Development of automated paper-based devices for sequential multistep sandwich enzyme-linked immunosorbent assays using inkjet printing. <i>Lab on A Chip</i> , 2013 , 13, 126-35	7.2	176
120	Effect of Microfluidic Channel on Sensitivity and Response in Gold-linked Electrochemical Immunoassay. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2013 , 133, 344-349	0.2	1
119	Development of on-chip vacuum generation by gas-liquid phase transition. <i>Sensors and Actuators A: Physical</i> , 2012 , 176, 138-142	3.9	6
118	Sensing technique of silver nanoparticles as labels for immunoassay using liquid electrode plasma atomic emission spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 1210-3	7.8	48

117	Fabrication of new single-walled carbon nanotubes microelectrode for electrochemical sensors application. <i>Talanta</i> , 2012 , 91, 88-94	6.2	14
116	Characteristics of liquid electrode plasma for atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 1457	3.7	27
115	Detection of expressed gene in isolated single cells in microchambers by a novel hot cell-direct RT-PCR method. <i>Analyst, The</i> , 2012 , 137, 2951-7	5	13
114	Propitious Immobilization of Gold Nanoparticles on Poly(dimethylsiloxane) Substrate for Local Surface Plasmon Resonance Based Biosensor. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 037001	1.4	3
113	4.?????????????????????. <i>Electrochemistry</i> , 2012 , 80, 440-444	1.2	
112	Propitious Immobilization of Gold Nanoparticles on Poly(dimethylsiloxane) Substrate for Local Surface Plasmon Resonance Based Biosensor. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 037001	1.4	2
111	Labelless impedance immunosensor based on polypyrrole-pyrolecarboxylic acid copolymer for hCG detection. <i>Talanta</i> , 2011 , 85, 2576-80	6.2	44
110	Preparation of Glycopolymer-Modified Gold Nanoparticles and a New Approach for a Lateral Flow Assay. <i>Bulletin of the Chemical Society of Japan</i> , 2011 , 84, 466-470	5.1	22
109	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. <i>Bunseki Kagaku</i> , 2011 , 60, 515-520	0.2	16
108	Micro- and Nano-fabrication of Stimulus-responsive Polymer using Nanoimprint Lithography. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2011 , 24, 63-70	0.7	12
107	Electrochemical assay for saccharide-protein interactions using glycopolymer-modified gold nanoparticles. <i>Electrochemistry Communications</i> , 2011 , 13, 830-833	5.1	19
106	Highly sensitive elemental analysis for Cd and Pb by liquid electrode plasma atomic emission spectrometry with quartz glass chip and sample flow. <i>Analytical Chemistry</i> , 2011 , 83, 9424-30	7.8	60
105	Demonstration of Three-Dimensional DNA Trapping Using Electric Force and Hydrodrag Force. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 06GL13	1.4	1
104	Excitation Temperature Measurement in Liquid Electrode Plasma. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 096001	1.4	9
103	Excitation Temperature Measurement in Liquid Electrode Plasma. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 096001	1.4	7
102	Demonstration of Three-Dimensional DNA Trapping Using Electric Force and Hydrodrag Force. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 06GL13	1.4	
101	Fabrication and Characterization of Planar Screen-Printed Ag/AgCl Reference Electrode for Disposable Sensor Strip. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 097003	1.4	15
100	Highly Sensitive Method for Electrochemical Detection of Silver Nanoparticle Labels in Metalloimmunoassay with Preoxidation/Reduction Signal Enhancement. <i>Electrochemistry</i> , 2010 , 78, 748-753	1.2	9

99	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. <i>Analytical Sciences</i> , 2010 , 26, 515-8	1.7	29
98	An optimal design method for preventing air bubbles in high-temperature microfluidic devices. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 457-64	4.4	32
97	Compact disk (CD)-shaped device for single cell isolation and PCR of a specific gene in the isolated cell. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2997-3004	4.4	24
96	Multi-chamber PCR chip with simple liquid introduction utilizing the gas permeability of polydimethylsiloxane. <i>Sensors and Actuators B: Chemical</i> , 2010 , 149, 284-290	8.5	24
95	Trapping probability analysis of a DNA trap using electric and hydrodrag force fields in tapered microchannels. <i>Physical Review E</i> , 2009 , 79, 051902	2.4	3
94	Microfluidic and Label-Free Multi-ImmunoSensors Based on Carbon Nanotube Microelectrodes. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 06FJ02	1.4	14
93	Aptamer-Based Label-Free ImmunoSensors Using Carbon Nanotube Field-Effect Transistors. <i>Electroanalysis</i> , 2009 , 21, 1285-1290	3	106
92	Determination of trace amounts of sodium and lithium in zirconium dioxide (ZrO ₂) using liquid electrode plasma optical emission spectrometry. <i>Analytica Chimica Acta</i> , 2009 , 634, 153-7	6.6	38
91	Cell separation by an aqueous two-phase system in a microfluidic device. <i>Analyst, The</i> , 2009 , 134, 1994-85		63
90	Electrochemical genosensor for the rapid detection of GMO using loop-mediated isothermal amplification. <i>Analyst, The</i> , 2009 , 134, 966-72	5	60
89	Quantitative Determination of Lead in Soil by Solid-Phase Extraction/Liquid Electrode Plasma Atomic Emission Spectrometry. <i>Bunseki Kagaku</i> , 2009 , 58, 561-567	0.2	16
88	Label-free detection of melittin binding to a membrane using electrochemical-localized surface plasmon resonance. <i>Analytical Chemistry</i> , 2008 , 80, 1859-64	7.8	53
87	A Microfluidic Chip Based on Localized Surface Plasmon Resonance for Real-Time Monitoring of Antigen/Antibody Reactions. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1337-1341	1.4	39
86	Label-Free Optical Detection of Protein Antibody/Antigen Interaction on Au Capped Porous Anodic Alumina Layer Chip. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1351-1354	1.4	14
85	Development of a compact stacked flatbed reactor with immobilized high-density bacteria for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1593-1597	6.7	18
84	Label-free optical detection of aptamer-protein interactions using gold-capped oxide nanostructures. <i>Analytical Biochemistry</i> , 2008 , 379, 1-7	3.1	53
83	AFM picking-up manipulation of the metaphase chromosome fragment by using the tweezers-type probe. <i>Ultramicroscopy</i> , 2008 , 108, 847-54	3.1	10
82	Nanomaterial-based electrochemical biosensors for medical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 585-592	14.6	172

81	Carbon Nanotube Amperometric Chips with Pneumatic Micropumps. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 2064-2067	1.4	24
80	Influences of electroosmotic flows in nanopillar chips on DNA separation: Experimental results and numerical simulations. <i>Israel Journal of Chemistry</i> , 2007 , 47, 161-169	3.4	18
79	A localized surface plasmon resonance based immunosensor for the detection of casein in milk. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 331-338	7.1	112
78	Accumulation of amplified target DNAs using thiol/biotin labeling, S1 nuclease, and ferrocene-streptavidin-magnetic system and a direct detection of specific DNA signals with screen printed gold electrode. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 323-330	7.1	8
77	Single-walled carbon nanotube-arrayed microelectrode chip for electrochemical analysis. <i>Electrochemistry Communications</i> , 2007 , 9, 13-18	5.1	68
76	An electrochemical on-field sensor system for the detection of compost maturity. <i>Analytica Chimica Acta</i> , 2007 , 581, 364-9	6.6	22
75	Label-free immunosensor for prostate-specific antigen based on single-walled carbon nanotube array-modified microelectrodes. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2377-81	11.8	261
74	Label-free protein biosensor based on aptamer-modified carbon nanotube field-effect transistors. <i>Analytical Chemistry</i> , 2007 , 79, 782-7	7.8	558
73	Polymer Size Effect on Shape and Position in DNA Trap by Electric and Hydrodynamic Force Fields. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 5358-5362	1.4	3
72	Quantum dot-based immunosensor for the detection of prostate-specific antigen using fluorescence microscopy. <i>Talanta</i> , 2007 , 71, 1494-9	6.2	90
71	Rapid and sensitive visual detection of residual pesticides in food using acetylcholinesterase-based disposable membrane chips. <i>Food Control</i> , 2007 , 18, 914-920	6.2	32
70	A novel enhancement assay for immunochromatographic test strips using gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 1414-20	4.4	122
69	Circumventing air bubbles in microfluidic systems and quantitative continuous-flow PCR applications. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 1327-33	4.4	80
68	Gold nanoparticle based immunochromatography using a resin modified micropipette tip for rapid and simple detection of human chorionic gonadotropin hormone and prostate-specific antigen. <i>Science and Technology of Advanced Materials</i> , 2006 , 7, 276-281	7.1	28
67	Gold nanoparticle-based novel enhancement method for the development of highly sensitive immunochromatographic test strips. <i>Science and Technology of Advanced Materials</i> , 2006 , 7, 270-275	7.1	64
66	A sensitive immunochromatographic assay using gold nanoparticles for the semiquantitative detection of prostate-specific antigen in serum. <i>Nanobiotechnology</i> , 2006 , 2, 79-86		10
65	Resin-based micropipette tip for immunochromatographic assays in urine samples. <i>Journal of Immunological Methods</i> , 2006 , 312, 54-60	2.5	19
64	Detection of DNA Hybridization Properties Using Thermodynamic Method. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 509-512	1.4	2

63	Label-free electrochemical immunoassay for the detection of human chorionic gonadotropin hormone. <i>Analytical Chemistry</i> , 2006 , 78, 5612-6	7.8	81
62	Label-Free Amperometric Biosensors Based on Single-Walled Carbon Nanotube Modified Microelectrodes 2006 ,		4
61	Electrochemical genosensor based on peptide nucleic acid-mediated PCR and asymmetric PCR techniques: Electrostatic interactions with a metal cation. <i>Analytical Chemistry</i> , 2006 , 78, 2182-9	7.8	68
60	Constraining the connectivity of neuronal networks cultured on microelectrode arrays with microfluidic techniques: a step towards neuron-based functional chips. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1093-100	11.8	106
59	Direct fabrication of catalytic metal nanoparticles onto the surface of a screen-printed carbon electrode. <i>Electrochemistry Communications</i> , 2006 , 8, 1375-1380	5.1	102
58	Development of a compact high-density microbial hydrogen reactor for portable bio-fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 1484-1489	6.7	43
57	A new design of knife-edged AFM probe for chromosome precision manipulating. <i>Sensors and Actuators A: Physical</i> , 2006 , 130-131, 616-624	3.9	8
56	Novel electrochemical identification and semi quantification of bovine constituents in feedstuffs. <i>Science and Technology of Advanced Materials</i> , 2006 , 7, 263-269	7.1	12
55	A rapid label-free electrochemical detection and kinetic study of Alzheimer's amyloid beta aggregation. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11892-3	16.4	169
54	Localized surface plasmon resonance based optical biosensor using surface modified nanoparticle layer for label-free monitoring of antigen-antibody reaction. <i>Science and Technology of Advanced Materials</i> , 2005 , 6, 491-500	7.1	102
53	Fluorescence-based assay with enzyme amplification on a micro-flow immunosensor chip for monitoring coplanar polychlorinated biphenyls. <i>Analytica Chimica Acta</i> , 2005 , 531, 7-13	6.6	44
52	Peptide nucleic acid-modified carbon nanotube field-effect transistor for ultra-sensitive real-time detection of DNA hybridization. <i>Nanobiotechnology</i> , 2005 , 1, 065-070		23
51	Nanoscale time-lapse AFM imaging in solution for DNA aggregation. <i>Nanobiotechnology</i> , 2005 , 1, 361-368		9
50	Label-free detection of peptide nucleic acid-DNA hybridization using localized surface plasmon resonance based optical biosensor. <i>Analytical Chemistry</i> , 2005 , 77, 6976-84	7.8	274
49	Investigating neuronal activity with planar microelectrode arrays: achievements and new perspectives. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 100, 131-43	3.3	114
48	Escherichia coli single-strand binding protein-DNA interactions on carbon nanotube-modified electrodes from a label-free electrochemical hybridization sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 1114-21	4.4	76
47	???????????????????? -?????????????-. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2004 , 55, 385-390	0.1	
46	Curvature Entropy Trapping of Long DNA under Hydrodynamic Flows in Microfluidic Devices. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 1649-1650	1.4	6

45	Electrophoresis of long deoxyribonucleic acid in curved channels: The effect of channel width on migration dynamics. <i>Journal of Applied Physics</i> , 2004 , 96, 2937-2944	2.5	8
44	DNA condensation monitoring after interaction with hoechst 33258 by atomic force microscopy and fluorescence spectroscopy. <i>Journal of Biochemistry</i> , 2004 , 136, 813-23	3.1	33
43	Ultrasensitive Detection of DNA Hybridization Using Carbon Nanotube Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, L1558-L1560	1.4	65
42	On-chip micro-flow polystyrene bead-based immunoassay for quantitative detection of tacrolimus (FK506). <i>Analytical Biochemistry</i> , 2004 , 334, 111-6	3.1	64
41	DNA-Directed Attachment of Carbon Nanotubes for Enhanced Label-Free Electrochemical Detection of DNA Hybridization. <i>Electroanalysis</i> , 2004 , 16, 1667-1672	3	51
40	Peptide nucleic acid modified magnetic beads for intercalator based electrochemical detection of DNA hybridization. <i>Science and Technology of Advanced Materials</i> , 2004 , 5, 351-357	7.1	41
39	Modification of Escherichia coli single-stranded DNA binding protein with gold nanoparticles for electrochemical detection of DNA hybridization. <i>Analytica Chimica Acta</i> , 2004 , 510, 169-174	6.6	83
38	Separation of long DNA molecules by quartz nanopillar chips under a direct current electric field. <i>Analytical Chemistry</i> , 2004 , 76, 15-22	7.8	291
37	Electrochemical coding of single-nucleotide polymorphisms by monobase-modified gold nanoparticles. <i>Analytical Chemistry</i> , 2004 , 76, 1877-84	7.8	99
36	On-chip nanoliter-volume multiplex TaqMan polymerase chain reaction from a single copy based on counting fluorescence released microchambers. <i>Analytical Chemistry</i> , 2004 , 76, 6434-9	7.8	56
35	Biochips aiming at advanced medical treatment 2003 , 335-371		1
34	Biochip Which Examines Hepatic Function by Employing Colorimetric Method. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L342-L345	1.4	5
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