

Eiichi Tamiya

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410
papers

13,032
citations

62
h-index

96
g-index

444
ext. papers

14,001
ext. citations

5.1
avg. IF

6.09
L-index

#	Paper	IF	Citations
410	Label-free protein biosensor based on aptamer-modified carbon nanotube field-effect transistors. <i>Analytical Chemistry</i> , 2007 , 79, 782-7	7.8	558
409	Computation of equivalent circuit parameters of quartz crystals in contact with liquids and study of liquid properties. <i>Analytical Chemistry</i> , 1988 , 60, 2142-2146	7.8	377
408	Multiple label-free detection of antigen-antibody reaction using localized surface plasmon resonance-based core-shell structured nanoparticle layer nanochip. <i>Analytical Chemistry</i> , 2006 , 78, 6465-6475	7.8	309
407	Piezoelectric crystal biosensor modified with protein A for determination of immunoglobulins. <i>Analytical Chemistry</i> , 1987 , 59, 2760-3	7.8	280
406	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
405	Recent trends in electrochemical DNA biosensor technology. <i>Measurement Science and Technology</i> , 2004 , 15, R1-R11	2	268
404	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
403	Molecular recognition in continuous polymer rods prepared by a molecular imprinting technique. <i>Analytical Chemistry</i> , 1993 , 65, 2223-2224	7.8	223
402	Single-cell microarray for analyzing cellular response. <i>Analytical Chemistry</i> , 2005 , 77, 8050-6	7.8	213
401	Nanomaterial-based electrochemical biosensors for medical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 585-592	14.6	172
400	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
399	Development of a novel hand-held formaldehyde gas sensor for the rapid detection of sick building syndrome. <i>Sensors and Actuators B: Chemical</i> , 2005 , 105, 495-501	8.5	161
398	Development of a microchamber array for picoliter PCR. <i>Analytical Chemistry</i> , 2001 , 73, 1043-7	7.8	139
397	Keratin degradation: a cooperative action of two enzymes from <i>Stenotrophomonas</i> sp. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 294, 1138-43	3.4	136
396	Label-free DNA biosensor based on localized surface plasmon resonance coupled with interferometry. <i>Analytical Chemistry</i> , 2007 , 79, 1855-64	7.8	130
395	An Overview of Label-free Electrochemical Protein Sensors. <i>Sensors</i> , 2007 , 7, 3442-3458	3.8	130
394	Electrochemical Biosensors for Medical and Food Applications. <i>Electroanalysis</i> , 2008 , 20, 616-626	3	125

393	A novel enhancement assay for immunochromatographic test strips using gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 1414-20	4.4	122
392	Amyloid-beta detection with saccharide immobilized gold nanoparticle on carbon electrode. <i>Bioelectrochemistry</i> , 2008 , 74, 118-23	5.6	117
391	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
390	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
389	Analysis of metabolites in sweat as a measure of physical condition. <i>Analytica Chimica Acta</i> , 1994 , 289, 27-34	6.6	107
388	Aptamer-Based Label-Free Immunosensors Using Carbon Nanotube Field-Effect Transistors. <i>Electroanalysis</i> , 2009 , 21, 1285-1290	3	106
387	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
386	Gold nanoparticle-based electrochemical detection of protein phosphorylation. <i>Analytica Chimica Acta</i> , 2007 , 588, 26-33	6.6	104
385	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
384	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
383	Electrochemical coding of single-nucleotide polymorphisms by monobase-modified gold nanoparticles. <i>Analytical Chemistry</i> , 2004 , 76, 1877-84	7.8	99
382	Quantum dot-based immunosensor for the detection of prostate-specific antigen using fluorescence microscopy. <i>Talanta</i> , 2007 , 71, 1494-9	6.2	90
381	Toward the development of smart and low cost point-of-care biosensors based on screen printed electrodes. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 495-505	9.4	88
380	Printable Electrochemical Biosensors: A Focus on Screen-Printed Electrodes and Their Application. <i>Sensors</i> , 2016 , 16,	3.8	87
379	Meat species identification based on the loop mediated isothermal amplification and electrochemical DNA sensor. <i>Food Control</i> , 2010 , 21, 599-605	6.2	84
378	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
377	Single lymphocyte analysis with a microwell array chip. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2007 , 71, 1003-10	4.6	82
376	Label-free electrochemical immunoassay for the detection of human chorionic gonadotropin hormone. <i>Analytical Chemistry</i> , 2006 , 78, 5612-6	7.8	81

375	High-throughput PCR in silicon based microchamber array. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 1015-91.8	11.8	81
374	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
373	Microchamber array based DNA quantification and specific sequence detection from a single copy via PCR in nanoliter volumes. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1482-90	11.8	80
372	Highly sensitive quartz crystal immunosensors for multisample detection of herbicides. <i>Analytica Chimica Acta</i> , 1995 , 304, 139-145	6.6	78
371	Development of Non-enzymatic Electrochemical Glucose Sensor Based on Graphene Oxide Nanoribbon [Gold Nanoparticle Hybrid. <i>Electrochimica Acta</i> , 2014 , 146, 98-105	6.7	77
370	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
369	Integration of enzyme-immobilized column with electrochemical flow cell using micromachining techniques for a glucose detection system. <i>Analytical Chemistry</i> , 1993 , 65, 2731-2735	7.8	76
368	Transformation of Saccharomyces cerevisiae spheroplasts by high electric pulse. <i>FEBS Letters</i> , 1985 , 182, 90-94	3.8	76
367	Detection of Alzheimer's tau protein using localised surface plasmon resonance-based immuno chip. <i>Talanta</i> , 2008 , 74, 1038-42	6.2	75
366	Electrochemical DNA quantification based on aggregation induced by Hoechst 33258. <i>Electrochemistry Communications</i> , 2004 , 6, 337-343	5.1	75
365	Gold Nanoparticle-Based Redox Signal Enhancement for Sensitive Detection of Human Chorionic Gonadotropin Hormone. <i>Electroanalysis</i> , 2008 , 20, 14-21	3	74
364	Rapid detection for primary screening of influenza A virus: microfluidic RT-PCR chip and electrochemical DNA sensor. <i>Analyst, The</i> , 2011 , 136, 2064-8	5	72
363	An electrochemical approach for detecting copper-chelating properties of flavonoids using disposable pencil graphite electrodes: Possible implications in copper-mediated illnesses. <i>Analytica Chimica Acta</i> , 2005 , 538, 273-281	6.6	72
362	An interference localized surface plasmon resonance biosensor based on the photonic structure of Au nanoparticles and SiO ₂ /Si multilayers. <i>ACS Nano</i> , 2009 , 3, 446-52	16.7	70
361	Single-walled carbon nanotube-arrayed microelectrode chip for electrochemical analysis. <i>Electrochemistry Communications</i> , 2007 , 9, 13-18	5.1	68
360	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
359	Application of on-chip cell cultures for the detection of allergic response. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 741-7	11.8	68
358	Label-free electrochemical detection of DNA hybridization on gold electrode. <i>Electrochemistry Communications</i> , 2003 , 5, 887-891	5.1	68

357	A microsensor for urea based on an ion-selective field effect transistor. <i>Analytica Chimica Acta</i> , 1986 , 185, 195-200	6.6	66
356	Label-free cell-based assay using localized surface plasmon resonance biosensor. <i>Analytica Chimica Acta</i> , 2008 , 614, 182-9	6.6	65
355	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
354	A novel BOD sensor based on bacterial luminescence. <i>Biotechnology and Bioengineering</i> , 1993 , 41, 1107-1119	1.1	65
353	Piezoelectric Crystal Biosensor System for Detection of Escherichia Coli. <i>Analytical Letters</i> , 1989 , 22, 2155-2166	2.2	65
352	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
351	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
350	Plasmonic properties of the multispot copper-capped nanoparticle array chip and its application to optical biosensors for pathogen detection of multiplex DNAs. <i>Analytical Chemistry</i> , 2011 , 83, 6215-22	7.8	63
349	Cell separation by an aqueous two-phase system in a microfluidic device. <i>Analyst, The</i> , 2009 , 134, 1994-85		63
348	Gold nanoparticle-based surface-enhanced Raman scattering for noninvasive molecular probing of embryonic stem cell differentiation. <i>PLoS ONE</i> , 2011 , 6, e22802	3.7	62
347	Semi-real time electrochemical monitoring for influenza virus RNA by reverse transcription loop-mediated isothermal amplification using a USB powered portable potentiostat. <i>Analyst, The</i> , 2011 , 136, 5143-50	5	62
346	A compactly integrated flow cell with a chemiluminescent FIA system for determining lactate concentration in serum. <i>Analytical Chemistry</i> , 2001 , 73, 373-8	7.8	62
345	Characterization of a new keratin-degrading bacterium isolated from deer fur. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 93, 595-600	3.3	61
344	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
343	Electrochemical genosensor for the rapid detection of GMO using loop-mediated isothermal amplification. <i>Analyst, The</i> , 2009 , 134, 966-72	5	60
342	Label-free electrical sensing of small-molecule inhibition on tyrosine phosphorylation. <i>Analytical Chemistry</i> , 2007 , 79, 6881-5	7.8	58
341	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
340	Trends in Paper-based Electrochemical Biosensors: From Design to Application. <i>Analytical Sciences</i> , 2018 , 34, 7-18	1.7	54

339	Electrochemical DNA biosensor using a disposable electrochemical printed (DEP) chip for the detection of SNPs from unpurified PCR amplicons. <i>Analyst, The</i> , 2007 , 132, 431-8	5	54
338	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
337	A highly sensitive gold nanoparticle bioprobe based electrochemical immunosensor using screen printed graphene biochip. <i>RSC Advances</i> , 2014 , 4, 58460-58466	3.7	53
336	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
335	Label-free optical detection of aptamer-protein interactions using gold-capped oxide nanostructures. <i>Analytical Biochemistry</i> , 2008 , 379, 1-7	3.1	53
334	Rapid and onsite BOD sensing system using luminous bacterial cells-immobilized chip. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1345-50	11.8	52
333	Estimation of maturity of compost from food wastes and agro-residues by multiple regression analysis. <i>Bioresource Technology</i> , 2006 , 97, 1979-85	11	52
332	A microsensor for adenosine-5'-triphosphate pH-sensitive field effect transistors. <i>Analytica Chimica Acta</i> , 1986 , 187, 287-291	6.6	52
331	Self-propelled continuous-flow PCR in capillary-driven microfluidic device: Microfluidic behavior and DNA amplification. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 303-310	8.5	51
330	DNA-Directed Attachment of Carbon Nanotubes for Enhanced Label-Free Electrochemical Detection of DNA Hybridization. <i>Electroanalysis</i> , 2004 , 16, 1667-1672	3	51
329	On-chip quantitative detection of pathogen genes by autonomous microfluidic PCR platform. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 725-30	11.8	49
328	Fabrication of an oxygen electrode using semiconductor technology. <i>Analytical Chemistry</i> , 1988 , 60, 1078-1080	4.9	49
327	Localized surface plasmon resonance detection of biological toxins using cell surface oligosaccharides on glyco chips. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 4173-80	9.5	48
326	Interference localized surface plasmon resonance nanosensor tailored for the detection of specific biomolecular interactions. <i>Analytical Chemistry</i> , 2010 , 82, 1221-7	7.8	47
325	Development of acetylcholine sensor using carbon fiber (amperometric determination). <i>Biosensors and Bioelectronics</i> , 1991 , 6, 675-80	11.8	47
324	Micromachining microcarrier-based biomolecular encoding for miniaturized and multiplexed immunoassay. <i>Analytical Chemistry</i> , 2003 , 75, 4125-31	7.8	45
323	Ultramicro acetylcholine sensor based on an enzyme-modified carbon fibre electrode. <i>Analytica Chimica Acta</i> , 1991 , 251, 129-134	6.6	45
322	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

321	Label-free electrochemical detection of the phosphorylated and non-phosphorylated forms of peptides based on tyrosine oxidation. <i>Electrochemistry Communications</i> , 2007 , 9, 976-980	5.1	43
320	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
319	Cold-active enzymes from cold-adapted bacteria. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 1997 , 74, 441-444	1.8	42
318	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
317	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
316	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
315	Effects of bis(2-ethylhexyl) phthalate and benzo[a]pyrene on the embryos of Japanese medaka (<i>Oryzias latipes</i>). <i>Environmental Toxicology and Pharmacology</i> , 2004 , 16, 141-5	5.8	39
314	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
313	Field-deployable rapid multiple biosensing system for detection of chemical and biological warfare agents. <i>Microsystems and Nanoengineering</i> , 2018 , 4,	7.7	37
312	Development of a novel hand-held toluene gas sensor: Possible use in the prevention and control of sick building syndrome. <i>Measurement: Journal of the International Measurement Confederation</i> , 2006 , 39, 490-496	4.6	36
311	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
310	Multisample analysis using an array of microreactors for an alternating-current field-enhanced latex immunoassay. <i>Analytical Chemistry</i> , 1994 , 66, 778-81	7.8	35
309	Microbial-Fet Alcohol Sensor. <i>Analytical Letters</i> , 1987 , 20, 81-96	2.2	35
308	A picoliter chamber array for cell-free protein synthesis. <i>Journal of Biochemistry</i> , 2004 , 136, 149-54	3.1	34
307	Techniques for patterning and guidance of primary culture neurons on micro-electrode arrays. <i>Sensors and Actuators B: Chemical</i> , 2002 , 83, 15-21	8.5	34
306	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
305	Isolation of a psychrotrophic bacterium from the organic residue of a water tank keeping rainbow trout and antibacterial effect of violet pigment produced from the strain. <i>Biochemical Engineering Journal</i> , 2002 , 12, 79-86	4.2	33
304	Microbial BOD Sensor Utilizing Thermophilic Bacteria. <i>Analytical Letters</i> , 1989 , 22, 791-801	2.2	33

303	Kinetics of an amperometric glucose sensor with a soluble mediator. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 273, 107-117		33
302	Non-invasive characterization of mouse embryonic stem cell derived cardiomyocytes based on the intensity variation in digital beating video. <i>Analyst, The</i> , 2010 , 135, 1624-30	5	32
301	Functionalized multi-walled carbon nanotubes as supporting matrix for enhanced ethanol oxidation on Pt-based catalysts. <i>Electrochemistry Communications</i> , 2011 , 13, 746-749	5.1	32
300	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
299	Simultaneous topographic and fluorescence imagings of recombinant bacterial cells containing a green fluorescent protein gene detected by a scanning near-field optical/atomic force microscope. <i>Analytical Chemistry</i> , 1997 , 69, 3697-701	7.8	32
298	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
297	A screening of phage displayed peptides for the recognition of fullerene (C60). <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004 , 28, 185-190		32
296	Selective flow-injection determination of methanol in the presence of ethanol based on a multi-enzyme system with chemiluminescence detection. <i>Analytica Chimica Acta</i> , 1993 , 280, 179-184	6.6	32
295	Sensitive Detection of Glycated Albumin in Human Serum Albumin Using Electrochemiluminescence. <i>Analytical Chemistry</i> , 2017 , 89, 5909-5915	7.8	31
294	Time-lapse Raman imaging of osteoblast differentiation. <i>Scientific Reports</i> , 2015 , 5, 12529	4.9	31
293	Electroactive chitosan nanoparticles for the detection of single-nucleotide polymorphisms using peptide nucleic acids. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 2759-67	4.4	31
292	Damage to and recovery of coastlines polluted with C-heavy oil spilled from the Nakhodka. <i>Water Research</i> , 2006 , 40, 981-9	12.5	31
291	Amperometric needle-type glucose sensor based on a modified platinum electrode with diminished response to interfering materials. <i>Analytica Chimica Acta</i> , 1992 , 265, 5-14	6.6	31
290	Polyvinylbutyral resin membrane for enzyme immobilization to an isfet microbiosensor. <i>Journal of Molecular Catalysis</i> , 1986 , 37, 133-139		31
289	Novel gold-capped nanopillars imprinted on a polymer film for highly sensitive plasmonic biosensing. <i>Analytical Chemistry</i> , 2012 , 84, 5494-500	7.8	30
288	A Molecularly Imprinted Nicotine-Selective Polymer. <i>Analytical Letters</i> , 1996 , 29, 2071-2078	2.2	30
287	Amperometric detection of alcohol in beer using a flow cell and immobilized alcohol dehydrogenase. <i>Analytical Chemistry</i> , 1991 , 63, 2391-3	7.8	30
286	Isolation of a novel alkaline-induced laccase from <i>Flammulina velutipes</i> and its application for hair coloring. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 113, 575-9	3.3	29

285	Detection of influenza virus using a lateral flow immunoassay for amplified DNA by a microfluidic RT-PCR chip. <i>Analyst, The</i> , 2012 , 137, 3422-6	5	29
284	Direct Electrochemical Oxidation of Cellulose: A Cellulose-Based Fuel Cell System. <i>Electroanalysis</i> , 2010 , 22, 1688-1694	3	29
283	Electrochemical consideration on the optimum pH of bilirubin oxidase. <i>Analytical Biochemistry</i> , 2007 , 370, 98-106	3.1	28
282	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
281	Amperometric glucose biosensor manufactured by a printing technique. <i>Analytica Chimica Acta</i> , 1995 , 304, 157-164	6.6	28
280	Nafion-coated carbon fiber for acetylcholine and choline sensors. <i>Electroanalysis</i> , 1993 , 5, 17-22	3	28
279	Micro-biosensors for clinical analyses. <i>Sensors and Actuators</i> , 1988 , 15, 199-207		28
278	A carbon nanotube structured biomimetic catalyst for polysaccharide degradation. <i>Chemical Communications</i> , 2011 , 47, 7176-8	5.8	27
277	A rapid BOD sensing system using luminescent recombinants of Escherichia coli. <i>Biosensors and Bioelectronics</i> , 2003 , 19, 115-21	11.8	27
276	Self-assembly of cholesterol-hydrophobic dendrimer conjugates into micelle-like structure: Preparation and hydrophobic solubilization of paclitaxel. <i>Science and Technology of Advanced Materials</i> , 2005 , 6, 452-456	7.1	27
275	Rapid and highly sensitive detection of malaria-infected erythrocytes using a cell microarray chip. <i>PLoS ONE</i> , 2010 , 5, e13179	3.7	27
274	Atomic force microscope-based dissection of human metaphase chromosomes and high resolutional imaging by carbon nanotube tip. <i>Archives of Histology and Cytology</i> , 2002 , 65, 473-9		26
273	Alcohol sensor based on membrane-bound alcohol dehydrogenase. <i>Analytica Chimica Acta</i> , 1989 , 218, 61-68	6.6	26
272	Amperometric alcohol sensor based on an immobilised bacteria cell membrane. <i>Analyst, The</i> , 1987 , 112, 1747-9	5	26
271	Pulse immunoassay for <i>Candida albicans</i> . <i>Analytical Chemistry</i> , 1985 , 57, 1998-2002	7.8	26
270	An organic pollution sensor based on surface photovoltage. <i>Sensors and Actuators B: Chemical</i> , 1998 , 53, 163-172	8.5	25
269	Effect of alkylphenols on adult male medaka: plasma vitellogenin goes up to the level of estrous female. <i>Environmental Toxicology and Pharmacology</i> , 2003 , 15, 33-6	5.8	25
268	Effects of tamoxifen, 17 β -ethynylestradiol, flutamide, and methyltestosterone on plasma vitellogenin levels of male and female Japanese medaka (<i>Oryzias latipes</i>). <i>Environmental Toxicology and Pharmacology</i> , 2004 , 17, 29-33	5.8	25

267	Micro-choline sensor for acetylcholinesterase determination. <i>Analytica Chimica Acta</i> , 1993 , 281, 673-6796.6	25
266	Construction of amorphous silicon ISFET. <i>Sensors and Actuators</i> , 1989 , 16, 55-65	25
265	Spatial imaging of luciferase gene expression in transgenic fish. <i>Nucleic Acids Research</i> , 1990 , 18, 1072	20.1 25
264	Development of biofuel cells based on gold nanoparticle decorated multi-walled carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2011 , 30, 204-10	11.8 24
263	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
262	On-chip capillary electrophoresis for alkaline phosphatase testing. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 1009-14	11.8 24
261	A novel microbial sensor using luminous bacteria. <i>Biosensors and Bioelectronics</i> , 1992 , 7, 273-7	11.8 24
260	Photochemical energy conversion using immobilized blue-green algae. <i>Journal of Biotechnology</i> , 1986 , 4, 73-80	3.7 24
259	Carbon Nanotube Amperometric Chips with Pneumatic Micropumps. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 2064-2067	1.4 24
258	Ultra-rapid flow-through polymerase chain reaction microfluidics using vapor pressure. <i>Biosensors and Bioelectronics</i> , 2011 , 27, 88-94	11.8 23
257	Semi-real time imaging of the expression of a maize polyubiquitin promoter-GFP gene in transgenic rice. <i>Plant Science</i> , 1997 , 124, 49-56	5.3 23
256	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
255	Microbial electrode sensor for vitamin B12. <i>Analytica Chimica Acta</i> , 1987 , 199, 93-97	6.6 23
254	Single cell trapping and cell-cell interaction monitoring of cardiomyocytes in a designed microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 43-50	8.5 22
253	Detection of the most common corneal dystrophies caused by BIGH3 gene point mutations using a multispot gold-capped nanoparticle array chip. <i>Analytical Chemistry</i> , 2010 , 82, 1349-57	7.8 22
252	An electrochemical on-field sensor system for the detection of compost maturity. <i>Analytica Chimica Acta</i> , 2007 , 581, 364-9	6.6 22
251	Accurate detection of carcinoma cells by use of a cell microarray chip. <i>PLoS ONE</i> , 2012 , 7, e32370	3.7 21
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