Eiichi Tamiya

List of Publications by Year in Descending Order

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	Assembly of Glycochips with Mammalian GSLs Mimetics toward the On-site Detection of Biological Toxins.. *ACS Omega*, **2021**, 6, 32597-32606	3.9	1
409	Au-Capped Nanopillar Immobilized with a Length-Controlled Glycopolymer for Immune-Related Protein Detection.. *ACS Applied Bio Materials*, **2021**, 4, 7913-7920	4.1	
408	Towards On-site Determination of Secretory IgA in Artificial Saliva with Gold-Linked Electrochemical Immunoassay (GLEIA) Using Portable Potentiostat and Disposable Printed Electrode. *Applied Biochemistry and Biotechnology*, **2021**, 193, 1311-1320	3.2	4
407	Modeling of Solid and Surface **2021**, 407-424		
406	Deskilled and Rapid Drug-Resistant Gene Detection by Centrifugal Force-Assisted Thermal Convection PCR Device. *Sensors*, **2021**, 21,	3.8	1
405	study of monocytic THP-1 leukemia cell membrane elasticity with a single-cell microfluidic-assisted optical trapping system. *Biomedical Optics Express*, **2020**, 11, 6027-6037	3.5	0
404	Feasibility of a Novel Mobile C-Reactive Protein-Testing Device Using Gold-Linked Electrochemical Immunoassay: Clinical Performance Study. *JMIR MHealth and UHealth*, **2020**, 8, e18782	5.5	1
403	Real-Time Monitoring and Detection of Single-Cell Level Cytokine Secretion Using LSPR Technology. *Micromachines*, **2020**, 11,	3.3	7
402	POCT electrochemical biosensors towards digital health. *Denki Kagaku*, **2020**, 88, 299-304	0	
401	A Microfluidic Platform for Single Cell Fluorometric Granzyme B Profiling. *Theranostics*, **2020**, 10, 123-132	12.1	9
400	Cauliflower-Like Nanostructured Localized Surface Plasmon Resonance Biosensor Chip for Cytokine Detection. *Bulletin of the Chemical Society of Japan*, **2020**, 93, 1121-1126	5.1	6
399	SERS Active Hierarchical Nanopillar-huddle Array Fabricated via the Combination of Nanoimprint Lithography and Anodization. *Electrochemistry*, **2020**, 88, 165-173	1.2	1
398	Hydrogen peroxide detection with a silver nanoparticle grating chip fabricated by plasmonic plating. *Analytical Methods*, **2019**, 11, 2991-2995	3.2	6
397	Single Cell Analysis of Neutrophils NETs by Microscopic LSPR Imaging System. *Micromachines*, **2019**, 11,	3.3	2
396	Single Cell Receptor Analysis Aided by a Centrifugal Microfluidic Device for Immune Cells Profiling. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 1834-1839	5.1	7
395	Utility of Centrifugation-Controlled Convective (C3) Flow for Rapid On-chip ELISA. *Scientific Reports* , **2019**, 9, 20150	4.9	3
394	An ultra-sensitive label-free electrochemiluminescence CKMB immunosensor using a novel nanocomposite-modified printed electrode.. *RSC Advances*, **2019**, 9, 34283-34292	3.7	8

393	One-step nanoimprinted hybrid micro-/nano-structure for in situ protein detection of isolated cell array via localized surface plasmon resonance. *Japanese Journal of Applied Physics*, **2018**, 57, 03EC03	1.4	6
392	Chemically Regulated ROS Generation from Gold Nanoparticles for Enzyme-Free Electrochemiluminescent Immunosensing. *Analytical Chemistry*, **2018**, 90, 5773-5780	7.8	18
391	Instant enumeration of total viable bacterial counts for food quality assurance using DEP-On-Go sensor. *Analytical Methods*, **2018**, 10, 1585-1592	3.2	2
390	Field-deployable rapid multiple biosensing system for detection of chemical and biological warfare agents. *Microsystems and Nanoengineering*, **2018**, 4,	7.7	37
389	Fabrication of Surface-enhanced Raman Spectroscopy (SERS) Active Electrodes by Silver Sputtering Deposition for Electrochemical SERS Analysis. *Electroanalysis*, **2018**, 30, 1432-1437	3	4
388	Trends in Paper-based Electrochemical Biosensors: From Design to Application. *Analytical Sciences*, **2018**, 34, 7-18	1.7	54
387	Luminol-based electrochemiluminescent biosensors for highly sensitive medical diagnosis and rapid antioxidant detection. *Japanese Journal of Applied Physics*, **2018**, 57, 03EA05	1.4	5
386	Electrochemiluminescence-based Monitoring of Activated Human Neutrophils Using Luminol Derivative Immobilized onto Screen-printed Electrodes. *Chemistry Letters*, **2018**, 47, 1337-1340	1.7	2
385	A New Type of LSPR Sensor Featuring Immobilized Liposome or Phospholipid Single Layer. *Proceedings (mdpi)*, **2018**, 2, 791	0.3	
384	Electrochemically Modulated Surface-Enhanced Raman Spectra of Aminoglutethimide (AGI) on a Ag-Sputtered Electrode. *Bulletin of the Chemical Society of Japan*, **2018**, 91, 1579-1585	5.1	7
383	Synthesis of Recombinant Mouse Crystallin Proteins and in Vitro Measurement of Their Refractivity. *ACS Biomaterials Science and Engineering*, **2017**, 3, 502-508	5.5	
382	Sensitive Detection of Glycated Albumin in Human Serum Albumin Using Electrochemiluminescence. *Analytical Chemistry*, **2017**, 89, 5909-5915	7.8	31
381	Quenched Electrochemiluminescence Imaging using Electro-Generated Substrate for Sensitive Detection of Catalase as Potential Enzyme Reporter System. *Electrochimica Acta*, **2017**, 240, 447-455	6.7	8
380	Photocatalytic alginate fuel cells for energy production and refining of macroalgae. *RSC Advances*, **2017**, 7, 35613-35618	3.7	1
379	Centrifugation-Controlled Thermal Convection and Its Application to Rapid Microfluidic Polymerase Chain Reaction Devices. *Analytical Chemistry*, **2017**, 89, 12797-12804	7.8	7
378	Pressure free nanoimprinting lithography using ladder-type HSQ material for LSPR biosensor chip. *Sensors and Actuators B: Chemical*, **2017**, 242, 47-55	8.5	14
377	Electrochemiluminescence Based Enzymatic Urea Sensor Using Nanohybrid of Isoluminol-gold Nanoparticle-graphene Oxide Nanoribbons. *Electroanalysis*, **2017**, 29, 938-943	3	14
376	Carbon-Based Nanomaterials in Biomass-Based Fuel-Fed Fuel Cells. *Sensors*, **2017**, 17,	3.8	15

375	Toward the development of smart and low cost point-of-care biosensors based on screen printed electrodes. *Critical Reviews in Biotechnology*, **2016**, 36, 495-505	9.4	88
374	Versatile Micropatterning of Plasmonic Nanostructures by Visible Light Induced Electroless Silver Plating on Gold Nanoseeds. *ACS Applied Materials & Interfaces*, **2016**, 8, 23932-40	9.5	9
373	Rapid sensing of antioxidant capacity based on electrochemiluminescence induced by electrochemically generated reactive oxygen species. *Electrochimica Acta*, **2016**, 222, 580-586	6.7	12
372	PEP-on-DEP: A competitive peptide-based disposable electrochemical aptasensor for renin diagnostics. *Biosensors and Bioelectronics*, **2016**, 84, 120-5	11.8	13
371	DEP-On-Go for Simultaneous Sensing of Multiple Heavy Metals Pollutants in Environmental Samples. *Sensors*, **2016**, 17,	3.8	16
370	Printable Electrochemical Biosensors: A Focus on Screen-Printed Electrodes and Their Application. *Sensors*, **2016**, 16,	3.8	87
369	Non-invasive Video Image-based Analysis Method Coupled to Field Potential Recording for Evaluation of the Drug-induced Effect in Cardiac Tissue. *Electrochemistry*, **2016**, 84, 283-289	1.2	1
368	Impact of New Quick Gold Nanoparticle-Based Cortisol Assay During Adrenal Vein Sampling for Primary Aldosteronism. *Journal of Clinical Endocrinology and Metabolism*, **2016**, 101, 2554-61	5.6	36
367	Comprehensive interrogation of electrochemical reaction and energy conversion of a direct fucose fuel cell. *Journal of Solid State Electrochemistry*, **2016**, 20, 1481-1488	2.6	4
366	Mesoporous poly(ethylene-co-vinyl alcohol) monolith captured with silver nanoparticles as a SERS substrate: facile fabrication and ultra-high sensitivity. *RSC Advances*, **2015**, 5, 25777-25780	3.7	13
365	On-chip quantitative detection of pathogen genes by autonomous microfluidic PCR platform. *Biosensors and Bioelectronics*, **2015**, 74, 725-30	11.8	49
364	Time-lapse Raman imaging of osteoblast differentiation. *Scientific Reports*, **2015**, 5, 12529	4.9	31
363	Centrifugal microfluidic platform for single-cell level cardiomyocyte-based drug profiling and screening. *Lab on A Chip*, **2015**, 15, 3572-80	7.2	17
362	Nanobiosensors and Nanobioanalyses: A Review **2015**, 3-20		1
361	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	6.6	53
360	Enhanced Electrochemiluminescence of N-(aminobutyl)-N-(ethylisoluminol) Functionalized Gold Nanoparticles by Graphene Oxide Nanoribbons. *Electrochimica Acta*, **2015**, 180, 409-418	6.7	13
359	Single cell trapping and cell–cell interaction monitoring of cardiomyocytes in a designed microfluidic chip. *Sensors and Actuators B: Chemical*, **2015**, 207, 43-50	8.5	22
358	Self-propelled continuous-flow PCR in capillary-driven microfluidic device: Microfluidic behavior and DNA amplification. *Sensors and Actuators B: Chemical*, **2015**, 206, 303-310	8.5	51

357	Digital Biodevice — Towards High Throughput Single Biomolecule and Single Cell Analyses —. *Bunseki Kagaku*, **2015**, 64, 397-411	0.2	2
356	Optical microscopy imaging for the diagnosis of the pharmacological reaction of mouse embryonic stem cell-derived cardiomyocytes (mESC-CMs). *Analyst, The*, **2015**, 140, 6500-7	5	2
355	Mobile/wearable electrochemical biosensors with printable electrodes **2015**,		2
354	Electrochemical Biological Sensors Based on Directly Synthesized Carbon Nanotube Electrodes **2015**, 179-186		
353	In situ Raman imaging of osteoblastic mineralization. *Journal of Raman Spectroscopy*, **2014**, 45, 157-161	2.3	11
352	A highly sensitive gold nanoparticle bioprobe based electrochemical immunosensor using screen printed graphene biochip. *RSC Advances*, **2014**, 4, 58460-58466	3.7	53
351	Development of Non-enzymatic Electrochemical Glucose Sensor Based on Graphene Oxide Nanoribbon Gold Nanoparticle Hybrid. *Electrochimica Acta*, **2014**, 146, 98-105	6.7	77
350	Rapid and highly sensitive detection by a real-time polymerase chain reaction using a chip coated with its reagents. *Analytical Sciences*, **2014**, 30, 569-74	1.7	8
349	Quantitative Detection for Porphyromonas gingivalis in Tooth Pocket and Saliva by Portable Electrochemical DNA Sensor Linked with PCR. *Electroanalysis*, **2014**, 26, 2686-2692	3	16
348	Integrating reductive and synthetic approaches in biology using man-made cell-like compartments. *Scientific Reports*, **2014**, 4, 4722	4.9	3
347	Direct Energy Extraction from Brown Macroalgae-Derived Alginate by Gold Nanoparticles on Functionalized Carbon Nanotubes. *ChemCatChem*, **2014**, 6, 135-141	5.2	5
346	Feasibility study of paper-based surface enhanced Raman spectroscopy of tear fluids for onsite therapeutic drug monitoring **2014**,		1
345	Localized surface plasmon resonance detection of biological toxins using cell surface oligosaccharides on glyco chips. *ACS Applied Materials & Interfaces*, **2013**, 5, 4173-80	9.5	48
344	Gold-linked electrochemical immunoassay on single-walled carbon nanotube for highly sensitive detection of human chorionic gonadotropin hormone. *Biosensors and Bioelectronics*, **2013**, 42, 592-7	11.8	39
343	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	8.5	3
342	Electrochemical characterization of a unique, "neutral" laccase from Flammulina velutipes. *Journal of Bioscience and Bioengineering*, **2013**, 115, 159-67	3.3	7
341	Gold Nanostructure LSPR-Based Biosensors for Biomedical Diagnosis. *Springer Series on Chemical Sensors and Biosensors*, **2013**, 171-188	2	2
340	Optimization of Functionalized Carbon Nanotube Matrices for Enhanced Ethanol Oxidation Reaction. *Journal of the Electrochemical Society*, **2013**, 160, G3062-G3068	3.9	2

339	Functionalized Carbon Nanotube Matrix for Inducing Noncovalent Interactions Toward Enhanced Catalytic Performance of Metallic Electrode. *Materials Research Society Symposia Proceedings*, **2013**, 1549, 135-140		
338	Isolation of a novel alkaline-induced laccase from Flammulina velutipes and its application for hair coloring. *Journal of Bioscience and Bioengineering*, **2012**, 113, 575-9	3.3	29
337	Discrimination of primitive endoderm in embryoid bodies by Raman microspectroscopy. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 1073-81	4.4	11
336	Single-beam optical biosensing based on enzyme-linked laser nanopolymerization of o-phenylenediamine. *Analytical Chemistry*, **2012**, 84, 9811-7	7.8	9
335	Electrochemical detection of specific DNA and respiratory activity of Escherichia coli. *Electrochimica Acta*, **2012**, 82, 132-136	6.7	19
334	Detection of influenza virus using a lateral flow immunoassay for amplified DNA by a microfluidic RT-PCR chip. *Analyst, The*, **2012**, 137, 3422-6	5	29
333	Novel gold-capped nanopillars imprinted on a polymer film for highly sensitive plasmonic biosensing. *Analytical Chemistry*, **2012**, 84, 5494-500	7.8	30
332	Enhancing catalytic performance of Pt-based electrodes with a noncovalent interaction-induced functionalized carbon nanotube-grafted matrix. *Journal of Materials Chemistry*, **2012**, 22, 14705		15
331	Accurate detection of carcinoma cells by use of a cell microarray chip. *PLoS ONE*, **2012**, 7, e32370	3.7	21
330	STUDY OF CO-ASSEMBLED CONDUCTING POLYMERS FOR ENHANCED ETHANOL ELECTRO-OXIDATION REACTION. *Materials Research Society Symposia Proceedings*, **2012**, 1446, 19		1
329	Propitious Immobilization of Gold Nanoparticles on Poly(dimethylsiloxane) Substrate for Local Surface Plasmon Resonance Based Biosensor. *Japanese Journal of Applied Physics*, **2012**, 51, 037001	1.4	3
328	Propitious Immobilization of Gold Nanoparticles on Poly(dimethylsiloxane) Substrate for Local Surface Plasmon Resonance Based Biosensor. *Japanese Journal of Applied Physics*, **2012**, 51, 037001	1.4	2
327	The Gene Detection Device for Medical Use. *IEEJ Transactions on Sensors and Micromachines*, **2012**, 132, 365-370	0.2	
326	Rapid detection for primary screening of influenza A virus: microfluidic RT-PCR chip and electrochemical DNA sensor. *Analyst, The*, **2011**, 136, 2064-8	5	72
325	Co-assembled conducting polymer for enhanced ethanol electrooxidation on Pt-based catalysts. *Journal of Materials Chemistry*, **2011**, 21, 4068		12
324	A carbon nanotube structured biomimetic catalyst for polysaccharide degradation. *Chemical Communications*, **2011**, 47, 7176-8	5.8	27
323	Gold nanoparticle-based surface-enhanced Raman scattering for noninvasive molecular probing of embryonic stem cell differentiation. *PLoS ONE*, **2011**, 6, e22802	3.7	62
322	Label-free detection of leptin antibody-antigen interaction by using LSPR-based optical biosensor. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 4188-93	1.3	10

321	Study of DNA Amplification Efficiency Based on Temperature Analyses of the Moving Fluid in a Liquid-Plug Flow PCR System. *Bulletin of the Chemical Society of Japan*, **2011**, 84, 1075-1081	5.1	0
320	A practical liquid plug flow-through polymerase chain-reaction system based on a heat-resistant resin chip. *Analytical Sciences*, **2011**, 27, 225-30	1.7	10
319	Micro- and Nano-fabrication of Stimulus-responsive Polymer using Nanoimprint Lithography. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2011**, 24, 63-70	0.7	12
318	Structural assembly effects of Pt nanoparticle□arbon nanotube□olyaniline nanocomposites on the enhancement of biohydrogen fuel cell performance. *Electrochimica Acta*, **2011**, 56, 9875-9882	6.7	20
317	Ultra-rapid flow-through polymerase chain reaction microfluidics using vapor pressure. *Biosensors and Bioelectronics*, **2011**, 27, 88-94	11.8	23
316	Development of biofuel cells based on gold nanoparticle decorated multi-walled carbon nanotubes. *Biosensors and Bioelectronics*, **2011**, 30, 204-10	11.8	24
315	Local Surface Plasmon Resonance and Electrochemical Biosensing Systems for Analyzing Functional Peptides **2011**, 211-223		
314	Construction of branched DNA for SNP determination on glass-chip using photochemical ligation. *Biochip Journal*, **2011**, 5, 206-213	4	3
313	A rapid gel electrophoretic chip for serum cholesterol determination. *Analyst, The*, **2011**, 136, 1826-30	5	5
312	Optical trapping for the characterization of amyloid-beta aggregation kinetics. *Analyst, The*, **2011**, 136, 4164-7	5	6
311	Semi-real time electrochemical monitoring for influenza virus RNA by reverse transcription loop-mediated isothermal amplification using a USB powered portable potentiostat. *Analyst, The*, **2011**, 136, 5143-50	5	62
310	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, 9424-30	7.8	60
309	Plasmonic properties of the multispot copper-capped nanoparticle array chip and its application to optical biosensors for pathogen detection of multiplex DNAs. *Analytical Chemistry*, **2011**, 83, 6215-22	7.8	63
308	Functionalized multi-walled carbon nanotubes as supporting matrix for enhanced ethanol oxidation on Pt-based catalysts. *Electrochemistry Communications*, **2011**, 13, 746-749	5.1	32
307	Fabrication and Characterization of Planar Screen-Printed Ag/AgCl Reference Electrode for Disposable Sensor Strip. *Japanese Journal of Applied Physics*, **2010**, 49, 097003	1.4	15
306	Immobilization of Gold Nanoparticles on Aluminum Oxide Nanoporous Structure for Highly Sensitive Plasmonic Sensing. *Japanese Journal of Applied Physics*, **2010**, 49, 06GM02	1.4	6
305	Interference localized surface plasmon resonance nanosensor tailored for the detection of specific biomolecular interactions. *Analytical Chemistry*, **2010**, 82, 1221-7	7.8	47
304	Meat species identification based on the loop mediated isothermal amplification and electrochemical DNA sensor. *Food Control*, **2010**, 21, 599-605	6.2	84

303	A biohydrogen fuel cell using a conductive polymer nanocomposite based anode. *Biosensors and Bioelectronics*, **2010**, 25, 2509-14	11.8	16
302	Detection of the most common corneal dystrophies caused by BIGH3 gene point mutations using a multispot gold-capped nanoparticle array chip. *Analytical Chemistry*, **2010**, 82, 1349-57	7.8	22
301	Non-invasive characterization of mouse embryonic stem cell derived cardiomyocytes based on the intensity variation in digital beating video. *Analyst, The*, **2010**, 135, 1624-30	5	32
300	Sensors. *Advances in Biochemical Engineering/Biotechnology*, **2010**, 119, 231-50	1.7	
299	Highly Sensitive Method for Electrochemical Detection of Silver Nanoparticle Labels in Metalloimmunoassay with Preoxidation/Reduction Signal Enhancement. *Electrochemistry*, **2010**, 78, 748-753	1.2	9
298	An optimal design method for preventing air bubbles in high-temperature microfluidic devices. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 457-64	4.4	32
297	RNA aptamer-based optical nanostructured sensor for highly sensitive and label-free detection of antigen-antibody reactions. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 2575-81	4.4	18
296	Nanostructured biochip for label-free and real-time optical detection of polymerase chain reaction. *Analytica Chimica Acta*, **2010**, 661, 111-6	6.6	11
295	Direct Electrochemical Oxidation of Cellulose: A Cellulose-Based Fuel Cell System. *Electroanalysis*, **2010**, 22, 1688-1694	3	29
294	Multi-chamber PCR chip with simple liquid introduction utilizing the gas permeability of polydimethylsiloxane. *Sensors and Actuators B: Chemical*, **2010**, 149, 284-290	8.5	24
293	Rapid and highly sensitive detection of malaria-infected erythrocytes using a cell microarray chip. *PLoS ONE*, **2010**, 5, e13179	3.7	27
292	Development of Cell Chip System for Cytological Analysis and Diagnosis. *IEEJ Transactions on Electronics, Information and Systems*, **2010**, 130, 1795-1799	0.1	1
291	Trapping probability analysis of a DNA trap using electric and hydrodrag force fields in tapered microchannels. *Physical Review E*, **2009**, 79, 051902	2.4	3
290	Microfluidic and Label-Free Multi-Immunosensors Based on Carbon Nanotube Microelectrodes. *Japanese Journal of Applied Physics*, **2009**, 48, 06FJ02	1.4	14
289	Aptamer-Based Label-Free Immunosensors Using Carbon Nanotube Field-Effect Transistors. *Electroanalysis*, **2009**, 21, 1285-1290	3	106
288	Conjugal transformation and transposon and chemical mutagenesis of gram-negative selenate-respiring Citrobacter sp. strain JSA. *Current Microbiology*, **2009**, 59, 88-94	2.4	2
287	Determination of trace amounts of sodium and lithium in zirconium dioxide (ZrO2) using liquid electrode plasma optical emission spectrometry. *Analytica Chimica Acta*, **2009**, 634, 153-7	6.6	38
286	Cell separation by an aqueous two-phase system in a microfluidic device. *Analyst, The*, **2009**, 134, 1994-85		63

285	Electrochemical genosensor for the rapid detection of GMO using loop-mediated isothermal amplification. *Analyst, The*, **2009**, 134, 966-72	5	60
284	An interference localized surface plasmon resonance biosensor based on the photonic structure of Au nanoparticles and SiO2/Si multilayers. *ACS Nano*, **2009**, 3, 446-52	16.7	70
283	Electrochemical DNA biosensors: protocols for intercalator-based detection of hybridization in solution and at the surface. *Methods in Molecular Biology*, **2009**, 504, 99-113	1.4	13
282	Detection of Alzheimer's tau protein using localised surface plasmon resonance-based immunochip. *Talanta*, **2008**, 74, 1038-42	6.2	75
281	Detection of Alzheimer's amyloid beta aggregation by capturing molecular trails of individual assemblies. *Biochemical and Biophysical Research Communications*, **2008**, 377, 725-728	3.4	20
280	Label-free detection of melittin binding to a membrane using electrochemical-localized surface plasmon resonance. *Analytical Chemistry*, **2008**, 80, 1859-64	7.8	53
279	Microsystems technology and biosensing. *Advances in Biochemical Engineering/Biotechnology*, **2008**, 109, 285-350	1.7	4
278	A Microfluidic Chip Based on Localized Surface Plasmon Resonance for Real-Time Monitoring of Antigen–Antibody Reactions. *Japanese Journal of Applied Physics*, **2008**, 47, 1337-1341	1.4	39
277	Electroanalytical Characterization of Adenosine Mono-, Di- and Triphosphate Oxidation on Carbon Electrode. *Analytical Letters*, **2008**, 41, 2077-2087	2.2	9
276	Label-Free Optical Detection of Protein Antibody–Antigen Interaction on Au Capped Porous Anodic Alumina Layer Chip. *Japanese Journal of Applied Physics*, **2008**, 47, 1351-1354	1.4	14
275	Label-free Electrochemical Detection for Food Allergen using Screen Printed Carbon Electrode. *Electrochemistry*, **2008**, 76, 606-609	1.2	14
274	Development of a compact stacked flatbed reactor with immobilized high-density bacteria for hydrogen production. *International Journal of Hydrogen Energy*, **2008**, 33, 1593-1597	6.7	18
273	Electroactive chitosan nanoparticles for the detection of single-nucleotide polymorphisms using peptide nucleic acids. *Analytical and Bioanalytical Chemistry*, **2008**, 391, 2759-67	4.4	31
272	Gold Nanoparticle-Based Redox Signal Enhancement for Sensitive Detection of Human Chorionic Gonadotropin Hormone. *Electroanalysis*, **2008**, 20, 14-21	3	74
271	Electrochemical Biosensors for Medical and Food Applications. *Electroanalysis*, **2008**, 20, 616-626	3	125
270	Amyloid-beta detection with saccharide immobilized gold nanoparticle on carbon electrode. *Bioelectrochemistry*, **2008**, 74, 118-23	5.6	117
269	Label-free optical detection of aptamer-protein interactions using gold-capped oxide nanostructures. *Analytical Biochemistry*, **2008**, 379, 1-7	3.1	53
268	Label-free cell-based assay using localized surface plasmon resonance biosensor. *Analytica Chimica Acta*, **2008**, 614, 182-9	6.6	65

267	AFM picking-up manipulation of the metaphase chromosome fragment by using the tweezers-type probe. *Ultramicroscopy*, **2008**, 108, 847-54	3.1	10
266	Nanomaterial-based electrochemical biosensors for medical applications. *TrAC - Trends in Analytical Chemistry*, **2008**, 27, 585-592	14.6	172
265	Carbon Nanotube Amperometric Chips with Pneumatic Micropumps. *Japanese Journal of Applied Physics*, **2008**, 47, 2064-2067	1.4	24
264	Label-free electrical sensing of small-molecule inhibition on tyrosine phosphorylation. *Analytical Chemistry*, **2007**, 79, 6881-5	7.8	58
263	Label-free DNA biosensor based on localized surface plasmon resonance coupled with interferometry. *Analytical Chemistry*, **2007**, 79, 1855-64	7.8	130
262	Electrochemical DNA biosensor using a disposable electrochemical printed (DEP) chip for the detection of SNPs from unpurified PCR amplicons. *Analyst, The*, **2007**, 132, 431-8	5	54
261	Single lymphocyte analysis with a microwell array chip. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2007**, 71, 1003-10	4.6	82
260	A localized surface plasmon resonance based immunosensor for the detection of casein in milk. *Science and Technology of Advanced Materials*, **2007**, 8, 331-338	7.1	112
259	Accumulation of amplified target DNAs using thiol/biotin labeling, S1 nuclease, and ferrocene□streptavidin□agnetic system and a direct detection of specific DNA signals with screen printed gold electrode. *Science and Technology of Advanced Materials*, **2007**, 8, 323-330	7.1	8
258	Single-walled carbon nanotube-arrayed microelectrode chip for electrochemical analysis. *Electrochemistry Communications*, **2007**, 9, 13-18	5.1	68
257	Electrochemical consideration on the optimum pH of bilirubin oxidase. *Analytical Biochemistry*, **2007**, 370, 98-106	3.1	28
256	An electrochemical on-field sensor system for the detection of compost maturity. *Analytica Chimica Acta*, **2007**, 581, 364-9	6.6	22
255	Gold nanoparticle-based electrochemical detection of protein phosphorylation. *Analytica Chimica Acta*, **2007**, 588, 26-33	6.6	104
254	Label-free immunosensor for prostate-specific antigen based on single-walled carbon nanotube array-modified microelectrodes. *Biosensors and Bioelectronics*, **2007**, 22, 2377-81	11.8	261
253	Label-free electrochemical detection of the phosphorylated and non-phosphorylated forms of peptides based on tyrosine oxidation. *Electrochemistry Communications*, **2007**, 9, 976-980	5.1	43
252	Label-free protein biosensor based on aptamer-modified carbon nanotube field-effect transistors. *Analytical Chemistry*, **2007**, 79, 782-7	7.8	558
251	Characterization of thermostable native alkaline phosphatase from an aerobic hyperthermophilic archaeon, Aeropyrum pernix K1. *Applied Microbiology and Biotechnology*, **2007**, 74, 107-12	5.7	9
250	Rapid and onsite BOD sensing system using luminous bacterial cells-immobilized chip. *Biosensors and Bioelectronics*, **2007**, 22, 1345-50	11.8	52

249	Development of a Functional Chromosome Nano-Dissection System Using Porous Anodic Alumina Pattern Chip and Cantilever. *Japanese Journal of Applied Physics*, **2007**, 46, 2764-2767	1.4	1
248	Excitation of localized surface plasmon resonance using a core‐shell structured nanoparticle layer substrate and its application for label-free detection of biomolecular interactions. *Journal of Physics Condensed Matter*, **2007**, 19, 215201	1.8	17
247	Polymer Size Effect on Shape and Position in DNA Trap by Electric and Hydrodynamic Force Fields. *Japanese Journal of Applied Physics*, **2007**, 46, 5358-5362	1.4	3
246	A rapid sample pretreatment protocol: improved sensitivity in the detection of a low-abundant serum biomarker for prostate cancer. *Analytical Sciences*, **2007**, 23, 1443-6	1.7	19
245	Quantum dot-based immunosensor for the detection of prostate-specific antigen using fluorescence microscopy. *Talanta*, **2007**, 71, 1494-9	6.2	90
244	Rapid and sensitive visual detection of residual pesticides in food using acetylcholinesterase-based disposable membrane chips. *Food Control*, **2007**, 18, 914-920	6.2	32
243	An Overview of Label-free Electrochemical Protein Sensors. *Sensors*, **2007**, 7, 3442-3458	3.8	130
242	Analysis of Cell Network Signal using Micro and Nano Technology. *Hyomen Kagaku*, **2007**, 28, 211-217		
241	Development of Novel AFM Probes for Chromosome Manipulation **2007**, 15-30		
240	Microchamber Array-Based Sequence-Specific DNA Detection from a Single Chromosome via Trace Volume PCR **2007**, 31-42		
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