

Yuzuru Takamura

List of Publications by Year in descending order

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204
papers

7,160
citations

53660

45
h-index

64668

79
g-index

205
all docs

205
docs citations

205
times ranked

7412
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-Free Protein Biosensor Based on Aptamer-Modified Carbon Nanotube Field-Effect Transistors. <i>Analytical Chemistry</i> , 2007, 79, 782-787.	3.2	644
2	Separation of Long DNA Molecules by Quartz Nanopillar Chips under a Direct Current Electric Field. <i>Analytical Chemistry</i> , 2004, 76, 15-22.	3.2	333
3	Label-Free Detection of Peptide Nucleic Acid~DNA Hybridization Using Localized Surface Plasmon Resonance Based Optical Biosensor. <i>Analytical Chemistry</i> , 2005, 77, 6976-6984.	3.2	311
4	Label-free immunosensor for prostate-specific antigen based on single-walled carbon nanotube array-modified microelectrodes. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2377-2381.	5.3	297
5	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, 126-135.	3.1	204
6	Nanomaterial-based electrochemical biosensors for medical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 585-592.	5.8	200
7	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, 11892-11893.	6.6	197
8	Low-voltage electroosmosis pump for stand-alone microfluidics devices. <i>Electrophoresis</i> , 2003, 24, 185-192.	1.3	147
9	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.	2.8	137
10	A novel enhancement assay for immunochromatographic test strips using gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1414-1420.	1.9	134
11	Investigating neuronal activity with planar microelectrode arrays: achievements and new perspectives. <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 131-143.	1.1	132
12	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, 1093-1100.	5.3	126
13	Aptamer~Based Label~Free Immunosensors Using Carbon Nanotube Field~Effect Transistors. <i>Electroanalysis</i> , 2009, 21, 1285-1290.	1.5	120
14	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.	2.8	118
15	Direct fabrication of catalytic metal nanoparticles onto the surface of a screen-printed carbon electrode. <i>Electrochemistry Communications</i> , 2006, 8, 1375-1380.	2.3	109
16	Quantum dot-based immunosensor for the detection of prostate-specific antigen using fluorescence microscopy. <i>Talanta</i> , 2007, 71, 1494-1499.	2.9	104
17	Electrochemical Coding of Single-Nucleotide Polymorphisms By Monobase-Modified Gold Nanoparticles. <i>Analytical Chemistry</i> , 2004, 76, 1877-1884.	3.2	101
18	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.	2.6	90

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19	Circumventing air bubbles in microfluidic systems and quantitative continuous-flow PCR applications. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 1327-1333.	1.9	88
20	Label-Free Electrochemical Immunoassay for the Detection of Human Chorionic Gonadotropin Hormone. <i>Analytical Chemistry</i> , 2006, 78, 5612-5616.	3.2	87
21	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, 1114-1121.	1.9	84
22	Dendrite growth processes of silicon and germanium from highly undercooled melts. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999, 30, 1333-1339.	1.1	78
23	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.	2.8	74
24	Label-free electrochemical detection of DNA hybridization on gold electrode. <i>Electrochemistry Communications</i> , 2003, 5, 887-891.	2.3	73
25	Cell separation by an aqueous two-phase system in a microfluidic device. <i>Analyst, The</i> , 2009, 134, 1994.	1.7	73
26	Ultrasensitive Detection of DNA Hybridization Using Carbon Nanotube Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L1558-L1560.	0.8	72
27	Electrochemical Genosensor Based on Peptide Nucleic Acid-Mediated PCR and Asymmetric PCR Techniques:Â Electrostatic Interactions with a Metal Cation. <i>Analytical Chemistry</i> , 2006, 78, 2182-2189.	3.2	72
28	Single-walled carbon nanotube-arrayed microelectrode chip for electrochemical analysis. <i>Electrochemistry Communications</i> , 2007, 9, 13-18.	2.3	72
29	Electrochemical genosensor for the rapid detection of GMO using loop-mediated isothermal amplification. <i>Analyst, The</i> , 2009, 134, 966.	1.7	71
30	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, 9424-9430.	3.2	70
31	On-chip micro-flow polystyrene bead-based immunoassay for quantitative detection of tacrolimus (FK506). <i>Analytical Biochemistry</i> , 2004, 334, 111-116.	1.1	69
32	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.	2.6	69
33	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, 6434-6439.	3.2	67
34	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, 2554-2561.	1.8	63
35	Label-free optical detection of aptamerâ€“protein interactions using gold-capped oxide nanostructures. <i>Analytical Biochemistry</i> , 2008, 379, 1-7.	1.1	61
36	Polyphenols Modulate Alzheimerâ€™s Amyloid Beta Aggregation in a Structure-Dependent Manner. <i>Nutrients</i> , 2019, 11, 756.	1.7	61

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37	DNA-Directed Attachment of Carbon Nanotubes for Enhanced Label-Free Electrochemical Detection of DNA Hybridization. <i>Electroanalysis</i> , 2004, 16, 1667-1672.	1.5	59
38	Label-Free Detection of Melittin Binding to a Membrane Using Electrochemical-Localized Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2008, 80, 1859-1864.	3.2	59
39	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.	2.6	54
40	Labelless impedance immunosensor based on polypyrrole-pyrolecarboxylic acid copolymer for hCG detection. <i>Talanta</i> , 2011, 85, 2576-2580.	2.9	51
41	Sensing Technique of Silver Nanoparticles as Labels for Immunoassay Using Liquid Electrode Plasma Atomic Emission Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 1210-1213.	3.2	51
42	Structural change at the carbon-nanotube tip by field emission. <i>Applied Physics Letters</i> , 2001, 78, 3699-3701.	1.5	48
43	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.	2.8	47
44	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.	3.8	47
45	Healthcare Chip for Checking Health Condition from Analysis of Trace Blood Collected by Painless Needle. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 3722-3727.	0.8	46
46	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, 592-597.	5.3	45
47	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.	0.8	44
48	An optimal design method for preventing air bubbles in high-temperature microfluidic devices. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 457-464.	1.9	43
49	Peptide aptamer-modified single-walled carbon nanotube-based transistors for high-performance biosensors. <i>Scientific Reports</i> , 2017, 7, 17881.	1.6	42
50	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, 153-157.	2.6	39
51	Microstructural control of NdBa ₂ Cu ₃ O _{7-x} superconducting oxide from highly undercooled melt by containerless processing. <i>Journal of Crystal Growth</i> , 1999, 200, 118-125.	0.7	38
52	Phase selection of peritectic phase in undercooled Nd-based superconducting oxides. <i>Acta Materialia</i> , 2000, 48, 3049-3057.	3.8	38
53	DNA Condensation Monitoring after Interaction with Hoechst 33258 by Atomic Force Microscopy and Fluorescence Spectroscopy. <i>Journal of Biochemistry</i> , 2004, 136, 813-823.	0.9	38
54	Electroosmosis injection of blood serum into biocompatible microcapillary chip fabricated on quartz plate. <i>Electrophoresis</i> , 2001, 22, 341-347.	1.3	37

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55	Rapid and sensitive visual detection of residual pesticides in food using acetylcholinesterase-based disposable membrane chips. <i>Food Control</i> , 2007, 18, 914-920.	2.8	37
56	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, 515-518.	0.8	34
57	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.	2.8	32
58	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.	2.0	32
59	Quantitative and rapid detection of the trichloroethylene-degrading bacterium <i>Methylocystis</i> sp. M in groundwater by real-time PCR. <i>Applied Microbiology and Biotechnology</i> , 2002, 59, 731-736.	1.7	30
60	Characteristics of liquid electrode plasma for atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1457.	1.6	30
61	pH Change of buffer solution in a microcapillary chip and its suppression. <i>Electrophoresis</i> , 2002, 23, 2860-2864.	1.3	28
62	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.	1.2	28
63	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.	0.1	28
64	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.	4.0	27
65	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.	1.9	25
66	Carbon Nanotube Amperometric Chips with Pneumatic Micropumps. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 2064-2067.	0.8	25
67	An electrochemical on-field sensor system for the detection of compost maturity. <i>Analytica Chimica Acta</i> , 2007, 581, 364-369.	2.6	24
68	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.	2.0	24
69	Detection of expressed gene in isolated single cells in microchambers by a novel hot cell-direct RT-PCR method. <i>Analyst</i> , 2012, 137, 2951.	1.7	24
70	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.	1.6	24
71	Comprehensive single-cell transcriptome analysis reveals heterogeneity in endometrioid adenocarcinoma tissues. <i>Scientific Reports</i> , 2017, 7, 14225.	1.6	23
72	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.	3.8	22

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73	DEP-On-Go for Simultaneous Sensing of Multiple Heavy Metals Pollutants in Environmental Samples. <i>Sensors</i> , 2017, 17, 45.	2.1	22
74	Containerless Solidification of Si-Ge Binary Alloy by Means of Laser Heating Electromagnetic Levitation. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L687-L690.	0.8	21
75	Resin-based micropipette tip for immunochromatographic assays in urine samples. <i>Journal of Immunological Methods</i> , 2006, 312, 54-60.	0.6	21
76	Electrochemical assay for saccharide-protein interactions using glycopolymer-modified gold nanoparticles. <i>Electrochemistry Communications</i> , 2011, 13, 830-833.	2.3	21
77	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.	1.1	21
78	Atomic emission spectrometry in liquid electrode plasma using an hourglass microchannel. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 2125-2128.	1.6	21
79	Surface modification of Bi ₂ Se ₃ /Ca ₂ SO ₄ films deposited in situ by radio frequency plasma flash evaporation with a scanning tunneling microscope. <i>Applied Physics Letters</i> , 1991, 59, 644-646.	1.5	20
80	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.	1.1	20
81	Cluster size measurement using microtrench in a thermal plasma flash evaporation process. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997, 15, 558.	1.6	19
82	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.	1.0	19
83	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.	1.7	19
84	Scanning tunneling microscopy of epitaxial YBa ₂ Cu ₃ O _{7-x} films prepared by thermal plasma flash evaporation method. <i>Journal of Applied Physics</i> , 1997, 81, 1222-1226.	1.1	18
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. <i>Bunseki Kagaku</i> , 2011, 60, 515-520.	0.1	18
86	PEP-on-DEP: A competitive peptide-based disposable electrochemical aptasensor for renin diagnostics. <i>Biosensors and Bioelectronics</i> , 2016, 84, 120-125.	5.3	18
87	Electrochemical Immunoassay Using Open Circuit Potential Detection Labeled by Platinum Nanoparticles. <i>Sensors</i> , 2018, 18, 444.	2.1	18
88	High-rate deposition of YBa ₂ Cu ₃ O _{7-x} films by hot cluster epitaxy. <i>Journal of Applied Physics</i> , 1998, 84, 5084-5088.	1.1	17
89	Microfluidic and Label-Free Multi-Immunoassays Based on Carbon Nanotube Microelectrodes. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 06FJ02.	0.8	17
90	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.	0.8	17

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91	Fabrication of new single-walled carbon nanotubes microelectrode for electrochemical sensors application. <i>Talanta</i> , 2012, 91, 88-94.	2.9	17
92	The role of radicals and clusters in thermal plasma flash evaporation processing. <i>Plasma Chemistry and Plasma Processing</i> , 1995, 16, S141-S156.	1.1	16
93	Coupled growth in the peritectic Nd-Ba-Cu-O system from highly undercooled melt. <i>Scripta Materialia</i> , 1999, 41, 1161-1167.	2.6	16
94	Quantitative Determination of Lead in Soil by Solid-Phase Extraction/Liquid Electrode Plasma Atomic Emission Spectrometry. <i>Bunseki Kagaku</i> , 2009, 58, 561-567.	0.1	16
95	Water-clock-based autonomous flow sequencing in steadily rotating centrifugal microfluidic device. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 180-183.	4.0	16
96	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.	1.0	16
97	Enzyme-Free Glucose Sensor Based on Micro-nano Dualporous Gold-Modified Screen-Printed Carbon Electrode. <i>International Journal of Electrochemical Science</i> , 2018, 13, 8633-8644.	0.5	16
98	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.	1.2	16
99	Automated Paper-Based Femtogram Sensing Device for Competitive Enzyme-Linked Immunosorbent Assay of Aflatoxin B ₁ Using Submicroliter Samples. <i>Analytical Chemistry</i> , 2022, 94, 5099-5105.	3.2	16
100	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.	1.3	15
101	Novel electrochemical identification and semi quantification of bovine constituents in feedstuffs. <i>Science and Technology of Advanced Materials</i> , 2006, 7, 263-269.	2.8	14
102	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.	0.8	14
103	A bulk sub-femtoliter in vitro compartmentalization system using super-fine electrosprays. <i>Scientific Reports</i> , 2016, 6, 26257.	1.6	14
104	Tapered microelectrode array system for dielectrophoretically filtration: fabrication, characterization, and simulation study. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2017, 16, 1.	1.0	14
105	Highly Sensitive Method for Electrochemical Detection of Silver Nanoparticle Labels in Metalloimmunoassay with Preoxidation/Reduction Signal Enhancement. <i>Electrochemistry</i> , 2010, 78, 748-753.	0.6	12
106	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.	0.8	12
107	Performance Enhancement of Inkjet Printed Multi-Walled Carbon Nanotubes Inks using Synthetic and Green Surfactants. <i>Advanced Materials Technologies</i> , 2021, 6, 2001026.	3.0	12
108	Low-Voltage Electroosmosis Pump and Its Application to on-Chip Linear Stepping Pneumatic Pressure Source. , 2001, , 230-232.		12

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109	Containerless Solidification of Peritectic and Eutectic Ceramics Using Aero-Acoustic Levitator. <i>Materials Science Forum</i> , 2000, 329-330, 173-178.	0.3	11
110	A sensitive immunochromatographic assay using gold nanoparticles for the semiquantitative detection of prostate-specific antigen in serum. <i>Nanobiotechnology</i> , 2006, 2, 79-86.	1.2	11
111	AFM picking-up manipulation of the metaphase chromosome fragment by using the tweezers-type probe. <i>Ultramicroscopy</i> , 2008, 108, 847-854.	0.8	11
112	Control of secondary flow in concentrically traveling flow on centrifugal microfluidics. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 829-837.	1.0	11
113	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.	4.0	11
114	Determination of lateral and vertical dielectrophoresis forces using tapered microelectrode array. <i>Micro and Nano Letters</i> , 2018, 13, 143-148.	0.6	11
115	Scanning tunneling microscopy operating under a plasma environment. <i>Thin Solid Films</i> , 1999, 345, 146-150.	0.8	10
116	Investigation of the possibility of geometrical electrophoresis. <i>Electrophoresis</i> , 2002, 23, 2635-2641.	1.3	10
117	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.	2.9	10
118	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.	1.3	10
119	Developing Conductive Highly Ordered Zinc Oxide Nanorods by Acetylacetonate-Assisted Growth. <i>Materials</i> , 2020, 13, 1136.	1.3	10
120	Authors' reply: Emissivity change and adiabatically solidified structure during rapid solidification in semiconductor. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999, 30, 3013-3016.	1.1	9
121	Direct Crystallization of $Y_3Fe_5O_{12}$ Garnet by Containerless Solidification Processing. <i>Materials Transactions</i> , 2001, 42, 233-237.	0.4	9
122	Nanoscale Time-Lapse AFM Imaging in Solution for DNA Aggregation. <i>Nanobiotechnology</i> , 2005, 1, 361-368.	1.2	9
123	A new design of knife-edged AFM probe for chromosome precision manipulating. <i>Sensors and Actuators A: Physical</i> , 2006, 130-131, 616-624.	2.0	9
124	Excitation Temperature Measurement in Liquid Electrode Plasma. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 096001.	0.8	9
125	Pulse-Heating Ionization for Protein On-Chip Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 7593-7597.	3.2	9
126	Implementing the concept of dielectrophoresis in glomerular filtration of human kidneys. , 2016, , .		9

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127	Synthesis of high-Tc superconductive oxide films by plasma flash evaporation. Physica C: Superconductivity and Its Applications, 1991, 190, 122-123.	0.6	8
128	High rate deposition of thick epitaxial films by thermal plasma flash evaporation. Pure and Applied Chemistry, 1998, 70, 1193-1197.	0.9	8
129	Curvature Entropy Trapping of Long DNA under Hydrodynamic Flows in Microfluidic Devices. Japanese Journal of Applied Physics, 2004, 43, 1649-1650.	0.8	8
130	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
131	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. Science and Technology of Advanced Materials, 2007, 8, 323-330.	2.8	8
132	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
133	DOCK11 and DENND2A play pivotal roles in the maintenance of hepatitis B virus in host cells. PLoS ONE, 2021, 16, e0246313.	1.1	8
134	Excitation Temperature Measurement in Liquid Electrode Plasma. Japanese Journal of Applied Physics, 2011, 50, 096001.	0.8	8
135	Molecular Detection in a Microfluidic Device by Streaming Current Measurements. Japanese Journal of Applied Physics, 2002, 41, L1275-L1277.	0.8	7
136	Development of on-chip vacuum generation by gas-liquid phase transition. Sensors and Actuators A: Physical, 2012, 176, 138-142.	2.0	7
137	Direct digital manufacturing of autonomous centrifugal microfluidic device. Japanese Journal of Applied Physics, 2016, 55, 06GN02.	0.8	7
138	Development of AC-driven liquid electrode plasma for sensitive detection of metals. Japanese Journal of Applied Physics, 2016, 55, 02BC23.	0.8	7
139	Density-gradient-assisted centrifugal microfluidics: an approach to continuous-mode particle separation. Biomedical Microdevices, 2017, 19, 24.	1.4	7
140	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
141	Wet Adhesion of Micro-patterned Interfaces for Stable Grasping of Deformable Objects. , 2020, , .		7
142	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
143	Solution-based process with thermal UV treatment for fabrication of piezoelectric PZT films for an actuator array at temperatures under 450 Å°C. Sensors and Actuators A: Physical, 2017, 267, 287-292.	2.0	6
144	A facile solution-combustion-synthetic approach enabling low-temperature PZT thin-films. APL Materials, 2020, 8, .	2.2	6

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145	Biochip Which Examines Hepatic Function by Employing Colorimetric Method. Japanese Journal of Applied Physics, 2003, 42, L342-L345.	0.8	5
146	Highly Sensitive Detection using Dual Working Electrode and Concentration Process in Electrochemical Metalloimmunoassay. Electrochimica Acta, 2015, 174, 799-805.	2.6	5
147	Gold Nanoparticle-labeled Electrochemical Immunoassay Using Open Circuit Potential for Human Chorionic Gonadotropin Detection. Electroanalysis, 2018, 30, 1774-1780.	1.5	5
148	A Simple and Efficient Microfluidic System for Reverse Chemical Synthesis ($5\text{Å}^2\text{-}3\text{Å}^2$) of a Short-Chain Oligonucleotide Without Inert Atmosphere. Applied Sciences (Switzerland), 2019, 9, 1357.	1.3	5
149	High-transconductance indium oxide transistors with a lanthanum-zirconium gate oxide characteristic of an electrolyte. Journal of Applied Physics, 2020, 127, .	1.1	5
150	Development of robust isothermal RNA amplification assay for lab-free testing of RNA viruses. Scientific Reports, 2021, 11, 15997.	1.6	5
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