

# Chii-Wann Lin

## List of Publications by Year in descending order

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228  
papers

4,954  
citations

81900

39  
h-index

110387

64  
g-index

234  
all docs

234  
docs citations

234  
times ranked

6750  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Rapid Detection Methods for Foodborne Pathogens. <i>Journal of Microbiology and Biotechnology</i> , 2014, 24, 297-312.	2.1	528
2	Current Perspectives on Viable but Non-culturable State in Foodborne Pathogens. <i>Frontiers in Microbiology</i> , 2017, 8, 580.	3.5	234
3	Gold Nanoparticle-Based Colorimetric Strategies for Chemical and Biological Sensing Applications. <i>Nanomaterials</i> , 2019, 9, 861.	4.1	214
4	High-Sensitivity Detection of Carbohydrate Antigen 15-3 Using a Gold/Zinc Oxide Thin Film Surface Plasmon Resonance-Based Biosensor. <i>Analytical Chemistry</i> , 2010, 82, 1207-1212.	6.5	145
5	Electrode modified with a composite film of ZnO nanorods and Ag nanoparticles as a sensor for hydrogen peroxide. <i>Talanta</i> , 2010, 82, 340-347.	5.5	138
6	Sympathetic Nerve Sprouting, Electrical Remodeling, and Increased Vulnerability to Ventricular Fibrillation in Hypercholesterolemic Rabbits. <i>Circulation Research</i> , 2003, 92, 1145-1152.	4.5	123
7	Diagnostic Devices for Isothermal Nucleic Acid Amplification. <i>Sensors</i> , 2012, 12, 8319-8337.	3.8	117
8	Viable but non-culturable state and toxin gene expression of enterohemorrhagic <i>Escherichia coli</i> O157 under cryopreservation. <i>Research in Microbiology</i> , 2017, 168, 188-193.	2.1	110
9	Fabrication of NO <sub>x</sub> gas sensors using In <sub>2</sub> O <sub>3</sub> â€“ZnO composite films. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 28-34.	7.8	100
10	Aptamer-based colorimetric detection of proteins using a branched DNA cascade amplification strategy and unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016, 78, 200-205.	10.1	92
11	Aptamer-based colorimetric detection of platelet-derived growth factor using unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 42, 119-123.	10.1	85
12	Design and fabrication of an alternating dielectric multi-layer device for surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 169-176.	7.8	78
13	A polycarbonate based surface plasmon resonance sensing cartridge for high sensitivity HBV loop-mediated isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2012, 32, 89-95.	10.1	76
14	Surface plasmon effects on two photon luminescence of gold nanorods. <i>Optics Express</i> , 2009, 17, 11350.	3.4	75
15	Electrical properties of single and multiple poly(3,4-ethylenedioxythiophene) nanowires for sensing nitric oxide gas. <i>Analytica Chimica Acta</i> , 2009, 640, 68-74.	5.4	74
16	Wogonin Improves Histological and Functional Outcomes, and Reduces Activation of TLR4/NF- $\kappa$ B Signaling after Experimental Traumatic Brain Injury. <i>PLoS ONE</i> , 2012, 7, e30294.	2.5	72
17	The Soreness and Numbness Effect of Acupuncture on Skin Blood Flow. <i>The American Journal of Chinese Medicine</i> , 2004, 32, 117-129.	3.8	64
18	Emission Characteristics of Organic Light-Emitting Diodes and Organic Thin-Films with Planar and Corrugated Structures. <i>International Journal of Molecular Sciences</i> , 2010, 11, 1527-1545.	4.1	63

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19	Amplified surface plasmon resonance immunosensor for interferon-Gamma based on a streptavidin-incorporated aptamer. <i>Biosensors and Bioelectronics</i> , 2012, 37, 68-74.	10.1	60
20	Development of an Au/ZnO thin film surface plasmon resonance-based biosensor immunoassay for the detection of carbohydrate antigen 15 in human saliva. <i>Clinical Biochemistry</i> , 2012, 45, 1689-1693.	1.9	58
21	Improving biocompatibility by surface modification techniques on implantable bioelectronics. <i>Biosensors and Bioelectronics</i> , 2013, 47, 451-460.	10.1	58
22	Prediction of burn healing time using artificial neural networks and reflectance spectrometer. <i>Burns</i> , 2005, 31, 415-420.	1.9	57
23	Effect of polymyxin resistance ( pmr ) on biofilm formation of <i>Cronobacter sakazakii</i> . <i>Microbial Pathogenesis</i> , 2017, 106, 16-19.	2.9	55
24	An amplified surface plasmon resonance "turn-on" sensor for mercury ion using gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2011, 30, 235-240.	10.1	54
25	Compact optical diagnostic device for isothermal nucleic acids amplification. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 493-501.	7.8	53
26	Colorimetric detection of human chorionic gonadotropin using catalytic gold nanoparticles and a peptide aptamer. <i>Chemical Communications</i> , 2014, 50, 14443-14446.	4.1	53
27	A miniaturized germanium-doped silicon dioxide-based surface plasmon resonance waveguide sensor for immunoassay detection. <i>Biosensors and Bioelectronics</i> , 2006, 22, 519-525.	10.1	51
28	Nonfouling Property of Zwitterionic Cysteine Surface. <i>Langmuir</i> , 2014, 30, 6497-6507.	3.5	50
29	Preparation of EVAL membranes with smooth and particulate morphologies for neuronal culture. <i>Biomaterials</i> , 2001, 22, 1771-1777.	11.4	47
30	Admittance loci design method for multilayer surface plasmon resonance devices. <i>Sensors and Actuators B: Chemical</i> , 2006, 117, 219-229.	7.8	47
31	Optical fiber sensor based on surface plasmon resonance for rapid detection of avian influenza virus subtype H6: Initial studies. <i>Journal of Virological Methods</i> , 2016, 233, 15-22.	2.1	47
32	Evaluation of the Effect of Laser Acupuncture and Cupping with Ryodoraku and Visual Analog Scale on Low Back Pain. <i>Evidence-based Complementary and Alternative Medicine</i> , 2012, 2012, 1-7.	1.2	44
33	Identification and expression of the Na <sup>+</sup> /H <sup>+</sup> exchanger in mammalian cerebrovascular and choroidal tissues: characterization by amiloride-sensitive [ <sup>3</sup> H]MIA binding and RT-PCR analysis. <i>Molecular Brain Research</i> , 1998, 58, 178-187.	2.3	43
34	Using a TiO <sub>2</sub> /ZnO double-layer film for improving the sensing performance of ZnO based NO gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 361-367.	7.8	43
35	Enhancement and tunability of active plasmonic by multilayer grating coupled emission. <i>Optics Express</i> , 2007, 15, 11608.	3.4	42
36	Simulation of surface plasmon resonance of Au <sub>x</sub> WO <sub>3</sub> and Ag <sub>x</sub> WO <sub>3</sub> nanocomposite films. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 502-509.	7.8	41

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37	Surface Plasmon Resonance of SnO <sub>2</sub> /Au Bi-layer Films for Gas Sensing Applications. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 832-838.	7.8	41
38	Changes in energy metabolites, cGMP and intracellular pH during cortical spreading depression. <i>Brain Research</i> , 1994, 641, 176-180.	2.2	40
39	Surface ultrastructure of SARS coronavirus revealed by atomic force microscopy. <i>Cellular Microbiology</i> , 2005, 7, 1763-1770.	2.1	40
40	Enhanced luminescence of organic/metal nanostructure for grating coupler active long-range surface plasmonic device. <i>Applied Physics Letters</i> , 2007, 91, 083114.	3.3	40
41	Efficient, specific, compact hepatitis B diagnostic device: Optical detection of the hepatitis B virus by isothermal amplification. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 598-605.	7.8	39
42	Pain Control on Demand Based on Pulsed Radio-Frequency Stimulation of the Dorsal Root Ganglion Using a Batteryless Implantable CMOS SoC. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2010, 4, 350-359.	4.0	39
43	Rapid identification of Mycobacterium tuberculosis infection by a new array format-based surface plasmon resonance method. <i>Nanoscale Research Letters</i> , 2012, 7, 180.	5.7	39
44	Disposable surface plasmon resonance aptasensor with membrane-based sample handling design for quantitative interferon-gamma detection. <i>Lab on A Chip</i> , 2014, 14, 2968-2977.	6.0	38
45	DNA base-stacking assay utilizing catalytic hairpin assembly-induced gold nanoparticle aggregation for colorimetric protein sensing. <i>Chemical Communications</i> , 2016, 52, 4167-4170.	4.1	37
46	Gamma Knife Radiosurgery for Central Neurocytoma: Retrospective Analysis of Fourteen Cases with a Median Follow-Up Period of Sixty-Five Months. <i>Stereotactic and Functional Neurosurgery</i> , 2011, 89, 185-193.	1.5	36
47	Pulsed radiofrequency inhibited activation of spinal mitogen-activated protein kinases and ameliorated early neuropathic pain in rats. <i>European Journal of Pain</i> , 2014, 18, 659-670.	2.8	36
48	Intracellular pH in rat brain in vivo and in brain slices. <i>Canadian Journal of Physiology and Pharmacology</i> , 1992, 70, S269-S277.	1.4	34
49	Distribution of intracellular pH in the rat brain cortex after global ischemia as measured by color film histophotometry of neutral red. <i>Brain Research</i> , 1992, 573, 1-7.	2.2	34
50	Fabrication of a molecularly imprinted polymer sensor by self-assembling monolayer/mediator system. <i>Analytica Chimica Acta</i> , 2009, 643, 38-44.	5.4	34
51	Bio-Plasmonics: Nano/micro Structure of Surface Plasmon Resonance Devices for Biomedicine. <i>Optical and Quantum Electronics</i> , 2005, 37, 1423-1437.	3.3	31
52	Micro-viscometer based on electrowetting on dielectric. <i>Electrochimica Acta</i> , 2007, 52, 2876-2883.	5.2	31
53	Surface plasmon resonance detection of silver ions and cysteine using DNA intercalator-based amplification. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2827-2835.	3.7	31
54	Partial least-squares algorithm for weights initialization of backpropagation network. <i>Neurocomputing</i> , 2003, 50, 237-247.	5.9	30

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55	Interactions between bacterial surface and nanoparticles govern the performance of "chemical nose" biosensors. <i>Biosensors and Bioelectronics</i> , 2016, 83, 115-125.	10.1	30
56	Rapid recovery of rat brain intracellular pH after cardiac arrest and resuscitation. <i>Brain Research</i> , 1995, 687, 175-181.	2.2	28
57	Directional photoluminescence enhancement of organic emitters via surface plasmon coupling. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	28
58	DNA biosensor combining single-wavelength colorimetry and a digital lock-in amplifier within a smartphone. <i>Lab on A Chip</i> , 2016, 16, 4527-4533.	6.0	26
59	A parallel algorithm for estimating the secondary structure in ribonucleic acids. <i>Biological Cybernetics</i> , 1990, 63, 337-340.	1.3	23
60	Clinical Application of Surface Plasmon Resonance-Based Biosensors for Fetal Fibronectin Detection. <i>Sensors</i> , 2012, 12, 3879-3890.	3.8	23
61	Soft Stethoscope for Detecting Asthma Wheeze in Young Children. <i>Sensors</i> , 2013, 13, 7399-7413.	3.8	23
62	Label-free colorimetric aptasensor for IgE using DNA pseudoknot probe. <i>Analyst, The</i> , 2014, 139, 3347-3351.	3.5	23
63	The amiloride-sensitive Na <sup>+</sup> /H <sup>+</sup> exchange antiporter and control of intracellular pH in hippocampal brain slices. <i>Brain Research</i> , 1996, 731, 108-113.	2.2	22
64	Ultrasonic Tissue Characterization for Coronary Care Unit Patients with Acute Myocardial Infarction. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 187-196.	1.5	22
65	Roles of Thapsigargin-Sensitive Ca <sup>2+</sup> Stores in the Survival of Developing Cultured Neurons. <i>Journal of Neurochemistry</i> , 2002, 73, 457-465.	3.9	22
66	Apocynin alleviated hepatic oxidative burden and reduced liver injury in hypercholesterolaemia. <i>Liver International</i> , 2007, 27, 529-537.	3.9	21
67	Improvement of the sensitivity of the surface plasmon resonance sensors based on multi-layer modulation techniques. <i>Optics Communications</i> , 2015, 335, 32-36.	2.1	21
68	Resolution improvement with dispersion manipulation and a retrieval algorithm in optical coherence tomography. <i>Applied Optics</i> , 2003, 42, 227.	2.1	20
69	Polarization gating in ultrafast-optics imaging of skeletal muscle tissues. <i>Optics Letters</i> , 2001, 26, 432.	3.3	19
70	Tensile Bond Strength of Er, Cr: YSGG Laser-irradiated Human Dentin to Composite Inlays with Two Resin Cements. <i>Dental Materials Journal</i> , 2007, 26, 746-755.	1.8	19
71	Label-free imaging of Drosophila larva by multiphoton autofluorescence and second harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2008, 13, 050502.	2.6	19
72	Facile colorimetric detection of human chorionic gonadotropin based on the peptide-induced aggregation of gold nanoparticles. <i>Analytical Methods</i> , 2015, 7, 29-33.	2.7	19

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73	Clinical Effects of Laser Acupuncture plus Chinese Cupping on the Pain and Plasma Cortisol Levels in Patients with Chronic Nonspecific Lower Back Pain: A Randomized Controlled Trial. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-7.	1.2	19
74	Dependence of Transport Rate on Area of Lithography and Pretreatment of Tip in Dip-Pen Nanolithography. Langmuir, 2012, 28, 14509-14513.	3.5	18
75	Low-Fouling Characteristics of Ultrathin Zwitterionic Cysteine SAMs. Langmuir, 2019, 35, 1756-1767.	3.5	18
76	Density-dependent optical response of gold nanoparticle monolayers on silicon substrates. Optics Letters, 2007, 32, 2128.	3.3	17
77	Rapid Detection of Food-Borne Escherichia coli O157:H7 with Visual Inspection by Crossing Priming Amplification (CPA). Food Analytical Methods, 2020, 13, 474-481.	2.6	16
78	The Physiological Effect of DE QI during Acupuncture. Journal of Health Science, 2004, 50, 336-342.	0.9	15
79	Surface plasmon resonance sensors using silica-on-silicon optical waveguides. Microwave and Optical Technology Letters, 2006, 48, 955-957.	1.4	15
80	A novel lab-on-a-chip design by sequential capillary "gravitational valves for urinary creatinine detection. Sensors and Actuators B: Chemical, 2016, 222, 721-727.	7.8	14
81	Pain control on demand based on pulsed radio-frequency stimulation of the dorsal root ganglion using a batteryless implantable CMOS SoC. , 2010, , .		13
82	Enhancing the Detection of Dysmorphic Red Blood Cells and Renal Tubular Epithelial Cells with a Modified Urinalysis Protocol. Scientific Reports, 2017, 7, 40521.	3.3	13
83	Hybridization Chain Reactions Targeting the Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). International Journal of Molecular Sciences, 2020, 21, 3216.	4.1	13
84	Rapid and Delayed Effects of Pulsed Radiofrequency on Neuropathic Pain: Electrophysiological, Molecular, and Behavioral Evidence Supporting Long-Term Depression. Pain Physician, 2017, 20, E269-E283.	0.4	13
85	Dynamic response of glucagon/anti-glucagon pairs to pulling velocity and pH studied by atomic force microscopy. Biosensors and Bioelectronics, 2007, 22, 1013-1019.	10.1	12
86	Surface plasmon resonance response of Au "WO <sub>3</sub> " composite films. Applied Physics A: Materials Science and Processing, 2009, 97, 489-496.	2.3	12
87	Comparison of a Novel Computerized Analysis Program and Visual Interpretation of Cardiocography. PLoS ONE, 2014, 9, e112296.	2.5	12
88	Modified maternal ECG cancellation for portable fetal heart rate monitor. Biomedical Signal Processing and Control, 2017, 32, 76-81.	5.7	12
89	Quantitative measurement of two-component pH-sensitive colorimetric spectra using multilayer neural networks. Biological Cybernetics, 1992, 67, 303-308.	1.3	11
90	Reversion of gold nanoparticle aggregates for the detection of Cu <sup>2+</sup> and its application in immunoassays. Analyst, The, 2017, 142, 4684-4690.	3.5	11

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91	A Comparison Between Pulsed Radiofrequency and Electro-acupuncture for Relieving Pain in Patients with Chronic Low Back Pain. <i>Acupuncture and Electro-Therapeutics Research</i> , 2010, 35, 133-146.	0.2	11
92	Physiological Changes Associated with Neiyang Qigong. <i>Journal of Health Science</i> , 2003, 49, 278-284.	0.9	10
93	The differential method of phase space matrix for AF/VF discrimination application. <i>Medical Engineering and Physics</i> , 2010, 32, 444-453.	1.7	10
94	A REVERSIBLE OPTICAL SENSOR BASED ON CHITOSAN FILM FOR THE SELECTIVE DETECTION OF COPPER IONS. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2012, 24, 453-459.	0.6	9
95	A Dual-Mode Highly Efficient Class-E Stimulator Controlled by a Low-Q Class-E Power Amplifier Through Duty Cycle. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2013, 7, 243-255.	4.0	9
96	A novel DNA selection and direct extraction process and its application in DNA recombination. <i>Electrophoresis</i> , 2011, 32, 423-430.	2.4	8
97	Clinical application of immunomagnetic reduction for quantitative measurement of insulin-like growth factor binding protein-1 in the prediction of pregnant women with preterm premature rupture of membranes. <i>Clinica Chimica Acta</i> , 2015, 438, 337-341.	1.1	8
98	Effects of pudendal neuromodulation on bladder function in chronic spinal cord-injured rats. <i>Journal of the Formosan Medical Association</i> , 2016, 115, 703-713.	1.7	8
99	Serotonin as a possible biomarker in obstructive sleep apnea. <i>Sleep Medicine Reviews</i> , 2016, 28, 125-132.	8.5	8
100	Biosensing Amplification by Hybridization Chain Reaction on Phase-Sensitive Surface Plasmon Resonance. <i>Biosensors</i> , 2021, 11, 75.	4.7	8
101	Using Polyethylene Glycol-Modified Chitosan for Improvement of Carbohydrate Antigen 15-3 Detection on a Quartz Crystal Microbalance Biosensor. <i>Sensor Letters</i> , 2011, 9, 404-408.	0.4	8
102	A comparative study of a new cardiocography analysis program. , 2009, 2009, 2567-70.		7
103	Analysis and design of on-sensor ECG processors for realtime detection of VF, VT, and PVC. , 2010, , .		7
104	Comparative Assessment of Oriented Antibody Immobilization on Surface Plasmon Resonance Biosensing. <i>Journal of the Chinese Chemical Society</i> , 2013, 60, 1449-1456.	1.4	7
105	Organic-based plasmonic emitters for sensing applications. <i>Applied Optics</i> , 2013, 52, 1383.	1.8	7
106	Phonon-assisted transient electroluminescence in Si. <i>Applied Physics Letters</i> , 2014, 104, 261102.	3.3	7
107	Effects of pulsed-radiofrequency neuromodulation on the rat with overactive bladder. <i>Neurourology and Urodynamics</i> , 2017, 36, 1734-1741.	1.5	7
108	Rapid label-free visual detection of KRAS mutations using peptide nucleic acid and unmodified gold nanoparticles. <i>RSC Advances</i> , 2017, 7, 48554-48560.	3.6	7

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109	Surface Plasmon Resonance Biochip Based on ZnO Thin Film for Nitric Oxide Sensing. Journal of Bionanoscience, 2008, 2, 62-66.	0.4	7
110	Dry Wearable Textile Electrodes for Portable Electrical Impedance Tomography. Sensors, 2021, 21, 6789.	3.8	7
111	Optical coherence tomography using nonlinear optics in fiber for broadband source generation. Optics Communications, 2002, 212, 391-396.	2.1	6
112	Advanced Metal Nanostructure Design for Surface Plasmon Photonic Bandgap Biosensor Device. , 2006, Suppl, 6521-4.		6
113	OPTIMAL HEPATITIS B VIRUS PRIMER SEQUENCE DESIGN FOR ISOTHERMAL AMPLIFICATION. Biomedical Engineering - Applications, Basis and Communications, 2007, 19, 137-144.	0.6	6
114	AN ELLIPSO-METRIC STUDY ON THE DENSITY AND FUNCTIONALITY OF ANTIBODY LAYERS IMMOBILIZED BY A RANDOMLY COVALENT METHOD AND A PROTEIN A-ORIENTED METHOD. Biomedical Engineering - Applications, Basis and Communications, 2009, 21, 303-310.	0.6	6
115	An automatic multi-thread image segmentation embedded system for surface plasmon resonance sensor. Sensors and Actuators A: Physical, 2019, 285, 603-612.	4.1	6
116	Surface Plasmon Resonance Gas Sensors Using Au-WO <sub>3</sub> -x Nanocomposite Films. , 2008, , .		5
117	Nanopatterning on Silicon Wafers Using AFM-Based Lithography for Solar Cells. Journal of Nanoscience and Nanotechnology, 2009, 9, 1696-1700.	0.9	5
118	High efficient driving circuit for traveling wave dielectrophoretic pump. Measurement: Journal of the International Measurement Confederation, 2011, 44, 1980-1985.	5.0	5
119	Analysis and Design of On-sensor ECG Processors for Realtime Detection of Cardiac Anomalies Including VF, VT, and PVC. Journal of Signal Processing Systems, 2011, 65, 275-285.	2.1	5
120	IMMUNOMAGNETIC REDUCTION FOR FETAL FIBRONECTIN DETECTION – A NOVEL METHOD TO DETECT THE PRETERM BIOMARKER. Biomedical Engineering - Applications, Basis and Communications, 2011, 23, 273-278.	0.6	5
121	In Situ Measurement of Tissue Impedance Using an Inductive Coupling Interface Circuit. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 225-235.	4.0	5
122	A Turbidity Test Based Centrifugal Microfluidics Diagnostic System for Simultaneous Detection of HBV, HCV, and CMV. Advances in Materials Science and Engineering, 2015, 2015, 1-8.	1.8	5
123	Tip-enhanced fluorescence with radially polarized illumination for monitoring loop-mediated isothermal amplification on Hepatitis C virus cDNA. Journal of Biomedical Optics, 2015, 20, 027005.	2.6	5
124	A NEONATAL FACIAL IMAGE SCORING SYSTEM (NFISS) FOR PAIN RESPONSE STUDIES. Biomedical Engineering - Applications, Basis and Communications, 2005, 17, 79-85.	0.6	4
125	Fabrication Process of Integrated Multi-Analyte Biochip System for Implantable Application. , 2009, , .		4
126	The development and evaluation of the citizen telehealth care service system: Case study in taipei. , 2009, 2009, 6095-8.		4



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127	Electroplating of Nanostructured Pt, Ir and Pt-Ir at Room Temperature. Journal of the Electrochemical Society, 2012, 159, D518-D520.	2.9	4
128	Effects of low amplitude pulsed radiofrequency stimulation with different waveform in rats for neuropathic pain. , 2013, 2013, 3590-3.		4
129	Prototype development of digital spirometer. , 0, , .		3
130	Polarization-dependent characteristics and polarization gating in time-resolved optical imaging of skeletal muscle tissues. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 924-930.	2.9	3
131	<title>Dual-mode fiber optic SPR chemical microsensors</title>. , 2001, , .		3
132	Process Algorithms for Resolution Improvement and Contrast Enhancement in Optical Coherence Tomography. Optical Review, 2003, 10, 567-571.	2.0	3
133	An implantable integrated SIGE FM transmitter for HRV biotelemetry. , 0, , .		3
134	A Multi Parameters Wearable Telemetric System for Cardio-Pulmonary Fitness of e-Health. , 2005, 2005, 3498-501.		3
135	Surface plasmon resonance biochip based on ZnO thin film for nitric oxide sensing. , 2008, 2008, 5757-60.		3
136	Prototype Deep Brain Stimulation System with Closed-Loop Control Feedback for Modulating Bladder Functions in Traumatic Brain Injured Animals. Journal of Medical and Biological Engineering, 2018, 38, 337-349.	1.8	3
137	Multi-Layer Reflectivity Calculation Based Meta-Modeling of the Phase Mapping Function for Highly Reproducible Surface Plasmon Resonance Biosensing. Biosensors, 2021, 11, 95.	4.7	3
138	Acoustic-Field Beamforming-Based Generalized Coherence Factor for Handheld Ultrasound. Applied Sciences (Switzerland), 2022, 12, 560.	2.5	3
139	Rapid Detection of Virus Nucleic Acid via Isothermal Amplification on Plasmonic Enhanced Digitizing Biosensor. Biosensors, 2022, 12, 75.	4.7	3
140	A medical microsensors for blood glucose monitoring. , 0, , .		2
141	The implementation of partial least squares with artificial neural network architecture. , 0, , .		2
142	Partial least squares learning regression for backpropagation network. , 0, , .		2
143	An Implantable Multifunctional Needle Type Biosensor with Integrated RF Capability. , 2005, 2005, 1933-6.		2
144	Novel Designs of Herringbone Chaotic Mixers. , 2006, , .		2

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145	Design and fabrication of a diaphragm type thermo-buckled microactuators. , 2006, , .		2
146	Completely Parylene-Coated Neuroprobe for Chronic Recording. , 2007, , .		2
147	A novel microlens arrays coupler of surface plasmon resonance for biochemical applications. , 2007, , .		2
148	RECOGNITION OF VOLATILE ORGANIC COMPOUNDS UTILIZING A PORTABLE ELECTRONIC NOSE. Biomedical Engineering - Applications, Basis and Communications, 2009, 21, 427-431.	0.6	2
149	Optical Characterization of a 1-D Nanostructure by Dark-Field Microscopy and Surface Plasmon Resonance to Determine Biomolecular Interactions. IEEE Sensors Journal, 2010, 10, 712-719.	4.7	2
150	Calibration of glucose oxidase-based test strips for capillary blood measurement with oxygen saturated venous blood samples. Clinica Chimica Acta, 2013, 415, 152-157.	1.1	2
151	Detection of KRAS mutations of colorectal cancer with peptide-nucleic-acid-mediated real-time PCR clamping. Biotechnology and Biotechnological Equipment, 2016, 30, 1155-1162.	1.3	2
152	ARTIFICIAL NEURAL NETWORKS FOR ESTIMATING GLOMERULAR FILTRATION RATE BY URINARY DIPSTICK FOR TYPE 2 DIABETIC PATIENTS. Biomedical Engineering - Applications, Basis and Communications, 2016, 28, 1650016.	0.6	2
153	Reversible Spasticity Suppression and Locomotion Change After Pulsed Radiofrequency on the Dorsal Root Ganglia of Rats With Spinal Cord Injury. Neuromodulation, 2019, 22, 53-60.	0.8	2
154	Miniature isothermal amplification reactor with an integrated optical detection unit. , 2007, , 648-650.		2
155	Novel Fabrication of Full Parylene-Isolated Neuroprobes. Journal of Bionanoscience, 2009, 3, 58-60.	0.4	2
156	Rapid wheezing detection algorithm for real-time asthma diagnosis and personal health care. IFMBE Proceedings, 2009, , 264-267.	0.3	2
157	Quantitative multivariate analysis with artificial neural networks. , 0, , .		1
158	Development of micromachined electrochemical sensor and portable meter system. , 0, , .		1
159	ULTRAFAST OPTICS IMAGING BASED ON POLARIZATION-DISCRIMINATION TECHNIQUES IN FILAMENTOUS TISSUES. Biomedical Engineering - Applications, Basis and Communications, 2002, 14, 237-242.	0.6	1
160	High-resolution optical coherence tomography with fiber-induced broadband source and process algorithm for oral cancer study. , 2002, 4619, 95.		1
161	Surface Modification of Bio-MEMS Micro-device with Conducting Polymer - Studies with Rat Cardiomyocytes. , 2005, 2005, 2619-21.		1
162	Novel Biomolecular Finger Printing with an Active Dual-Band Antenna Biosensor. , 2006, , .		1

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163	Enhanced luminescence of organic/metal nanostructure with symmetric dielectric layers for long-range surface plasmon polaritons. , 2006, , .		1
164	Advanced Plasmonic Biosensing Devices and Automation Systems for Disease Diagnostic and Drug Screening Applications. , 2008, , .		1
165	EDUCATION SYSTEM INTEGRATION IN CROSS-DISCIPLINARY WITH COLLEGES "VIRTUAL BIOMEDICAL INSTRUMENT (VBI) FOR EXAMPLE. Biomedical Engineering - Applications, Basis and Communications, 2008, 20, 153-160.	0.6	1
166	ROOM-TEMPERATURE NITRIC OXIDE GAS SENSING OF PEDOT THIN FILM USING SURFACE PLASMON RESONANCE. Biomedical Engineering - Applications, Basis and Communications, 2009, 21, 395-398.	0.6	1
167	SOFT SENSORS FOR MONITORING RESPIRATORY AND HEART SOUND. Biomedical Engineering - Applications, Basis and Communications, 2009, 21, 453-456.	0.6	1
168	A Self-Contained Miniaturized PCR System using Electromagnetic Actuators. , 2009, , .		1
169	Hybrid nano plasmonics for integrated biosensor. Proceedings of SPIE, 2009, , .	0.8	1
170	INFLUENCE OF CONSTITUTION OF HYBRID FERROCENYL ALKANETHIOLS SELF-ASSEMBLED MONOLAYERS TO INTERFACIAL CHARACTERISTICS ON GOLD SURFACE. Biomedical Engineering - Applications, Basis and Communications, 2010, 22, 25-31.	0.6	1
171	Preparation of Protein Nanoarray on Silicon Surface by Atomic Force Microscopy Nanofabrication. Journal of Nanoscience and Nanotechnology, 2010, 10, 4505-4510.	0.9	1
172	Detection of tip-enhanced fluorescence from loop-mediated isothermal amplification of hepatitis B virus by two-photon microscopy. , 2011, 2011, 490-3.		1
173	An electromagnetically-driven microfluidic platform with indirect-heating thermo-pneumatic valves. Biochip Journal, 2011, 5, 97-105.	4.9	1
174	EXCITATION COUPLING OF Au/ZnO BAND-GAP ENERGY FOR ENHANCING THE PERFORMANCE OF SURFACE PLASMON RESONANCE BIOSENSOR. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1350055.	0.6	1
175	Gold nanorods as probes in two-photon fluorescence correlation spectroscopy: Emerging applications and potential artifacts. Microscopy Research and Technique, 2013, 76, 882-889.	2.2	1
176	NANOSTRUCTURED Pt-Ir NON-ENZYMATIC GLUCOSE SENSORS. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1350048.	0.6	1
177	QUANTITATIVE EVALUATION OF MULTIVARIATE ANALYSIS METHODS FOR EXCITATION-EMISSION SPECTROSCOPY. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1250027.	0.6	1
178	Chaotic phase space differential algorithm for real-time detection of ventricular arrhythmias: Application in animal model. , 2013, 2013, 2152-5.		1
179	Micro-wing and pore design in an implantable FPC-based neural stimulation probe for minimally invasive surgery. , 2014, , .		1
180	Characteristic investigation of scanning surface plasmon microscopy for nucleotide functionalized nanoarray. Optics Express, 2015, 23, 20104.	3.4	1

#	ARTICLE	IF	CITATIONS
181	Analysis of Protein Aggregation in Sub-Femtoliter Volume by Two-Photon-Based Fluorescence Correlation Spectroscopy. Journal of Bionanoscience, 2008, 2, 97-101.	0.4	1
182	Chemiresistive NO Gas Sensor Based on Zinc Oxide Nanorods. Journal of Bionanoscience, 2008, 2, 102-108.	0.4	1
183	Quantitative Multicomponent Spectral Analysis Using Neural Networks. Advances in Experimental Medicine and Biology, 1994, 345, 651-658.	1.6	0
184	Design and implementation of microsensor system. , 0, , .		0
185	Imaging of inhomogeneities in turbid media. , 1999, 3863, 191.		0
186	Optical imaging of objects in turbid medium with ultrashort pulses. , 2000, , .		0
187	Polarization-sensitive optical coherence tomography using self-phase modulation in fiber for broadband source generation. , 2001, , .		0
188	Imaging of the oral cancer tissues with optical coherence tomography using self-phase modulation in fiber for broadband source generation. , 0, , .		0
189	Polarization dependent characteristics of skeletal muscle tissues. , 0, , .		0
190	Polarization-gated imaging techniques based on time-resolved Stokes vectors for filament tissues. , 0, , .		0
191	Image quality improvement with dispersion compensation and retrieval algorithms in optical coherence tomography. , 2002, , .		0
192	Design and fabrication of array format SPR chips in microstructure monolayers detection. , 0, , .		0
193	High-resolution optical coherence tomography and its dispersion compensation. , 0, , .		0
194	Controls of spectral shape and dispersion mismatch for high-resolution optical coherence tomography. , 2003, , .		0
195	A novel biochip detection system based on lateral SPR wave propagation theory. , 0, , .		0
196	Surface plasmon resonance device with dielectric mirror for biochemical sensing. , 2004, 2004, 1972-4.		0
197	Surface plasmon resonance biochips for tuberculosis bacillus detection. , 2004, 2004, 2553-6.		0
198	Bio-plasmonics nano/micro structure of surface plasmon resonance devices for biomedicine. , 0, , .		0

#	ARTICLE	IF	CITATIONS
199	Prediction of burn healing time using artificial neural networks and reflectance spectrometer. , 0, , .		0
200	In vivo wireless biodiagnosis system for long-term bioactivity monitoring network. , 2004, 5394, 288.		0
201	Development and measurement of two-photon-base fluorescence correlation spectroscopy. , 2007, , .		0
202	Nanostructure Induced Surface Plasma Resonance of Broadband Organic Emitting Materials. , 2007, , .		0
203	Nano Fabrication of Conducting Polymers for NO Gas by Dip Pen Nanolithography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2253-6.	0.5	0
204	A hyper-step DNA computing system based on surface plasmon resonance. , 2007, , .		0
205	Extraction efficiency enhancement of an OLED using surface plasmon resonance. , 2007, , .		0
206	NO gas sensor of PEDOT: PSS nanowires by using direct patterning DPN. , 2008, 2008, 3208-11.		0
207	Fabrication of silicon dioxide nano array for bio-mimicking of molecular interactions. , 2008, , .		0
208	Label-free in vivo imaging of Drosophila melanogaster by multiphoton microscopy. Proceedings of SPIE, 2008, , .	0.8	0
209	Fabrication of NO[sub x] gas sensors using In[sub 2]O[sub 3]-ZnO composite thin Films. , 2009, , .		0
210	Light control in organic electroluminescence devices by plasmonic grating coupled emission for biochemical applications. , 2009, , .		0
211	The studies of Schottky-diode based co-plane detector for surface plasmon resonance sensing. Proceedings of SPIE, 2010, , .	0.8	0
212	An implantable bipolar spine stimulation probe with bio-inspired adhesive microtubes. , 2011, , .		0
213	A Self-Contained Portable Polymerase-Chain-Reaction System Integrated with Electromagnetic Mini-Actuators for Bi-Directional Fluid Transport. Journal of Mechanics, 2011, 27, 357-364.	1.4	0
214	Enhanced optical coupling in localized and band-gap characteristics of plasmonic nanostructure. Proceedings of SPIE, 2012, , .	0.8	0
215	Surface plasmon coupled emission in highly directional and sensitive plasmonic devices. Proceedings of SPIE, 2012, , .	0.8	0
216	Metallic tip enhanced fluorescence for DNA replication monitoring. , 2013, 2013, 488-91.		0

#	ARTICLE	IF	CITATIONS
217	Nanodots array rapidly fabricated by Dip-Pen Nanolithography with temperature and humidity control. , 2013, 2013, 492-4.		0
218	Implantable probe with split anchors via residual stress and induced cell growth with gelatin nanofibres. Micro and Nano Letters, 2014, 9, 901-905.	1.3	0
219	A non-invasive material sensing system and its integrated interface circuits. , 2017, , .		0
220	A Novel Image Analysis of Light Emitting Diode Array Biostimulation Applied on Microcirculation. , 2018, , .		0
221	Using Megavoltage Computed Tomography to Estimate Radiotherapy Dose for High-Density Metallic Implants. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	0
222	Toward Integrated Plasmonics for Biosensing. , 2007, , .		0
223	Solutions of SAT Problems Solved by a SPR-Based DNA Processor. , 2008, , .		0
224	Monitoring Biomolecular Interaction with 1-D Plasmonic Nanostructure by Using Dark Field Microscopy. IFMBE Proceedings, 2009, , 2300-2303.	0.3	0
225	A Novel Multivariate Analysis Method with Noise Reduction. IFMBE Proceedings, 2009, , 133-137.	0.3	0
226	The Development of Virtual Testing Resource for Medical Devices in Hsin-Chu Biomedical Science Park. , 2007, , 3812-3815.		0
227	The amiloride-sensitive Na <sup>+</sup> /H <sup>+</sup> exchange antiporter and control of intracellular pH in hippocampal brain slices. Brain Research, 1996, 731, 108-113.	2.2	0
228	OPTIMAL HEPATITIS B VIRUS PRIMER SEQUENCE DESIGN FOR ISOTHERMAL AMPLIFICATION. Biomedical Engineering - Applications, Basis and Communications, 2007, 19, 137.	0.6	0