

# Ching-Chou Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,714  
citations

331670

21  
h-index

276875

41  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2718  
citing authors

#	ARTICLE	IF	CITATIONS
1	The simultaneous electrochemical detection of ascorbic acid, dopamine, and uric acid using graphene/size-selected Pt nanocomposites. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3450-3455.	10.1	488
2	Oxygen Permeability of Surface-modified Poly(dimethylsiloxane) Characterized by Scanning Electrochemical Microscopy. <i>Chemistry Letters</i> , 2006, 35, 234-235.	1.3	103
3	Fabrication of miniature Clark oxygen sensor integrated with microstructure. <i>Sensors and Actuators B: Chemical</i> , 2005, 110, 342-349.	7.8	96
4	Impedance spectral studies of self-assembly of alkanethiols with different chain lengths using different immobilization strategies on Au electrodes. <i>Analytica Chimica Acta</i> , 2005, 554, 43-51.	5.4	89
5	Three-Electrode Electrochemical Detector and Platinum Film Decoupler Integrated with a Capillary Electrophoresis Microchip for Amperometric Detection. <i>Analytical Chemistry</i> , 2003, 75, 947-952.	6.5	87
6	Electrochemical evaluation of avidin-biotin interaction on self-assembled gold electrodes. <i>Electrochimica Acta</i> , 2005, 50, 3660-3666.	5.2	71
7	Enhanced Hydrophilicity and Biocompatibility of Dental Zirconia Ceramics by Oxygen Plasma Treatment. <i>Materials</i> , 2015, 8, 684-699.	2.9	66
8	A new method for detection of endotoxin on polymyxin B-immobilized gold electrodes. <i>Electrochemistry Communications</i> , 2007, 9, 1206-1211.	4.7	61
9	Mechanical properties of collagen gels derived from rats of different ages. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 1261-1275.	3.5	53
10	A Clark-type oxygen chip for in situ estimation of the respiratory activity of adhering cells. <i>Talanta</i> , 2010, 81, 228-234.	5.5	52
11	Development of an enrofloxacin immunosensor based on label-free electrochemical impedance spectroscopy. <i>Talanta</i> , 2009, 79, 62-67.	5.5	50
12	Microfluidic chip integrated with amperometric detector array for in situ estimating oxygen consumption characteristics of single bovine embryos. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 680-687.	7.8	40
13	Oxygen consumption of cell suspension in a poly(dimethylsiloxane) (PDMS) microchannel estimated by scanning electrochemical microscopy. <i>Analyst</i> , 2006, 131, 1006.	3.5	33
14	Fabrication of nanostructured copper phosphate electrodes for the detection of $\alpha$ -amino acids. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 584-591.	7.8	30
15	Deregulation of AP-1 Proteins in Collagen Gel-induced Epithelial Cell Apoptosis Mediated by Low Substratum Rigidity. <i>Journal of Biological Chemistry</i> , 2007, 282, 752-763.	3.4	28
16	A high sensitive impedimetric salbutamol immunosensor based on the gold nanostructure-deposited screen-printed carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 768, 27-33.	3.8	28
17	Title is missing!. <i>Journal of Medical and Biological Engineering</i> , 2012, 32, 163.	1.8	27
18	Vagal innervation of the gastrointestinal tract arises from dorsal motor nucleus while that of the heart largely from nucleus ambiguus in the cat. <i>Journal of the Autonomic Nervous System</i> , 1998, 70, 38-50.	1.9	26

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19	A disposable non-enzymatic histamine sensor based on the nafion-coated copper phosphate electrodes for estimation of fish freshness. <i>Electrochimica Acta</i> , 2018, 283, 772-779.	5.2	25
20	A Label-Free Electrochemical Impedimetric Immunosensor with Biotinylated-Antibody for SARS-CoV-2 Nucleoprotein Detection in Saliva. <i>Biosensors</i> , 2022, 12, 265.	4.7	24
21	An ultrasensitive label-free electrochemical impedimetric DNA biosensing chip integrated with a DC-biased AC electroosmotic vortex. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 61-68.	7.8	23
22	Effect of polydimethylsiloxane surfaces silanized with different nitrogen-containing groups on the adhesion progress of epithelial cells. <i>Surface and Coatings Technology</i> , 2011, 205, 3182-3189.	4.8	22
23	Estimating the thickness of hydrated ultrathin poly(o-phenylenediamine) film by atomic force microscopy. <i>Analytica Chimica Acta</i> , 2004, 505, 239-246.	5.4	20
24	Measurement of diffusion and partition coefficients of ferrocyanide in protein-immobilized membranes. <i>Analytica Chimica Acta</i> , 2005, 532, 209-214.	5.4	18
25	Preparation and properties of gold nanoparticle-electrodeposited titanium substrates with Arg-Gly-Asp-Cys peptides. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 1511-1519.	3.6	17
26	The open container-used microfluidic chip using IrOx ultramicroelectrodes for the in situ measurement of extracellular acidification. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4191-4197.	10.1	16
27	A label-free impedimetric DNA sensing chip integrated with AC electroosmotic stirring. <i>Biosensors and Bioelectronics</i> , 2013, 43, 348-354.	10.1	15
28	A Label-Free Impedimetric Genosensor for the Nucleic Acid Amplification-Free Detection of Extracted RNA of Dengue Virus. <i>Sensors</i> , 2020, 20, 3728.	3.8	14
29	Electroosmotic Flow Control in Microfluidic Chips Using a Self-Assembled Monolayer as the Insulator of a Flow Field-Effect Transistor. <i>Langmuir</i> , 2012, 28, 11281-11285.	3.5	13
30	Effect of Poly-L-Lysine Polycation on the Glucose Oxidase/Ferricyanide Composite-Based Second-Generation Blood Glucose Sensors. <i>Sensors</i> , 2019, 19, 1448.	3.8	12
31	A Novel Biocompatible Herbal Extract-Loaded Hydrogel for Acne Treatment and Repair. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-13.	4.0	11
32	Geometric effect of copper nanoparticles electrodeposited on screen-printed carbon electrodes on the detection of I <sup>±</sup> -, I <sup>2-</sup> - and I <sup>3-</sup> -amino acids. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 270-277.	7.8	10
33	A light-up G-quadruplex nanostring for label-free and selective detection of miRNA via duplex-specific nuclease mediated tandem rolling circle amplification. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 32, 102339.	3.3	9
34	Effect of the Chain Length of a Modified Layer and Surface Roughness of an Electrode on Impedimetric Immunosensors. <i>Analytical Sciences</i> , 2017, 33, 327-331.	1.6	6
35	Electrochemical sandwich immunoassay for quantification of therapeutic drugs based on the use of magnetic nanoparticles and silica nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2019, 849, 113381.	3.8	6
36	The depressor caudal ventrolateral medulla: Its correlation with the pressor dorsomedial and ventrolateral medulla and the depressor paramedian reticular nucleus. <i>Journal of the Autonomic Nervous System</i> , 1998, 70, 103-114.	1.9	5

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37	Label-Free Impedimetric Immunosensors Modulated by Protein A/Bovine Serum Albumin Layer for Ultrasensitive Detection of Salbutamol. <i>Sensors</i> , 2020, 20, 771.	3.8	5
38	An impedimetric bioaffinity sensing chip integrated with the long-range DC-biased AC electrokinetic centripetal vortex produced in a high conductivity solution. <i>Biomicrofluidics</i> , 2018, 12, 044102.	2.4	4
39	Ionic Liquid-Modified Copper Phosphate Electrodes for the Detection of $\hat{\pm}$ -Amino Acids in a Weakly Alkaline Solution. <i>Journal of the Electrochemical Society</i> , 2016, 163, B768-B774.	2.9	3
40	An electrooxidative technique to fast fabricate copper phosphate electrodes capable of integrating high performance liquid chromatography for the label-free detection of fish freshness. <i>Food Chemistry</i> , 2018, 269, 16-23.	8.2	3
41	A Microchip Electrophoresis Device Integrated with the Top&bottom Antiparallel Electrodes of Indium Tin Oxide to Detect Inorganic Ions by Contact Conductivity. <i>Analytical Sciences</i> , 2018, 34, 1231-1236.	1.6	2
42	Dissolved Oxygen-Sensing Chip Integrating an Open Container Connected with a Position-Raised Channel for Estimation of Cellular Mitochondrial Activity. <i>ACS Sensors</i> , 2022, 7, 1808-1818.	7.8	2
43	Study on the Cell Mechanics of MDCK Cells by Elastic Micro-pillars Arrays. , 2007, , .		1
44	On-column amperometric detection for capillary electrophoresis microchips with electric field decoupler. , 0, , .		0
45	(Invited) The Microfluidic Chip Combining a Position-Raised Channel and Ultramicroelectrodes for Fast Estimation of Cellular Respiratory Activity. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1334-1334.	0.0	0
46	Development of a Capillary Electrophoresis Chip with Integrated Electrochemical Sensors. <i>International Journal of Automation and Smart Technology</i> , 2016, 6, 203-210.	0.4	0
47	(Invited) Development of Cell-Based Microfluidic Chip for the Estimation of Cell Activity. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1993-1993.	0.0	0
48	A novel method of measuring the thickness of hydrated ultrathin polymer film by the force curve of atomic force microscopy. , 0, , .		0