

Fwu-Shan Sheu

List of Publications by Year in descending order

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75
papers

5,289
citations

81900

39
h-index

82547

72
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76
all docs

76
docs citations

76
times ranked

6762
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in carbon nanotube based electrochemical sensors for bioanalytical applications. <i>Biotechnology Advances</i> , 2011, 29, 169-188.	11.7	401
2	Nonenzymatic glucose detection using multi-walled carbon nanotube electrodes. <i>Electrochemistry Communications</i> , 2004, 6, 66-70.	4.7	310
3	Selective and sensitive electrochemical detection of glucose in neutral solution using platinum-lead alloy nanoparticle/carbon nanotube nanocomposites. <i>Analytica Chimica Acta</i> , 2007, 594, 175-183.	5.4	244
4	Delivery of drugs and biomolecules using carbon nanotubes. <i>Carbon</i> , 2011, 49, 4077-4097.	10.3	241
5	Preparation and Characterization of Aligned Carbon Nanotube-Ruthenium Oxide Nanocomposites for Supercapacitors. <i>Small</i> , 2005, 1, 560-565.	10.0	222
6	NMDA receptor blockade prevents the increase in protein kinase C substrate (protein F1) phosphorylation produced by long-term potentiation. <i>Brain Research</i> , 1988, 458, 142-146.	2.2	185
7	Electrochemical oxidation of multi-walled carbon nanotubes and its application to electrochemical double layer capacitors. <i>Electrochemistry Communications</i> , 2005, 7, 249-255.	4.7	185
8	Technology behind commercial devices for blood glucose monitoring in diabetes management: A review. <i>Analytica Chimica Acta</i> , 2011, 703, 124-136.	5.4	181
9	Pt-Pb alloy nanoparticle/carbon nanotube nanocomposite: a strong electrocatalyst for glucose oxidation. <i>Nanotechnology</i> , 2006, 17, 2334-2339.	2.6	179
10	Dissociation of cortical regions modulated by both working memory load and sleep deprivation and by sleep deprivation alone. <i>NeuroImage</i> , 2005, 25, 579-587.	4.2	177
11	Interfacing Carbon Nanotubes with Living Mammalian Cells and Cytotoxicity Issues. <i>Chemical Research in Toxicology</i> , 2010, 23, 1131-1147.	3.3	150
12	Selective Voltammetric Detection of Uric Acid in the Presence of Ascorbic Acid at Well-Aligned Carbon Nanotube Electrode. <i>Electroanalysis</i> , 2003, 15, 1693-1698.	2.9	148
13	Biosensing Properties of Diamond and Carbon Nanotubes. <i>Langmuir</i> , 2004, 20, 5484-5492.	3.5	137
14	Hypochlorous acid induces apoptosis of cultured cortical neurons through activation of calpains and rupture of lysosomes. <i>Journal of Neurochemistry</i> , 2006, 98, 1597-1609.	3.9	133
15	Electrocatalytic reduction of oxygen by a platinum nanoparticle/carbon nanotube composite electrode. <i>Journal of Electroanalytical Chemistry</i> , 2005, 577, 295-302.	3.8	130
16	Application of multi-walled carbon nanotubes functionalized with hemin for oxygen detection in neutral solution. <i>Journal of Electroanalytical Chemistry</i> , 2004, 562, 241-246.	3.8	112
17	Gold-Cluster Sensors Formed Electrochemically at Boron-Doped-Diamond Electrodes: Detection of Dopamine in the Presence of Ascorbic Acid and Thiols. <i>Advanced Functional Materials</i> , 2005, 15, 639-647.	14.9	110
18	Electrochemical Biosensing Platforms Using Phthalocyanine-Functionalized Carbon Nanotube Electrode. <i>Electroanalysis</i> , 2005, 17, 89-96.	2.9	109

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19	Learning selectively increases protein kinase C substrate phosphorylation in specific regions of the chick brain.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 2705-2709.	7.1	88
20	Neuron-specific protein F1GAP-43 shows substrate specificity for the beta subtype of protein kinase C. Biochemical and Biophysical Research Communications, 1990, 171, 1236-1243.	2.1	87
21	Carbon nanotube bottles for incorporation, release and enhanced cytotoxic effect of cisplatin. Carbon, 2012, 50, 1625-1634.	10.3	86
22	Phorbol ester promotes growth of synaptic plasticity. Brain Research, 1986, 378, 374-378.	2.2	81
23	Microelectrode Array Biochip: A Tool for In Vitro Drug Screening Based on the Detection of a Drug Effect on Dopamine Release from PC12 Cells. Analytical Chemistry, 2006, 78, 6347-6355.	6.5	80
24	Role of P-glycoprotein in the Intestinal Absorption of Glabridin, an Active Flavonoid from the Root of Glycyrrhiza glabra. Drug Metabolism and Disposition, 2007, 35, 539-553.	3.3	76
25	Nanostructured platinum-lipid bilayer composite as biosensor. Bioelectrochemistry, 2003, 59, 65-72.	4.6	69
26	Graphene versus Multi-Walled Carbon Nanotubes for Electrochemical Glucose Biosensing. Materials, 2013, 6, 1011-1027.	2.9	69
27	Frontal cortical $\alpha 7$ and $\alpha 4\beta 2$ nicotinic acetylcholine receptors in working and reference memory. Neuropharmacology, 2007, 52, 1641-1649.	4.1	66
28	Cell Adhesion Properties on Photochemically Functionalized Diamond. Langmuir, 2007, 23, 5615-5621.	3.5	61
29	Glial-derived S100b protein selectively inhibits recombinant $\beta 2$ protein kinase C (PKC) phosphorylation of neuron-specific protein F1/GAP43. Molecular Brain Research, 1994, 21, 62-66.	2.3	59
30	St. John's wort attenuates irinotecan-induced diarrhea via down-regulation of intestinal pro-inflammatory cytokines and inhibition of intestinal epithelial apoptosis. Toxicology and Applied Pharmacology, 2006, 216, 225-237.	2.8	59
31	New Insights into Image Processing of Cortical Blood Flow Monitors Using Laser Speckle Imaging. IEEE Transactions on Medical Imaging, 2007, 26, 833-842.	8.9	59
32	Structural Basis for the Interaction of Unstructured Neuron Specific Substrates Neuromodulin and Neurogranin with Calmodulin. Scientific Reports, 2013, 3, 1392.	3.3	57
33	Electrodeposition of Platinum Nanoparticles on Multi-Walled Carbon Nanotubes for Electrocatalytic Oxidation of Methanol. Mikrochimica Acta, 2006, 152, 267-275.	5.0	56
34	Differential Responses of Protein Kinase C Substrates (MARCKS, Neuromodulin, and Neurogranin) Phosphorylation to Calmodulin and S100. Archives of Biochemistry and Biophysics, 1995, 316, 335-342.	3.0	47
35	Nitric Oxide Modification of Rat Brain Neurogranin Affects Its Phosphorylation by Protein Kinase C and Affinity for Calmodulin. Journal of Biological Chemistry, 1996, 271, 22407-22413.	3.4	47
36	Mediatorless amperometric glucose biosensing using 3-aminopropyltriethoxysilane-functionalized graphene. Talanta, 2012, 99, 22-28.	5.5	46

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37	Direct Observation of Trapping and Release of Nitric Oxide by Glutathione and Cysteine with Electron Paramagnetic Resonance Spectroscopy. <i>Biophysical Journal</i> , 2000, 78, 1216-1226.	0.5	44
38	Imaging the development of an ischemic core following photochemically induced cortical infarction in rats using Laser Speckle Contrast Analysis (LASCA). <i>NeuroImage</i> , 2006, 29, 38-45.	4.2	44
39	Tanshinone IIB, a primary active constituent from <i>Salvia miltiorrhiza</i> , exhibits neuro-protective activity in experimentally stroked rats. <i>Neuroscience Letters</i> , 2007, 417, 261-265.	2.1	43
40	Do Mitochondria make Nitric Oxide? No?. <i>Free Radical Research</i> , 2004, 38, 591-599.	3.3	38
41	Modification of carbon nanotubes with redox hydrogel: Improvement of amperometric sensing sensitivity for redox enzymes. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1723-1729.	10.1	38
42	Selective decline in protein F1 phosphorylation in hippocampus of senescent rats. <i>Neurobiology of Aging</i> , 1988, 9, 393-398.	3.1	36
43	A Mechanistic Study on Reduced Toxicity of Irinotecan by Coadministered Thalidomide, a Tumor Necrosis Factor- α Inhibitor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 319, 82-104.	2.5	33
44	Dose-dependent phorbol ester facilitation or blockade of hippocampal long-term potentiation: relation to membrane/cytosol distribution of protein kinase C activity. <i>Brain Research</i> , 1989, 495, 205-216.	2.2	32
45	Differential Mechanisms Underlying the Modulation of Delayed-Rectifier K ⁺ Channel in Mouse Neocortical Neurons by Nitric Oxide. <i>Journal of Neurophysiology</i> , 2006, 95, 2167-2178.	1.8	32
46	Structural and Dynamic Characterization of a Neuron-Specific Protein Kinase C Substrate, Neurogranin. <i>Biochemistry</i> , 2003, 42, 5143-5150.	2.5	31
47	Rapid and simple preparation of a reagentless glucose electrochemical biosensor. <i>Analyst</i> , 2012, 137, 3800.	3.5	29
48	In situ temporal detection of dopamine exocytosis from l-dopa-incubated MN9D cells using microelectrode array-integrated biochip. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 634-641.	7.8	25
49	Protein kinase C activity and substrate (F1/GAP-43) phosphorylation in developing cat visual cortex. <i>Brain Research</i> , 1990, 524, 144-148.	2.2	23
50	Induction of Transient Ion Channel-Like Pores in a Cancer Cell by Antibiotic Peptide. <i>Journal of Biochemistry</i> , 2004, 136, 255-259.	1.7	23
51	Electrochemical functionalization of vertically aligned carbon nanotube arrays with molybdenum oxides for the development of a surface-charge-controlled sensor. <i>Nanotechnology</i> , 2006, 17, 3994-4001.	2.6	22
52	Oxidative modification of neurogranin by nitric oxide: an amperometric study. <i>Bioelectrochemistry</i> , 2000, 51, 163-173.	4.6	19
53	Carbon nanotube-based labels for highly sensitive colorimetric and aggregation-based visual detection of nucleic acids. <i>Nanotechnology</i> , 2007, 18, 455102.	2.6	18
54	Self-assembly of bilayer lipid membrane at multiwalled carbon nanotubes towards the development of photo-switched functional device. <i>Electrochemistry Communications</i> , 2005, 7, 81-86.	4.7	17

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55	Functionalization of CNTs: New Routes Towards the Development of Novel Electrochemical Sensors. <i>Current Nanoscience</i> , 2006, 2, 319-327.	1.2	15
56	Binding of Myristoylated Alanine-Rich Protein Kinase C Substrate to Phosphoinositides Attenuates the Phosphorylation by Protein Kinase C. <i>Archives of Biochemistry and Biophysics</i> , 1996, 326, 193-201.	3.0	14
57	Sulfo-N-hydroxysuccinimide interferes with bicinchoninic acid protein assay. <i>Analytical Biochemistry</i> , 2011, 417, 156-158.	2.4	14
58	Small Interfering RNA-Mediated Silencing of Cytochrome P450 3A4 Gene. <i>Drug Metabolism and Disposition</i> , 2006, 34, 1650-1657.	3.3	13
59	Vertically Aligned Antimony Nanowires as Solid-State pH Sensors. <i>ChemPhysChem</i> , 2007, 8, 57-61.	2.1	13
60	Nitric oxide enhances the capacitance of self-assembled, supported bilayer lipid membranes. <i>Electrochemistry Communications</i> , 2001, 3, 580-584.	4.7	12
61	Single-cell electroporation using proton beam fabricated biochips. <i>Biomedical Microdevices</i> , 2012, 14, 533-540.	2.8	12
62	Characterization of transcriptional regulation of neurogranin by nitric oxide and the role of neurogranin in SNP-induced cell death: implication of neurogranin in an increased neuronal susceptibility to oxidative stress. <i>International Journal of Biological Sciences</i> , 2007, 3, 212-224.	6.4	12
63	Quantitative analysis of zinc in rat hippocampal mossy fibers by nuclear microscopy. <i>Neuroscience Research</i> , 2012, 74, 17-24.	1.9	11
64	Advances in Electrochemical Sensors Using Multi-walled Carbon Nanotubes. <i>Materials Technology</i> , 2004, 19, 11-12.	3.0	10
65	Involvement of the GC-rich sequence and specific proteins (Sp1/Sp3) in the basal transcription activity of neurogranin gene. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 124-132.	2.1	10
66	Electrocatalytic oxidation of methanol on a platinum modified carbon nanotube electrode. <i>Mikrochimica Acta</i> , 2008, 162, 235-243.	5.0	9
67	Proteomics Analysis of the Expression of Neurogranin in Murine Neuroblastoma (Neuro-2a) Cells Reveals Its Involvement for Cell Differentiation. <i>International Journal of Biological Sciences</i> , 2007, 3, 263-273.	6.4	8
68	Neurogranin expression in stably transfected N2A cell line affects cytosolic calcium level by nitric oxide stimulation. <i>Molecular Brain Research</i> , 2004, 129, 171-178.	2.3	7
69	Electrochemical Biochip for Drug Screening At Cellular Level. <i>Journal of Physics: Conference Series</i> , 2006, 34, 198-203.	0.4	7
70	Spatial memory training induces morphological changes detected by manganese-enhanced MRI in the hippocampal CA3 mossy fiber terminal zone. <i>NeuroImage</i> , 2016, 128, 227-237.	4.2	7
71	Preparation of Protein Kinase C Isozymes and Substrates from Rat Brain. <i>Methods in Neurosciences</i> , 1993, 18, 127-137.	0.5	7
72	UNUSUAL ELECTROCHEMICAL RESPONSE OF ELECTROCHEMICAL ETCHING ON MULTIWALLED CARBON NANOTUBES. <i>Nano</i> , 2008, 03, 461-467.	1.0	4

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73	Effect of 3-Aminopropyltriethoxysilane on the Electrocatalysis of Carbon Nanotubes for Reagentless Glucose Biosensing. <i>Journal of Nanopharmaceutics and Drug Delivery</i> , 2013, 1, 64-73.	0.3	3
74	Characterization and Field Emission Performance of Electrochemically Synthesized FeOOH Nanowalls. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3301-3306.	0.9	2
75	An electrochemical approach tunes the electric property of benzoylferrocene-modified supported lipid membrane. <i>Electrochemistry Communications</i> , 2008, 10, 1490-1493.	4.7	1