Fwu-Shan Sheu

List of Publications by Year
in descending order

75 papers	5,289 citations	81900 39 h-index	82547 72 g-index
76 all docs	76 docs citations	76 times ranked	6762 citing authors

#	Article	IF	Citations
1	Spatial memory training induces morphological changes detected by manganese-enhanced MRI in the hippocampal CA3 mossy fiber terminal zone. NeuroImage, 2016, 128, 227-237.	4.2	7
2	Structural Basis for the Interaction of Unstructured Neuron Specific Substrates Neuromodulin and Neurogranin with Calmodulin. Scientific Reports, 2013, 3, 1392.	3.3	57
3	Graphene versus Multi-Walled Carbon Nanotubes for Electrochemical Glucose Biosensing. Materials, 2013, 6, 1011-1027.	2.9	69
4	Effect of 3-Aminopropyltriethoxysilane on the Electrocatalysis of Carbon Nanotubes for Reagentless Glucose Biosensing. Journal of Nanopharmaceutics and Drug Delivery, 2013, 1, 64-73.	0.3	3
5	Rapid and simple preparation of a reagentless glucose electrochemical biosensor. Analyst, The, 2012, 137, 3800.	3.5	29
6	Mediatorless amperometric glucose biosensing using 3-aminopropyltriethoxysilane-functionalized graphene. Talanta, 2012, 99, 22-28.	5.5	46
7	Quantitative analysis of zinc in rat hippocampal mossy fibers by nuclear microscopy. Neuroscience Research, 2012, 74, 17-24.	1.9	11
8	Single-cell electroporation using proton beam fabricated biochips. Biomedical Microdevices, 2012, 14, 533-540.	2.8	12
9	Carbon nanotube bottles for incorporation, release and enhanced cytotoxic effect of cisplatin. Carbon, 2012, 50, 1625-1634.	10.3	86
10	Technology behind commercial devices for blood glucose monitoring in diabetes management: A review. Analytica Chimica Acta, 2011, 703, 124-136.	5.4	181
11	Advances in carbon nanotube based electrochemical sensors for bioanalytical applications. Biotechnology Advances, 2011, 29, 169-188.	11.7	401
12	Sulfo-N-hydroxysuccinimide interferes with bicinchoninic acid protein assay. Analytical Biochemistry, 2011, 417, 156-158.	2.4	14
13	Delivery of drugs and biomolecules using carbon nanotubes. Carbon, 2011, 49, 4077-4097.	10.3	241
14	Interfacing Carbon Nanotubes with Living Mammalian Cells and Cytotoxicity Issues. Chemical Research in Toxicology, 2010, 23, 1131-1147.	3.3	150
15	Modification of carbon nanotubes with redox hydrogel: Improvement of amperometric sensing sensitivity for redox enzymes. Biosensors and Bioelectronics, 2009, 24, 1723-1729.	10.1	38
16	Electrocatalytic oxidation of methanol on a platinum modified carbon nanotube electrode. Mikrochimica Acta, 2008, 162, 235-243.	5.0	9
17	An electrochemical approach tunes the electric property of benzoylferrocene-modified supported lipid membrane. Electrochemistry Communications, 2008, 10, 1490-1493.	4.7	1
18	UNUSUAL ELECTROCHEMICAL RESPONSE OF ELECTROCHEMICAL ETCHING ON MULTIWALLED CARBON NANOTUBES. Nano, 2008, 03, 461-467.	1.0	4

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19	Role of P-glycoprotein in the Intestinal Absorption of Glabridin, an Active Flavonoid from the Root ofGlycyrrhiza glabra. Drug Metabolism and Disposition, 2007, 35, 539-553.	3.3	76
20	Carbon nanotube-based labels for highly sensitive colorimetric and aggregation-based visual detection of nucleic acids. Nanotechnology, 2007, 18, 455102.	2.6	18
21	Characterization and Field Emission Performance of Electrochemically Synthesized FeOOH Nanowalls. Journal of Nanoscience and Nanotechnology, 2007, 7, 3301-3306.	0.9	2
22	Frontal cortical Î±7 and Î±4Î²2 nicotinic acetylcholine receptors in working and reference memory. Neuropharmacology, 2007, 52, 1641-1649.	4.1	66
23	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
24	Tanshinone IIB, a primary active constituent from Salvia miltiorrhza, exhibits neuro-protective activity in experimentally stroked rats. Neuroscience Letters, 2007, 417, 261-265.	2.1	43
25	Cell Adhesion Properties on Photochemically Functionalized Diamond. Langmuir, 2007, 23, 5615-5621.	3.5	61
26	Proteomics Analysis of the Expression of Neurogranin in Murine Neuroblastoma (Neuro-2a) Cells Reveals Its Involvement for Cell Differentiation. International Journal of Biological Sciences, 2007, 3, 263-273.	6.4	8
27	Vertically Aligned Antimony Nanowires as Solid-State pH Sensors. ChemPhysChem, 2007, 8, 57-61.	2.1	13
28	Selective and sensitive electrochemical detection of glucose in neutral solution using platinumâ€“lead alloy nanoparticle/carbon nanotube nanocomposites. Analytica Chimica Acta, 2007, 594, 175-183.	5.4	244
29	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. International Journal of Biological Sciences, 2007, 3, 212-224.	6.4	12
30	Imaging the development of an ischemic core following photochemically induced cortical infarction in rats using Laser Speckle Contrast Analysis (LASCA). NeuroImage, 2006, 29, 38-45.	4.2	44
31	Microelectrode Array Biochip:Â 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
32	Ptâ€“Pb alloy nanoparticle/carbon nanotube nanocomposite: a strong electrocatalyst for glucose oxidation. Nanotechnology, 2006, 17, 2334-2339.	2.6	179
33	Involvement of the GC-rich sequence and specific proteins (Sp1/Sp3) in the basal transcription activity of neurogranin gene. Biochemical and Biophysical Research Communications, 2006, 345, 124-132.	2.1	10
34	Functionalization of CNTs: New Routes Towards the Development of Novel Electrochemical Sensors. Current Nanoscience, 2006, 2, 319-327.	1.2	15
35	Hypochlorous acid induces apoptosis of cultured cortical neurons through activation of calpains and rupture of lysosomes. Journal of Neurochemistry, 2006, 98, 1597-1609.	3.9	133
36	In situ temporal detection of dopamine exocytosis from l-dopa-incubated MN9D cells using microelectrode array-integrated biochip. Sensors and Actuators B: Chemical, 2006, 115, 634-641.	7.8	25

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37	Electrodeposition of Platinum Nanoparticles on Multi-Walled Carbon Nanotubes for Electrocatalytic Oxidation of Methanol. Mikrochimica Acta, 2006, 152, 267-275.	5.0	56
38	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
39	Differential Mechanisms Underlying the Modulation of Delayed-Rectifier K+ Channel in Mouse Neocortical Neurons by Nitric Oxide. Journal of Neurophysiology, 2006, 95, 2167-2178.	1.8	32
40	Electrochemical Biochip for Drug Screening At Cellular Level. Journal of Physics: Conference Series, 2006, 34, 198-203.	0.4	7
41	Electrochemical functionalization of vertically aligned carbon nanotube arrays with molybdenum oxides for the development of a surface-charge-controlled sensor. Nanotechnology, 2006, 17, 3994-4001.	2.6	22
42	A Mechanistic Study on Reduced Toxicity of Irinotecan by Coadministered Thalidomide, a Tumor Necrosis Factor-Î± Inhibitor. Journal of Pharmacology and Experimental Therapeutics, 2006, 319, 82-104.	2.5	33
43	Small Interfering RNA-Mediated Silencing of Cytochrome P450 3A4 Gene. Drug Metabolism and Disposition, 2006, 34, 1650-1657.	3.3	13
44	Electrocatalytic reduction of oxygen by a platinum nanoparticle/carbon nanotube composite electrode. Journal of Electroanalytical Chemistry, 2005, 577, 295-302.	3.8	130
45	Electrochemical oxidation of multi-walled carbon nanotubes and its application to electrochemical double layer capacitors. Electrochemistry Communications, 2005, 7, 249-255.	4.7	185
46	Self-assembly of bilayer lipid membrane at multiwalled carbon nanotubes towards the development of photo-switched functional device. Electrochemistry Communications, 2005, 7, 81-86.	4.7	17
47	Electrochemical Biosensing Platforms Using Phthalocyanine-Functionalized Carbon Nanotube Electrode. Electroanalysis, 2005, 17, 89-96.	2.9	109
48	Gold-Cluster Sensors Formed Electrochemically at Boron-Doped-Diamond Electrodes: Detection of Dopamine in the Presence of Ascorbic Acid and Thiols. Advanced Functional Materials, 2005, 15, 639-647.	14.9	110
49	Preparation and Characterization of Aligned Carbon Nanotube-Ruthenium Oxide Nanocomposites for Supercapacitors. Small, 2005, 1, 560-565.	10.0	222
50	Dissociation of cortical regions modulated by both working memory load and sleep deprivation and by sleep deprivation alone. NeuroImage, 2005, 25, 579-587.	4.2	177
51	Do Mitochondria make Nitric Oxide? No?. Free Radical Research, 2004, 38, 591-599.	3.3	38
52	Induction of Transient Ion Channel-Like Pores in a Cancer Cell by Antibiotic Peptide. Journal of Biochemistry, 2004, 136, 255-259.	1.7	23
53	Application of multi-walled carbon nanotubes functionalized with hemin for oxygen detection in neutral solution. Journal of Electroanalytical Chemistry, 2004, 562, 241-246.	3.8	112
54	Nonenzymatic glucose detection using multi-walled carbon nanotube electrodes. Electrochemistry Communications, 2004, 6, 66-70.	4.7	310

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55	Biosensing Properties of Diamond and Carbon Nanotubes. Langmuir, 2004, 20, 5484-5492.	3.5	137
56	Neurogranin expression in stably transfected N2A cell line affects cytosolic calcium level by nitric oxide stimulation. Molecular Brain Research, 2004, 129, 171-178.	2.3	7
57	Advances in Electrochemical Sensors Using Multi-walled Carbon Nanotubes. Materials Technology, 2004, 19, 11-12.	3.0	10
58	Selective Voltammetric Detection of Uric Acid in the Presence of Ascorbic Acid at Well-Aligned Carbon Nanotube Electrode. Electroanalysis, 2003, 15, 1693-1698.	2.9	148
59	Nanostructured platinum-lipid bilayer composite as biosensor. Bioelectrochemistry, 2003, 59, 65-72.	4.6	69
60	Structural and Dynamic Characterization of a Neuron-Specific Protein Kinase C Substrate, Neurograninâ€. Biochemistry, 2003, 42, 5143-5150.	2.5	31
61	Nitric oxide enhances the capacitance of self-assembled, supported bilayer lipid membranes. Electrochemistry Communications, 2001, 3, 580-584.	4.7	12
62	Oxidative modification of neurogranin by nitric oxide: an amperometric study. Bioelectrochemistry, 2000, 51, 163-173.	4.6	19
63	Direct Observation of Trapping and Release of Nitric Oxide by Glutathione and Cysteine with Electron Paramagnetic Resonance Spectroscopy. Biophysical Journal, 2000, 78, 1216-1226.	0.5	44
64	Binding of Myristoylated Alanine-Rich Protein Kinase C Substrate to Phosphoinositides Attenuates the Phosphorylation by Protein Kinase C. Archives of Biochemistry and Biophysics, 1996, 326, 193-201.	3.0	14
65	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
66	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
67	Glial-derived S100b protein selectively inhibits recombinant Î² protein kinase C (PKC) phosphorylation of neuron-specific protein F1/GAP43. Molecular Brain Research, 1994, 21, 62-66.	2.3	59
68	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
69	Preparation of Protein Kinase C Isozymes and Substrates from Rat Brain. Methods in Neurosciences, 1993, 18, 127-137.	0.5	7
70	Protein kinase C activity and substrate (F1/GAP-43) phosphorylation in developing cat visual cortex. Brain Research, 1990, 524, 144-148.	2.2	23
71	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
72	Dose-dependent phorbol ester facilitation or blockade of hippocampal long-term potentiation: relation to membrane/cytosol distribution of protein kinase C activity. Brain Research, 1989, 495, 205-216.	2.2	32

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73	NMDA receptor blockade prevents the increase in protein kinase C substrate (protein F1) phosphorylation produced by long-term potentiation. Brain Research, 1988, 458, 142-146.	2.2	185
74	Selective decline in protein F1 phosphorylation in hippocampus of senescent rats. Neurobiology of Aging, 1988, 9, 393-398.	3.1	36
75	Phorbol ester promotes growth of synaptic plasticity. Brain Research, 1986, 378, 374-378.	2.2	81