George S Wilson

List of Publications by Citations

51	5,137	29	56
papers	citations	h-index	g-index

56	5,488	9.1	5.53
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
51	Electrochemical biosensors: recommended definitions and classification. *Biosensors and Bioelectronics*, **2001**, 16, 121-31	11.8	975
50	Biosensors for real-time in vivo measurements. *Biosensors and Bioelectronics*, **2005**, 20, 2388-403	11.8	558
49	Recent developments in faradaic bioelectrochemistry. *Electrochimica Acta*, **2000**, 45, 2623-2645	6.7	407
48	Enzyme-based biosensors for in vivo measurements. *Chemical Reviews*, **2000**, 100, 2693-704	68.1	355
47	Design and in vitro studies of a needle-type glucose sensor for subcutaneous monitoring. *Analytical Chemistry*, **1991**, 63, 1692-6	7.8	255
46	A temporary local energy pool coupled to neuronal activity: fluctuations of extracellular lactate levels in rat brain monitored with rapid-response enzyme-based sensor. *Journal of Neurochemistry*, **1997**, 69, 1484-90	6	248
45	Direct measurement of glutamate release in the brain using a dual enzyme-based electrochemical sensor. *Brain Research*, **1994**, 659, 117-25	3.7	224
44	ELECTROCHEMICAL BIOSENSORS: RECOMMENDED DEFINITIONS AND CLASSIFICATION*. *Analytical Letters*, **2001**, 34, 635-659	2.2	171
43	Rapid changes in local extracellular rat brain glucose observed with an in vivo glucose sensor. *Journal of Neurochemistry*, **1997**, 68, 1745-52	6	152
42	Elimination of the acetaminophen interference in an implantable glucose sensor. *Analytical Chemistry*, **1994**, 66, 1183-8	7.8	144
41	In-vivo electrochemistry: what can we learn about living systems?. *Chemical Reviews*, **2008**, 108, 2462-81	68.1	143
40	Electrochemically mediated electrodeposition/electropolymerization to yield a glucose microbiosensor with improved characteristics. *Analytical Chemistry*, **2002**, 74, 368-72	7.8	113
39	Electrochemical oxidation of H2O2 on Pt and Pt + Ir electrodes in physiological buffer and its applicability to H2O2-based biosensors. *Journal of Electroanalytical Chemistry*, **1993**, 345, 253-271	4.1	110
38	Use of a subcutaneous glucose sensor to detect decreases in glucose concentration prior to observation in blood. *Analytical Chemistry*, **1996**, 68, 3822-6	7.8	101
37	Protein interactions with subcutaneously implanted biosensors. *Biomaterials*, **2006**, 27, 2587-98	15.6	99
36	Mediation of in vivo glucose sensor inflammatory response via nitric oxide release. *Journal of Biomedical Materials Research - Part A*, **2005**, 75, 755-66	5.4	83
35	Glucose microbiosensor based on alumina sol-gel matrix/electropolymerized composite membrane. *Biosensors and Bioelectronics*, **2002**, 17, 1005-13	11.8	80

34	In vitro and in vivo evaluation of oxygen effects on a glucose oxidase based implantable glucose sensor. *Analytica Chimica Acta*, **1993**, 281, 513-520	6.6	74
33	Separation and analysis of peptides and proteins. *Analytical Chemistry*, **1999**, 71, 389R-423R	7.8	72
32	Lactate as a biomarker for sleep. *Sleep*, **2012**, 35, 1209-22	1.1	60
31	Characterization of Protein Adsorption and Immunosorption Kinetics in Photoablated Polymer Microchannels. *Langmuir*, **2000**, 16, 8489-8494	4	57
30	Fundamental studies of glucose oxidase deposition on a Pt electrode. *Analytical Chemistry*, **2002**, 74, 362-7	7.8	54
29	Preparation and characterization of implantable sensors with nitric oxide release coatings. *Microchemical Journal*, **2003**, 74, 277-288	4.8	47
28	Flow injection immunoassays: A review. *Mikrochimica Acta*, **1998**, 129, 7-18	5.8	46
27	An electrochemical aptasensor for thrombin using synergetic catalysis of enzyme and porous Au@Pd core-shell nanostructures for signal amplification. *Biosensors and Bioelectronics*, **2015**, 64, 423-8	11.8	43
26	Simultaneous real-time measurement of EEG/EMG and L-glutamate in mice: A biosensor study of neuronal activity during sleep. *Journal of Electroanalytical Chemistry*, **2011**, 656, 106-113	4.1	42
25	Chemical pathways of peptide degradation. V. Ascorbic acid promotes rather than inhibits the oxidation of methionine to methionine sulfoxide in small model peptides. *Pharmaceutical Research*, **1993**, 10, 1572-9	4.5	39
24	In vivo biosensors. *FEBS Journal*, **2007**, 274, 5452-61	5.7	31
23	Electrochemical studies of porphyrin redox reactions as cytochrome models. *Bioelectrochemistry*, **1974**, 1, 172-179		29
22	Prevention of hypoglycemia using risk assessment with a continuous glucose monitoring system. *Diabetes*, **2002**, 51, 3263-73	0.9	29
21	Some considerations in spectroelectrochemical evaluation of homogeneous electron transfer involving biological molecules. *Analytical Chemistry*, **1975**, 47, 885-90	7.8	26
20	An independently addressable microbiosensor array: what are the limits of sensing element density?. *Faraday Discussions*, **2000**, 305-17; discussion 335-51	3.6	24
19	Theory of potential-step transmission chronoabsorptometry. *Analytical Chemistry*, **1973**, 45, 2370-2380	7.8	24
18	Interactions of arenes and thioethers resulting in facilitated oxidation. *Organic Letters*, **2009**, 11, 397-400	6.2	23
17	Reversibly immobilized glucose oxidase in the amperometric flow-injection determination of glucose. *Analytical Chemistry*, **1987**, 59, 2688-91	7.8	23

16	Probing the Conformation and Orientation of Adsorbed Protein Using Monoclonal Antibodies: Cytochrome c3 Films on a Mercury Electrode. *Journal of the American Chemical Society*, **1997**, 119, 5295-5301	16.4	16
15	Purified protein derivative (PPD) as an immunogen carrier elicits high antigen specificity to haptens. *Bioconjugate Chemistry*, **1999**, 10, 496-501	6.3	14
14	Electrochemistry of adsorbed cytochrome c3 on mercury, glassy carbon, and gold electrodes. *Analytical Chemistry*, **1994**, 66, 3873-3881	7.8	14
13	Anodic oxidation of m-terphenyl thio-, seleno- and telluroethers: Lowered oxidation potentials due to chalcogen□□□nteraction. *Pure and Applied Chemistry*, **2010**, 82, 555-563	2.1	10
12	Fluorescence Properties of Fluorescein, Tetramethylrhodamine and Texas Red Linked to a DNA Aptamer¶. *Photochemistry and Photobiology*, **2007**, 81, 682-690	3.6	7
11	Dendrimer FISH detection of single-copy intervals in acute promyelocytic leukemia. *Molecular and Cellular Probes*, **2006**, 20, 114-20	3.3	7
10	Fractionation of chromosome 15 with an affinity-based approach using magnetic beads. *Genomics*, **2006**, 87, 158-64	4.3	7
9	Use of monoclonal anti-enzyme antibodies for analytical purposes. *Biotechnology Progress*, **1992**, 8, 268-74	2.8	7
8	Small-volume coulometric redoxostat. *Analytical Biochemistry*, **1971**, 40, 392-400	3.1	7
7	Introduction to the Glucose Sensing Problem **2009**, 1-27		4
6	ANODIC OXIDATION OF 1,n-HALO(ALKYLTHIO)ALKANES AND 1,n-CHLORO(ALKYLSULFINYL)ALKANES. *Phosphorus, Sulfur and Silicon and the Related Elements*, **1990**, 48, 53-62	1	4
5	Neighboring □Amide Participation in Thioether Oxidation: Conformational Control. *Organic Letters*, **2016**, 18, 3522-5	6.2	4
4	Suzuki□Miyaura synthesis of m-terphenyl thioethers and their facilitated oxidation caused by through-space □S?□nteraction. *Tetrahedron*, **2016**, 72, 2527-2534	2.4	4
3	Catalytic antibodies for complex reactions: hapten design and the importance of screening for catalysis in the generation of catalytic antibodies for the NDA/CN reaction. *Applied Biochemistry and Biotechnology*, **2000**, 83, 195-206; discussion 206-8, 297-313	3.2	3
2	Biosensors for intracorporeal measurements: problems and strategies. *Biochemical Society Transactions*, **1991**, 19, 9-11	5.1	3
1	Spectroelectrochemistry of Proteins. *Electroanalysis*,	3	