George S Wilson

List of Publications by Year
in descending order

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52 papers	6,043 citations	136950 32 h-index	175258 52 g-index
56 all docs	56 docs citations	56 times ranked	5954 citing authors

#	Article	IF	Citations
1	Spectroelectrochemistry of Proteins. Electroanalysis, 2022, 34, 1834-1841.	2.9	2
2	Neighboring Ï€-Amide Participation in Thioether Oxidation: Conformational Control. Organic Letters, 2016, 18, 3522-3525.	4.6	4
3	Suzukiâ€“Miyaura synthesis of m-terphenyl thioethers and their facilitated oxidation caused by through-space Ï€â‹¯Sâ‹¯Ï€ interaction. Tetrahedron, 2016, 72, 2527-2534.	1.9	6
4	Native glucose oxidase does not undergo direct electron transfer. Biosensors and Bioelectronics, 2016, 82, vii-viii.	10.1	79
5	An electrochemical aptasensor for thrombin using synergetic catalysis of enzyme and porous Au@Pd coreâ€“shell nanostructures for signal amplification. Biosensors and Bioelectronics, 2015, 64, 423-428.	10.1	48
6	Lactate as a Biomarker for Sleep. Sleep, 2012, 35, 1209-22.	1.1	83
7	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.	3.8	50
8	Anodic oxidation of m-terphenyl thio-, seleno- and telluroethers: Lowered oxidation potentials due to chalcogenÂ·Â·Â·Ï€ interaction. Pure and Applied Chemistry, 2010, 82, 555-563.	1.9	12
9	Interactions of Arenes and Thioethers Resulting in Facilitated Oxidation. Organic Letters, 2009, 11, 397-400.	4.6	29
10	In-Vivo Electrochemistry: What Can We Learn about Living Systems?. Chemical Reviews, 2008, 108, 2462-2481.	47.7	161
11	Inâ€ƒvivo biosensors. FEBS Journal, 2007, 274, 5452-5461.	4.7	34
12	Dendrimer FISH detection of single-copy intervals in acute promyelocytic leukemia. Molecular and Cellular Probes, 2006, 20, 114-120.	2.1	7
13	Fractionation of chromosome 15 with an affinity-based approach using magnetic beads. Genomics, 2006, 87, 158-164.	2.9	7
14	Protein interactions with subcutaneously implanted biosensors. Biomaterials, 2006, 27, 2587-2598.	11.4	108
15	Mediation ofin vivo glucose sensor inflammatory response via nitric oxide release. Journal of Biomedical Materials Research - Part A, 2005, 75A, 755-766.	4.0	90
16	Biosensors for real-time in vivo measurements. Biosensors and Bioelectronics, 2005, 20, 2388-2403.	10.1	641
17	Fluorescence Properties of Fluorescein, Tetramethylrhodamine and Texas Red Linked to a DNA Aptamer^{Â¶}. Photochemistry and Photobiology, 2005, 81, 682-690.	2.5	10
18	Preparation and characterization of implantable sensors with nitric oxide release coatings. Microchemical Journal, 2003, 74, 277-288.	4.5	51

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19	Electrochemically Mediated Electrodeposition/Electropolymerization To Yield a Glucose Microbiosensor with Improved Characteristics. Analytical Chemistry, 2002, 74, 368-372.	6.5	125
20	Fundamental Studies of Glucose Oxidase Deposition on a Pt Electrode. Analytical Chemistry, 2002, 74, 362-367.	6.5	62
21	Glucose microbiosensor based on alumina solâ€“gel matrix/electropolymerized composite membrane. Biosensors and Bioelectronics, 2002, 17, 1005-1013.	10.1	88
22	Prevention of Hypoglycemia Using Risk Assessment With a Continuous Glucose Monitoring System. Diabetes, 2002, 51, 3263-3273.	0.6	33
23	ELECTROCHEMICAL BIOSENSORS: RECOMMENDED DEFINITIONS AND CLASSIFICATION*. Analytical Letters, 2001, 34, 635-659.	1.8	234
24	Electrochemical biosensors: recommended definitions and classification1International Union of Pure and Applied Chemistry: Physical Chemistry Division, Commission I.7 (Biophysical Chemistry); Analytical Chemistry Division, Commission V.5 (Electroanalytical Chemistry).1. Biosensors and Bioelectronics, 2001, 16, 121-131.	10.1	1,262
25	Recent developments in faradaic bioelectrochemistry. Electrochimica Acta, 2000, 45, 2623-2645.	5.2	455
26	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, 195-208.	2.9	4
27	Enzyme-Based Biosensors for in Vivo Measurements. Chemical Reviews, 2000, 100, 2693-2704.	47.7	388
28	An independently addressable microbiosensor array: What are the limits of sensing element density?. Faraday Discussions, 2000, 116, 305-317.	3.2	26
29	Characterization of Protein Adsorption and Immunosorption Kinetics in Photoablated Polymer Microchannels. Langmuir, 2000, 16, 8489-8494.	3.5	64
30	Purified Protein Derivative (PPD) as an Immunogen Carrier Elicits High Antigen Specificity to Haptens. Bioconjugate Chemistry, 1999, 10, 496-501.	3.6	18
31	Separation and Analysis of Peptides and Proteins. Analytical Chemistry, 1999, 71, 389-423.	6.5	84
32	Flow injection immunoassays: A review. Mikrochimica Acta, 1998, 129, 7-18.	5.0	51
33	Probing the Conformation and Orientation of Adsorbed Protein Using Monoclonal Antibodies:Â Cytochromec3Films on a Mercury Electrode. Journal of the American Chemical Society, 1997, 119, 5295-5301.	13.7	17
34	Making an imprint on blood glucose monitoring. Nature Biotechnology, 1997, 15, 322-322.	17.5	4
35	A Temporary Local Energy Pool Coupled to Neuronal Activity: Fluctuations of Extracellular Lactate Levels in Rat Brain Monitored with Rapidâ€Response Enzymeâ€Based Sensor. Journal of Neurochemistry, 1997, 69, 1484-1490.	3.9	289
36	Rapid Changes in Local Extracellular Rat Brain Glucose Observed with an In Vivo Glucose Sensor. Journal of Neurochemistry, 1997, 68, 1745-1752.	3.9	170

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37	Use of a Subcutaneous Glucose Sensor To Detect Decreases in Glucose Concentration Prior to Observation in Blood. Analytical Chemistry, 1996, 68, 3822-3826.	6.5	107
38	Direct measurement of glutamate release in the brain using a dual enzyme-based electrochemical sensor. Brain Research, 1994, 659, 117-125.	2.2	252
39	Elimination of the Acetaminophen Interference in an Implantable Glucose Sensor. Analytical Chemistry, 1994, 66, 1183-1188.	6.5	166
40	Electrochemistry of adsorbed cytochrome c3 on mercury, glassy carbon, and gold electrodes. Analytical Chemistry, 1994, 66, 3873-3881.	6.5	15
41	In vitro and in vivo evaluation of oxygen effects on a glucose oxidase based implantable glucose sensor. Analytica Chimica Acta, 1993, 281, 513-520.	5.4	86
42	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.	3.8	126
43	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, 1572-1579.	3.5	44
44	Use of monoclonal anti-enzyme antibodies for analytical purposes. Biotechnology Progress, 1992, 8, 268-274.	2.6	7
45	Design and in vitro studies of a needle-type glucose sensor for subcutaneous monitoring. Analytical Chemistry, 1991, 63, 1692-1696.	6.5	291
46	Biosensors for intracorporeal measurements: problems and strategies. Biochemical Society Transactions, 1991, 19, 9-11.	3.4	4
47	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.	1.6	6
48	Reversibly immobilized glucose oxidase in the amperometric flow-injection determination of glucose. Analytical Chemistry, 1987, 59, 2688-2691.	6.5	33
49	Spectroelectrochemical evaluation of homogeneous electron transfer involving biological molecules. Analytical Chemistry, 1975, 47, 885-890.	6.5	33
50	Electrochemical studies of porphyrin redox reactions as cytochrome models. Bioelectrochemistry, 1974, 1, 172-179.	1.0	31
51	Theory of potential-step transmission chronoabsorptometry. Analytical Chemistry, 1973, 45, 2370-2380.	6.5	32
52	Small-volume coulometric redoxostat. Analytical Biochemistry, 1971, 40, 392-400.	2.4	9