# George S Wilson

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6045781/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 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 | 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 |
| 2 | Biosensors for real-time in vivo measurements. Biosensors and Bioelectronics, 2005, 20, 2388-2403. | 10.1 | 641 |
| 3 | Recent developments in faradaic bioelectrochemistry. Electrochimica Acta, 2000, 45, 2623-2645. | 5.2 | 455 |
| 4 | Enzyme-Based Biosensors for in Vivo Measurements. Chemical Reviews, 2000, 100, 2693-2704. | 47.7 | 388 |
| 5 | Design and in vitro studies of a needle-type glucose sensor for subcutaneous monitoring. Analytical Chemistry, 1991, 63, 1692-1696. | 6.5 | 291 |
| 6 | 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 |
| 7 | Direct measurement of glutamate release in the brain using a dual enzyme-based electrochemical sensor. Brain Research, 1994, 659, 117-125. | 2.2 | 252 |
| 8 | ELECTROCHEMICAL BIOSENSORS: RECOMMENDED DEFINITIONS AND CLASSIFICATION*. Analytical Letters, 2001, 34, 635-659. | 1.8 | 234 |
| 9 | 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 |
| 10 | Elimination of the Acetaminophen Interference in an Implantable Glucose Sensor. Analytical Chemistry, 1994, 66, 1183-1188. | 6.5 | 166 |
| 11 | In-Vivo Electrochemistry: What Can We Learn about Living Systems?. Chemical Reviews, 2008, 108, 2462-2481. | 47.7 | 161 |
| 12 | 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 |
| 13 | Electrochemically Mediated Electrodeposition/Electropolymerization To Yield a Glucose Microbiosensor with Improved Characteristics. Analytical Chemistry, 2002, 74, 368-372. | 6.5 | 125 |
| 14 | Protein interactions with subcutaneously implanted biosensors. Biomaterials, 2006, 27, 2587-2598. | 11.4 | 108 |
| 15 | 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 |
| 16 | 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 |
| 17 | Glucose microbiosensor based on alumina solâ€“gel matrix/electropolymerized composite membrane. Biosensors and Bioelectronics, 2002, 17, 1005-1013. | 10.1 | 88 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Separation and Analysis of Peptides and Proteins. Analytical Chemistry, 1999, 71, 389-423. | 6.5 | 84 |
| 20 | Lactate as a Biomarker for Sleep. Sleep, 2012, 35, 1209-22. | 1.1 | 83 |
| 21 | Native glucose oxidase does not undergo direct electron transfer. Biosensors and Bioelectronics, 2016, 82, vii-viii. | 10.1 | 79 |
| 22 | Characterization of Protein Adsorption and Immunosorption Kinetics in Photoablated Polymer Microchannels. Langmuir, 2000, 16, 8489-8494. | 3.5 | 64 |
| 23 | Fundamental Studies of Glucose Oxidase Deposition on a Pt Electrode. Analytical Chemistry, 2002, 74, 362-367. | 6.5 | 62 |
| 24 | Flow injection immunoassays: A review. Mikrochimica Acta, 1998, 129, 7-18. | 5.0 | 51 |
| 25 | Preparation and characterization of implantable sensors with nitric oxide release coatings. Microchemical Journal, 2003, 74, 277-288. | 4.5 | 51 |
| 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. | 3.8 | 50 |
| 27 | 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 |
| 28 | 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 |
| 29 | Inâ€ƒvivo biosensors. FEBS Journal, 2007, 274, 5452-5461. | 4.7 | 34 |
| 30 | Spectroelectrochemical evaluation of homogeneous electron transfer involving biological molecules. Analytical Chemistry, 1975, 47, 885-890. | 6.5 | 33 |
| 31 | Reversibly immobilized glucose oxidase in the amperometric flow-injection determination of glucose. Analytical Chemistry, 1987, 59, 2688-2691. | 6.5 | 33 |
| 32 | Prevention of Hypoglycemia Using Risk Assessment With a Continuous Glucose Monitoring System. Diabetes, 2002, 51, 3263-3273. | 0.6 | 33 |
| 33 | Theory of potential-step transmission chronoabsorptometry. Analytical Chemistry, 1973, 45, 2370-2380. | 6.5 | 32 |
| 34 | Electrochemical studies of porphyrin redox reactions as cytochrome models. Bioelectrochemistry, 1974, 1, 172-179. | 1.0 | 31 |
| 35 | Interactions of Arenes and Thioethers Resulting in Facilitated Oxidation. Organic Letters, 2009, 11, 397-400. | 4.6 | 29 |
| 36 | An independently addressable microbiosensor array: What are the limits of sensing element density?. Faraday Discussions, 2000, 116, 305-317. | 3.2 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Purified Protein Derivative (PPD) as an Immunogen Carrier Elicits High Antigen Specificity to Haptens. Bioconjugate Chemistry, 1999, 10, 496-501. | 3.6 | 18 |
| 38 | 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 |
| 39 | Electrochemistry of adsorbed cytochrome c3 on mercury, glassy carbon, and gold electrodes. Analytical Chemistry, 1994, 66, 3873-3881. | 6.5 | 15 |
| 40 | 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 |
| 41 | Fluorescence Properties of Fluorescein, Tetramethylrhodamine and Texas Red Linked to a DNA Aptamer<sup>Â¶</sup>. Photochemistry and Photobiology, 2005, 81, 682-690. | 2.5 | 10 |
| 42 | Small-volume coulometric redoxostat. Analytical Biochemistry, 1971, 40, 392-400. | 2.4 | 9 |
| 43 | Use of monoclonal anti-enzyme antibodies for analytical purposes. Biotechnology Progress, 1992, 8, 268-274. | 2.6 | 7 |
| 44 | Dendrimer FISH detection of single-copy intervals in acute promyelocytic leukemia. Molecular and Cellular Probes, 2006, 20, 114-120. | 2.1 | 7 |
| 45 | Fractionation of chromosome 15 with an affinity-based approach using magnetic beads. Genomics, 2006, 87, 158-164. | 2.9 | 7 |
| 46 | 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 |
| 47 | 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 |
| 48 | Biosensors for intracorporeal measurements: problems and strategies. Biochemical Society Transactions, 1991, 19, 9-11. | 3.4 | 4 |
| 49 | Making an imprint on blood glucose monitoring. Nature Biotechnology, 1997, 15, 322-322. | 17.5 | 4 |
| 50 | 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 |
| 51 | Neighboring Ï€-Amide Participation in Thioether Oxidation: Conformational Control. Organic Letters, 2016, 18, 3522-3525. | 4.6 | 4 |
| 52 | Spectroelectrochemistry of Proteins. Electroanalysis, 2022, 34, 1834-1841. | 2.9 | 2 |