

Gregory S Mccarty

List of Publications by Year in descending order

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1567
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon-Fiber Nanoelectrodes for Real-Time Discrimination of Vesicle Cargo in the Native Cellular Environment. <i>ACS Nano</i> , 2020, 14, 2917-2926.	14.6	42
2	Interpreting Dynamic Interfacial Changes at Carbon Fiber Microelectrodes Using Electrochemical Impedance Spectroscopy. <i>Langmuir</i> , 2020, 36, 4214-4223.	3.5	11
3	Drift Subtraction for Fast-Scan Cyclic Voltammetry Using Double-Waveform Partial-Least-Squares Regression. <i>Analytical Chemistry</i> , 2019, 91, 7319-7327.	6.5	33
4	Quantitative Comparison of Enzyme Immobilization Strategies for Glucose Biosensing in Real-Time Using Fast-Scan Cyclic Voltammetry Coupled with Carbon-Fiber Microelectrodes. <i>ChemPhysChem</i> , 2018, 19, 1197-1204.	2.1	16
5	Electrochemical Selectivity Achieved Using a Double Voltammetric Waveform and Partial Least Squares Regression: Differentiating Endogenous Hydrogen Peroxide Fluctuations from Shifts in pH. <i>Analytical Chemistry</i> , 2018, 90, 1767-1776.	6.5	18
6	Carbon-Fiber Microbiosensor for Monitoring Rapid Lactate Fluctuations in Brain Tissue Using Fast-Scan Cyclic Voltammetry. <i>Analytical Chemistry</i> , 2018, 90, 12994-12999.	6.5	27
7	Reducing Data Density in Fast-Scan Cyclic Voltammetry Measurements of Dopamine Dynamics. <i>Journal of the Electrochemical Society</i> , 2018, 165, G3042-G3050.	2.9	3
8	Simultaneous Voltammetric Measurements of Glucose and Dopamine Demonstrate the Coupling of Glucose Availability with Increased Metabolic Demand in the Rat Striatum. <i>ACS Chemical Neuroscience</i> , 2017, 8, 272-280.	3.5	38
9	Background Signal as an in Situ Predictor of Dopamine Oxidation Potential: Improving Interpretation of Fast-Scan Cyclic Voltammetry Data. <i>ACS Chemical Neuroscience</i> , 2017, 8, 411-419.	3.5	24
10	Spectroelectrochemical Characterization of the Dynamic Carbon-Fiber Surface in Response to Electrochemical Conditioning. <i>Langmuir</i> , 2017, 33, 7838-7846.	3.5	19
11	Design and characterization of a microfabricated hydrogen clearance blood flow sensor. <i>Journal of Neuroscience Methods</i> , 2016, 267, 132-140.	2.5	0
12	Microfabricated Collector-Generator Electrode Sensor for Measuring Absolute pH and Oxygen Concentrations. <i>Analytical Chemistry</i> , 2015, 87, 10556-10564.	6.5	23
13	Multiple Scan Rate Voltammetry for Selective Quantification of Real-Time Enkephalin Dynamics. <i>Analytical Chemistry</i> , 2014, 86, 7806-7812.	6.5	43
14	Reducing the Sampling Rate of Biochemical Measurements Using Fast-Scan Cyclic Voltammetry for In Vivo Applications. <i>IEEE Sensors Journal</i> , 2014, 14, 2975-2980.	4.7	9
15	Microfabricated microelectrode sensor for measuring background and slowly changing dopamine concentrations. <i>Journal of Electroanalytical Chemistry</i> , 2013, 693, 28-33.	3.8	20
16	In Situ Electrode Calibration Strategy for Voltammetric Measurements In Vivo. <i>Analytical Chemistry</i> , 2013, 85, 11568-11575.	6.5	63
17	Simultaneous monitoring of dopamine concentration at spatially different brain locations in vivo. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1179-1185.	10.1	80
18	Enhancing electrochemical detection by scaling solid state nanogaps. <i>Journal of Electroanalytical Chemistry</i> , 2010, 643, 9-14.	3.8	12

#	ARTICLE	IF	CITATIONS
19	Microfabricated FSCV-compatible microelectrode array for real-time monitoring of heterogeneous dopamine release. <i>Analyst</i> , The, 2010, 135, 1556.	3.5	75
20	Characterization of Local pH Changes in Brain Using Fast-Scan Cyclic Voltammetry with Carbon Microelectrodes. <i>Analytical Chemistry</i> , 2010, 82, 9892-9900.	6.5	107
21	Using surface-enhanced Raman spectroscopy to probe for genetic markers on single-stranded DNA. <i>Journal of Biomedical Optics</i> , 2010, 15, 027014.	2.6	1
22	Specific Oxygen-Containing Functional Groups on the Carbon Surface Underlie an Enhanced Sensitivity to Dopamine at Electrochemically Pretreated Carbon Fiber Microelectrodes. <i>Langmuir</i> , 2010, 26, 9116-9122.	3.5	93
23	In situ Monitoring of Adipogenesis with Human-Adipose-Derived Stem Cells Using Surface-Enhanced Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2010, 64, 1227-1233.	2.2	21
24	Carbon Microelectrodes with a Renewable Surface. <i>Analytical Chemistry</i> , 2010, 82, 2020-2028.	6.5	194
25	Solid state nanogaps for differential measurements of molecular properties. <i>Applied Physics Letters</i> , 2009, 94, 122104.	3.3	6
26	Simultaneous Decoupled Detection of Dopamine and Oxygen Using Pyrolyzed Carbon Microarrays and Fast-Scan Cyclic Voltammetry. <i>Analytical Chemistry</i> , 2009, 81, 6258-6265.	6.5	81
27	Statistically Significant Raman Detection of Midsequence Single Nucleotide Polymorphisms. <i>Analytical Chemistry</i> , 2009, 81, 2013-2016.	6.5	12
28	Electrochemical dopamine detection: Comparing gold and carbon fiber microelectrodes using background subtracted fast scan cyclic voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2008, 614, 113-120.	3.8	109
29	Effects of Molecular Structure and Interfacial Ligation on the Precision of Cu-Bound β -Mercaptoalkanoic Acid α -Molecular Ruler-Stacks. <i>Langmuir</i> , 2007, 23, 638-648.	3.5	22
30	Monitoring the addition of molecular species to electrodes utilizing inherent electronic properties. <i>Journal of Applied Physics</i> , 2006, 99, 064701.	2.5	5
31	Molecular Lithography for Wafer-Scale Fabrication of Molecular Junctions. <i>Nano Letters</i> , 2004, 4, 1391-1394.	9.1	48
32	Formation and Manipulation of Protopolymer Chains. <i>Journal of the American Chemical Society</i> , 2004, 126, 16772-16776.	13.7	75