Greg M Swain

List of Publications by Year
in descending order

199 papers	10,644 citations	23544 58 h-index	36008 97 g-index
216 all docs	216 docs citations	216 times ranked	6736 citing authors

#	Article	IF	Citations
1	Comments from the Editorâ€inâ€Chief. Electroanalysis, 2022, 34, 1-1.	1.5	14
2	Detection of Pyocyanin with a Boronâ€doped Diamond Electrode Using Flow Injection Analysis with Amperometric Detection and Square Wave Voltammetry. Electroanalysis, 2022, 34, 1902-1912.	1.5	3
3	In vitro electrochemical measurement of serotonin release in the human jejunum mucosa using a diamond microelectrode. Analyst, The, 2022, 147, 2523-2532.	1.7	2
4	Inhibiting the Oxygen Reduction Reaction Kinetics on Carbon Fiber Epoxy Composites Through Diazonium Surface Modification-Impacts on the Galvanic Corrosion of Coupled Aluminum Alloys. Journal of the Electrochemical Society, 2022, 169, 071501.	1.3	4
5	An Electrochemical ATP Biosensor with Enzymes Entrapped within a PEDOT Film. Electroanalysis, 2021, 33, 495-505.	1.5	7
6	Charge-Induced Birefringence in a Room-Temperature Ionic Liquid. Journal of Physical Chemistry B, 2021, 125, 950-955.	1.2	10
7	Local and Long-Range Organization in Room Temperature Ionic Liquids. Langmuir, 2021, 37, 605-615.	1.6	12
8	Effect of Laser Cleaning and Hyperpassivation on the Electrochemical Behavior of AA2024-T3. Journal of the Electrochemical Society, 2021, 168, 031501.	1.3	0
9	Exhaled breath biomarker sensing. Biosensors and Bioelectronics, 2021, 182, 113193.	5.3	50
10	The electrochemical determination of isatin at nanocrystalline boron-doped diamond electrodes: Stress monitoring of animals. Sensors and Actuators B: Chemical, 2020, 306, 127592.	4.0	14
11	Temperature dependence of the heterogeneous electron-transfer rate constant for ferrocene carboxylic acid in room temperature ionic liquids at microstructurally distinct carbon electrodes. Journal of Electroanalytical Chemistry, 2020, 875, 114744.	1.9	4
12	Investigation of the Trivalent Chromium Process Conversion Coating as a Sealant for Anodized AA2024-T3. Journal of the Electrochemical Society, 2020, 167, 111504.	1.3	4
13	Effect of Surface Oxygen on the Wettability and Electrochemical Properties of Boron-Doped Nanocrystalline Diamond Electrodes in Room-Temperature Ionic Liquids. Langmuir, 2020, 36, 5717-5729.	1.6	9
14	Characterizing the Magnitude and Structure-Dependence of Free Charge Density Gradients in Room-Temperature Ionic Liquids. Langmuir, 2020, 36, 3038-3045.	1.6	17
15	Strongly Coupled Redox-Linked Conformational Switching at the Active Site of the Non-Heme Iron-Dependent Dioxygenase, TauD. Journal of Physical Chemistry B, 2019, 123, 7785-7793.	1.2	6
16	Conductive diamond: synthesis, properties, and electrochemical applications. Chemical Society Reviews, 2019, 48, 157-204.	18.7	333
17	Detection of H₂O₂ from the Reduction of Dissolved Oxygen on TCP-Coated AA2024-T3 : Impact on the Transient Formation of Cr(VI). Journal of the Electrochemical Society, 2019, 166, C3284-C3289.	1.3	11
18	Inkjet-Printed Carbon Nanotube Electrodes for Measuring Pyocyanin and Uric Acid in a Wound Fluid Simulant and Culture Media. Analytical Chemistry, 2019, 91, 8835-8844.	3.2	46

#	Article	IF	Citations
19	Evaluation of a Trivalent Chromium Process (TCP) Conversion Coating on AA2024-T3 That Requires No Surface Pretreatment. Journal of the Electrochemical Society, 2019, 166, C589-C599.	1.3	4
20	(Keynote) Use of Conducting Metal Oxides to Modulate Charge Density Gradients in Ionic Liquids. ECS Meeting Abstracts, 2019, , .	0.0	0
21	Communicationâ€"Role of Trivalent Chromium on the Anti-Corrosion Properties of a TCP Conversion Coating on Aluminum Alloy 2024-T3. Journal of the Electrochemical Society, 2018, 165, C103-C105.	1.3	14
22	Isatin Detection Using a Boron-Doped Diamond 3-in-1 Sensing Platform. Analytical Chemistry, 2018, 90, 1951-1958.	3.2	20
23	Cross comparison of TCP conversion coating performance on aluminum alloys during neutral salt-spray and thin-layer mist accelerated degradation testing. Electrochimica Acta, 2018, 282, 171-184.	2.6	15
24	Modulation of an Induced Charge Density Gradient in the Room-Temperature Ionic Liquid BMIM⁺BF₄^{â€“}. Journal of Physical Chemistry C, 2018, 122, 7361-7367.	1.5	17
25	Electrochemical Characterization of Different Variants of a Commercial Trivalent Chromium Process (TCP) Coating on Aluminum Alloy 7075-T6. Corrosion, 2018, 74, 50-65.	0.5	9
26	Analysis of Ag(I) Biocide in Water Samples Using Anodic Stripping Voltammetry with a Boron-Doped Diamond Disk Electrode. Analytical Chemistry, 2018, 90, 6477-6485.	3.2	28
27	HPLCâ"EC Analysis of Estrogenic Compounds: A Comparison of Diamond and Tetrahedral Amorphous Carbon Electrode Performance. Electroanalysis, 2018, 30, 1575-1582.	1.5	3
28	Direct and Mediated Spectro-Electrochemistry of Highly Oxidized Heme Species in Horseradish Peroxidase. ECS Meeting Abstracts, 2018, , .	0.0	0
29	Structure and chemical composition of different variants of a commercial trivalent chromium process (TCP) coating on aluminum alloy 7075-T6. Surface and Coatings Technology, 2017, 315, 150-162.	2.2	29
30	Isatin Analysis Using Flow Injection Analysis with Amperometric Detection â€“ Comparison of Tetrahedral Amorphous Carbon and Diamond Electrode Performance. Electroanalysis, 2017, 29, 2147-2154.	1.5	8
31	Anti-Corrosion Properties of a TCP Pretreatment Conversion Coating on Aluminum Alloy 2024-T3 during Moist SO₂Atmospheric Testing: Effects of Galvanic Coupling. Journal of the Electrochemical Society, 2017, 164, C135-C147.	1.3	16
32	Effect of Galvanic Current on the Physicochemical, Electrochemical and Mechanical Properties of an Aerospace Carbon Fiber Reinforced Epoxy Composite. Journal of the Electrochemical Society, 2017, 164, C881-C891.	1.3	7
33	Sexâ€related differences in small intestinal transit and serotonin dynamics in highâ€fatâ€dietâ€induced obesity in mice. Experimental Physiology, 2016, 101, 81-99.	0.9	22
34	Structure and Corrosion Performance of a Non-Chromium Process (NCP) Zr/Zn Pretreatment Conversion Coating on Aluminum Alloys. Journal of the Electrochemical Society, 2016, 163, C718-C728.	1.3	16
35	Aliphatic Polyamine Oxidation Reaction Mechanism at Boronâ€doped Microcrystalline and Ultrananocrystalline Diamond Electrodes. Electroanalysis, 2016, 28, 151-160.	1.5	8
36	Nanocarbon Electrochemistry and Electroanalysis: Current Status and Future Perspectives. Electroanalysis, 2016, 28, 27-34.	1.5	79

#	Article	IF	Citations
37	Special Issue on â€œNanocarbon Electrochemistry and Electroanalysisâ€• Electroanalysis, 2016, 28, 2-2.	1.5	0
38	Charge-Induced Long-Range Order in a Room-Temperature Ionic Liquid. Langmuir, 2016, 32, 9507-9512.	1.6	39
39	Evaluation of a nitrogen-incorporated tetrahedral amorphous carbon thin film for the detection of tryptophan and tyrosine using flow injection analysis with amperometric detection. Analyst, The, 2016, 141, 6031-6041.	1.7	18
40	Structure, Electronic Properties, and Electrochemical Behavior of a Boron-Doped Diamond/Quartz Optically Transparent Electrode. ACS Applied Materials & Interfaces, 2016, 8, 28325-28337.	4.0	44
41	Assessment of heterogeneous electronâ€transfer rate constants for soluble redox analytes at tetrahedral amorphous carbon, boronâ€doped diamond, and glassy carbon electrodes. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2087-2098.	0.8	24
42	Effects of Film Morphology and Surface Chemistry on the Direct Electrochemistry of Cytochrome c at Boron-Doped Diamond Electrodes. Electrochimica Acta, 2016, 197, 129-138.	2.6	15
43	Electrochemical detection of peroxynitrite using heminâ€“PEDOT functionalized boron-doped diamond microelectrode. Analyst, The, 2016, 141, 1796-1806.	1.7	27
44	Structure, Electronic Properties and Electrochemical Behavior of a Boron-Doped Diamond/Quartz Optically Transparent Electrode. ECS Meeting Abstracts, 2016, , .	0.0	0
45	Electrochemical and Spectroelectrochemical Determination of Stress Biomarker Isatin on Optically Transparent Boron-Doped Diamond Electrodes. ECS Meeting Abstracts, 2016, , .	0.0	0
46	Effectiveness of a TCP Conversion Coating at Inhibitiung Corrosion on AA2024-T3 during so2 Atmospheric Testing. ECS Meeting Abstracts, 2016, , .	0.0	0
47	Synthesis of Nitrogen-Doped Carbon Nanotubes Using Injection-Vertical Chemical Vapor Deposition: Effects of Synthesis Parameters on the Nitrogen Content. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	7
48	Characterization and Performance of a Zr/Ti Pretreatment Conversion Coating on AA2024-T3. Journal of the Electrochemical Society, 2015, 162, C279-C284.	1.3	37
49	Macrophage depletion lowers blood pressure and restores sympathetic nerve Î±2-adrenergic receptor function in mesenteric arteries of DOCA-salt hypertensive rats. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1186-H1197.	1.5	30
50	A Pt-free Electrocatalyst Based on Pyrolized Vinazene-Carbon Composite for Oxygen Reduction Reaction. Electrochimica Acta, 2015, 161, 305-311.	2.6	14
51	The performance of a nitrogen-containing tetrahedral amorphous carbon electrode in flow injection analysis with amperometric detection. Analytical Methods, 2015, 7, 4481-4485.	1.3	11
52	Rapid Preparation of Room Temperature Ionic Liquids with Low Water Content as Characterized with a ta-C:N Electrode. Journal of the Electrochemical Society, 2015, 162, H507-H511.	1.3	19
53	Sex Differences in Jejunal Mucosal 5â€HT (serotonin) Availability in a Dietâ€Induced Obesity (DIO) Mouse Model. FASEB Journal, 2015, 29, 848.5.	0.2	0
54	The analysis of estrogenic compounds by flow injection analysis with amperometric detection using a boron-doped diamond electrode. Talanta, 2014, 126, 12-19.	2.9	35

#	Article	IF	Citations
55	Comparative electrochemical response of estrone at glassy-carbon, nitrogen-containing tetrahedral amorphous carbon and boron-doped diamond thin-film electrodes. Journal of Electroanalytical Chemistry, 2014, 712, 207-214.	1.9	42
56	Electrochemical activation of diamond microelectrodes: implications for the in vitro measurement of serotonin in the bowel. Analyst, The, 2014, 139, 3160-3166.	1.7	33
57	Diamond electrodes: Diversity and maturity. MRS Bulletin, 2014, 39, 525-532.	1.7	106
58	Fe-N-C Electrocatalysts for Oxygen Reduction Reaction Synthesized by Using Aniline Salt and Fe 3+ /H 2 O 2 Catalytic System. Electrochimica Acta, 2014, 146, 809-818.	2.6	26
59	Voltammetric Studies of Propranolol and Hydrochlorothiazide Oxidation in Standard and Synthetic Biological Fluids Using a Nitrogen-Containing Tetrahedral Amorphous Carbon (ta-C:N) Electrode. Electrochimica Acta, 2014, 143, 398-406.	2.6	36
60	Effect of Deoxidation Pretreatment on the Corrosion Inhibition Provided by a Trivalent Chromium Process (TCP) Conversion Coating on AA2024-T3. Journal of the Electrochemical Society, 2014, 161, C246-C253.	1.3	34
61	Formation and Structure of Trivalent Chromium Process Coatings on Aluminum Alloys 6061 and 7075. Corrosion, 2013, 69, 1205-1216.	0.5	31
62	Effects of Aging Temperature and Time on the Corrosion Protection Provided by Trivalent Chromium Process Coatings on AA2024-T3. ACS Applied Materials & Interfaces, 2013, 5, 7923-7930.	4.0	45
63	Regional changes in cardiac and stellate ganglion norepinephrine transporter in DOCAâ€“salt hypertension. Autonomic Neuroscience: Basic and Clinical, 2013, 179, 99-107.	1.4	7
64	In situ pH measurement during the formation of conversion coatings on an aluminum alloy (AA2024). Analyst, The, 2013, 138, 4398.	1.7	85
65	Increased Catecholamine Secretion from Single Adrenal Chromaffin Cells in DOCA-Salt Hypertension Is Associated with Potassium Channel Dysfunction. ACS Chemical Neuroscience, 2013, 4, 1404-1413.	1.7	12
66	Heterogeneous electron-transfer rate constants for ferrocene and ferrocene carboxylic acid at boron-doped diamond electrodes in a room temperature ionic liquid. Electrochimica Acta, 2013, 94, 49-56.	2.6	34
67	Visceral hypersensitivity in female but not in male serotonin transporter knockout rats. Neurogastroenterology and Motility, 2013, 25, e373-81.	1.6	24
68	Electrochemical Characterization of Trivalent Chromium Process (TCP) Coatings on Aluminum Alloys 6061 and 7075. Journal of the Electrochemical Society, 2013, 160, C396-C401.	1.3	46
69	Corrosion Protection by Trivalent Chromium Process (TCP) Coatings On Aluminum Alloys During Atmospheric Testing. ECS Meeting Abstracts, 2013, , .	0.0	0
70	Electroanalytical Performance of Nitrogen-Containing Tetrahedral Amorphous Carbon Thin-Film Electrodes. ECS Meeting Abstracts, 2013, , .	0.0	0
71	Detection of local serotonin release and clearance in the human small intestine using amperometry. FASEB Journal, 2013, 27, 1157.7.	0.2	0
72	Transient Formation of Chromate in Trivalent Chromium Process (TCP) Coatings on AA2024 as Probed by Raman Spectroscopy. Journal of the Electrochemical Society, 2012, 159, C326-C333.	1.3	61

#	Article	IF	Citations
73	Differential serotonin transport is linked to the rh5-HTTLPR in peripheral blood cells. Translational Psychiatry, 2012, 2, e77-e77.	2.4	15
74	Sa1455 Lactobacillus Reuteri Treatment Reduces Visceral Hypersensitivity in Serotonin Transporter Knockout Rats. Gastroenterology, 2012, 142, S-310.	0.6	1
75	Electroanalytical Performance of Nitrogen-Containing Tetrahedral Amorphous Carbon Thin-Film Electrodes. Analytical Chemistry, 2012, 84, 6240-6248.	3.2	62
76	Activation of Colonic Mucosal 5-HT4 Receptors Accelerates Propulsive Motility and Inhibits Visceral Hypersensitivity. Gastroenterology, 2012, 142, 844-854.e4.	0.6	224
77	Impaired K+ channel function leads to increased catecholamine secretion by adrenal chromaffin cells in DOCAâ€salt hypertension. FASEB Journal, 2012, 26, 843.3.	0.2	0
78	Electrolyte and Temperature Effects on the Electron Transfer Kinetics of Fe(CN)₆^{â€“3/-4} at Boron-Doped Diamond Thin Film Electrodes. Journal of Physical Chemistry C, 2011, 115, 10026-10032.	1.5	39
79	Improvements in the formation of boron-doped diamond coatings on platinum wires using the novel nucleation process (NNP). Diamond and Related Materials, 2011, 20, 75-83.	1.8	11
80	Equilibrium and Kinetic Behavior of Fe(CN)₆^{3â^'/4â^'} and Cytochrome c in Direct Electrochemistry Using a Film Electrode Thin-Layer Transmission Cell. Analytical Chemistry, 2011, 83, 542-548.	3.2	18
81	Postnatal Changes in Monoamine Transporter Function in the Guinea Pig Ileum. Gastroenterology, 2011, 140, S-520-S-521.	0.6	0
82	Boron-doped diamond nano microelectrodes for biosensing and in vitro measurements. Frontiers in Bioscience - Scholar, 2011, S3, 518-540.	0.8	28
83	Postnatal development of the serotonin signaling system in the mucosa of the guinea pig ileum. Neurogastroenterology and Motility, 2011, 23, 161-e40.	1.6	9
84	The Formation, Structure, Electrochemical Properties and Stability of Trivalent Chrome Process (TCP) Coatings on AA2024. Journal of the Electrochemical Society, 2011, 158, C274.	1.3	74
85	Microstructural Stability of Electrically Conducting Diamond Powder as Probed Using Electrochemical Methods and In Situ Raman Spectroscopy. Journal of the Electrochemical Society, 2011, 158, B1446.	1.3	2
86	Inhibitory neuromuscular transmission to ileal longitudinal muscle predominates in neonatal guinea pigs. Neurogastroenterology and Motility, 2010, 22, 909.	1.6	22
87	Oxidation Resistance of Bare and Pt-Coated Electrically Conducting Diamond Powder as Assessed by Thermogravimetric Analysis. Journal of the Electrochemical Society, 2010, 157, A19.	1.3	20
88	Boron-Doped Diamond Microelectrodes Reveal Reduced Serotonin Uptake Rates in Lymphocytes from Adult Rhesus Monkeys Carrying the Short Allele of the 5-HTTLPR. ACS Chemical Neuroscience, 2010, 1, 49-64.	1.7	55
89	Alterations in sympathetic neuroeffector transmission to mesenteric arteries but not veins in DOCA-salt hypertension. Autonomic Neuroscience: Basic and Clinical, 2010, 152, 11-20.	1.4	22
90	Antioxidant treatment restores prejunctional regulation of purinergic transmission in mesenteric arteries of deoxycorticosterone acetate-salt hypertensive rats. Neuroscience, 2010, 168, 335-345.	1.1	14

#	Article	IF	Citations
91	Electrochemical measurements of serotonin (5-HT) release from the guinea pig mucosa using continuous amperometry with a boron-doped diamond microelectrode. Diamond and Related Materials, 2010, 19, 182-185.	1.8	53
92	Investigating the Nucleation and Growth of Electrodeposited Pt on Polycrystalline Diamond Electrodes. Journal of the Electrochemical Society, 2010, 157, F89.	1.3	11
93	Publisher's Note: Oxidation Resistance of Bare and Pt-Coated Electrically Conducting Diamond Powder as Assessed by Thermogravimetric Analysis [J. Electrochem. Soc., 157, A19 (2010)]. Journal of the Electrochemical Society, 2010, 157, S7.	1.3	1
94	Amperometric Determination of Aminobiphenyls Using HPLCâ€ED with Boronâ€Doped Diamond Electrode. Electroanalysis, 2009, 21, 316-324.	1.5	21
95	Drug effects on the electrochemical detection of norepinephrine with carbon fiber and diamond microelectrodes. Journal of Electroanalytical Chemistry, 2009, 632, 20-29.	1.9	37
96	Preparation and Characterization of Glassy Carbon Powder Modified with a Thin Layer of Boron-Doped Ultrananocrystalline Diamond (B-UNCD). Chemistry of Materials, 2009, 21, 2705-2713.	3.2	15
97	The structural and electrochemical properties of boron-doped nanocrystalline diamond thin-film electrodes grown from Ar-rich and H2-rich source gases. Diamond and Related Materials, 2009, 18, 669-677.	1.8	95
98	The effect of the CH4 level on the morphology, microstructure, phase purity and electrochemical properties of carbon films deposited by microwave-assisted CVD from Ar-rich source gas mixtures. Diamond and Related Materials, 2009, 18, 1426-1434.	1.8	24
99	CE coupled with amperometric detection using a boronâ€doped diamond microelectrode: Validation of a method for endogenous norepinephrine analysis in tissue. Electrophoresis, 2008, 29, 441-447.	1.3	12
100	Electrochemically modulated liquid chromatography using a boron-doped diamond particle stationary phase. Journal of Chromatography A, 2008, 1210, 154-159.	1.8	21
101	Electrochemical monitoring of nitric oxide released by myenteric neurons of the guinea pig ileum. Neurogastroenterology and Motility, 2008, 20, 1243-1250.	1.6	28
102	The Physicochemical and Electrochemical Properties of 100 and 500â€,nm Diameter Diamond Powders Coated with Boron-Doped Nanocrystalline Diamond. Journal of the Electrochemical Society, 2008, 155, B1013.	1.3	40
103	New Horizons in Spectroelectrochemical Measurements: Optically Transparent Carbon Electrodes. Analytical Chemistry, 2008, 80, 14-22.	3.2	25
104	Diamond-derived ultramicroelectrodes designed for electrochemical analysis and bioanalyte sensing. Diamond and Related Materials, 2008, 17, 900-905.	1.8	28
105	Boron doped diamond deposited by microwave plasma-assisted CVD at low and high pressures. Diamond and Related Materials, 2008, 17, 481-485.	1.8	40
106	Diamond microelectrodes for in vitro electroanalytical measurements: current status and remaining challenges. Analyst, The, 2008, 133, 17-24.	1.7	62
107	Fabrication and testing of a novel all-diamond neural probe for chemical detection and electrical sensing applications. , 2008, , .		7
108	Effect of stellate ganglionectomy on basal cardiovascular function and responses to Î²1-adrenoceptor blockade in the rat. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H2447-H2454.	1.5	23

#	Article	IF	Citations
109	Cardiac norepinephrine transporter protein expression is inversely correlated to chamber norepinephrine content. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R857-R863.	0.9	18
110	TRPV1-mediated protection against endotoxin-induced hypotension and mortality in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1517-R1523.	0.9	30
111	Whole body norepinephrine kinetics in ANG II-salt hypertension in the rat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1262-R1267.	0.9	46
112	Deletion of Transient Receptor Potential Vanilloid Type 1 Receptors Exaggerates Renal Damage in Deoxycorticosterone Acetate-Salt Hypertension. Hypertension, 2008, 52, 264-270.	1.3	47
113	Preparation and Electrochemical Characterization of Carbon Paper Modified with a Layer of Boron-Doped Nanocrystalline Diamond. Journal of the Electrochemical Society, 2007, 154, K61.	1.3	16
114	Development of a Method for Total Inorganic Arsenic Analysis Using Anodic Stripping Voltammetry and a Au-Coated, Diamond Thin-Film Electrode. Analytical Chemistry, 2007, 79, 2412-2420.	3.2	114
115	Solid Electrode Materials. , 2007, , 111-153.		40
116	In vitro continuous amperometric monitoring of 5-hydroxytryptamine release from enterochromaffin cells of the guinea pig ileum. Analyst, The, 2007, 132, 41-47.	1.7	102
117	Spatially Heterogeneous Electrical and Electrochemical Properties of Hydrogen-Terminated Boron-Doped Nanocrystalline Diamond Thin Film Deposited from an Argon-Rich CH4/H2/Ar/B2H6Source Gas Mixture. Journal of Physical Chemistry C, 2007, 111, 3986-3995.	1.5	42
118	Optically Transparent Diamond Electrode for Use in IR Transmission Spectroelectrochemical Measurements. Analytical Chemistry, 2007, 79, 7526-7533.	3.2	25
119	High Mucosal Serotonin Availability in Neonatal Guinea Pig Ileum Is Associated With Low Serotonin Transporter Expression. Gastroenterology, 2007, 132, 2438-2447.	0.6	67
120	Total inorganic arsenic detection in real water samples using anodic stripping voltammetry and a gold-coated diamond thin-film electrode. Analytica Chimica Acta, 2007, 593, 7-12.	2.6	98
121	Differences in sympathetic neuroeffector transmission to rat mesenteric arteries and veins as probed by in vitro continuous amperometry and video imaging. Journal of Physiology, 2007, 584, 819-834.	1.3	38
122	Mild electrocatalytic hydrogenation of lactic acid to lactaldehyde and propylene glycol. Journal of Catalysis, 2007, 246, 15-28.	3.1	46
123	Determination of endogenous norepinephrine levels in different chambers of the rat heart by capillary electrophoresis coupled with amperometric detection. Journal of Neuroscience Methods, 2007, 163, 52-59.	1.3	13
124	Thermionic emission from surface-terminated nanocrystalline diamond. Diamond and Related Materials, 2006, 15, 1601-1608.	1.8	20
125	Fabrication, characterization, and application of a diamond microelectrode for electrochemical measurement of norepinephrine release from the sympathetic nervous system. Diamond and Related Materials, 2006, 15, 761-772.	1.8	67
126	In Vitro Continuous Amperometry with a Diamond Microelectrode Coupled with Video Microscopy for Simultaneously Monitoring Endogenous Norepinephrine and Its Effect on the Contractile Response of a Rat Mesenteric Artery. Analytical Chemistry, 2006, 78, 6756-6764.	3.2	68

#	Article	IF	Citations
127	A comparison of boron-doped diamond thin-film and Hg-coated glassy carbon electrodes for anodic stripping voltammetric determination of heavy metal ions in aqueous media. Analytica Chimica Acta, 2006, 575, 180-189.	2.6	159
128	Formation of a Crack-Free and Debonding-Resistant Boron-Doped Diamond Thin Film on Titanium Using a Dual-Coating Strategy. Journal of the Electrochemical Society, 2006, 153, B506.	1.3	8
129	Conductive Diamond Powder: A New Catalyst Support for the Polymer Electrolyte Membrane Fuel Cell. ECS Transactions, 2006, 3, 27-36.	0.3	10
130	Diamond microelectrodes for use in biological environments. Journal of Electroanalytical Chemistry, 2005, 583, 56-68.	1.9	81
131	Chlorinated Phenol Analysis Using Off-Line Solid-Phase Extraction and Capillary Electrophoresis Coupled with Amperometric Detection and a Boron-Doped Diamond Microelectrode. Analytical Chemistry, 2005, 77, 6542-6548.	3.2	76
132	The Analysis of Chlorinated Phenol Solutions by Capillary Electrophoresis Coupled with Direct and Indirect Amperometric Detection Using a Boron-Doped Diamond Microelectrode. Electroanalysis, 2005, 17, 1160-1170.	1.5	31
133	Diamond Thin-Film Electrodes for Monitoring Heavy Metal Ions in Water Supplies Using Anodic Stripping Voltammetry. , 2005, , .		0
134	Pulsed Galvanostatic Deposition of Pt Particles on Microcrystalline and Nanocrystalline Diamond Thin-Film Electrodes. Journal of the Electrochemical Society, 2005, 152, E184.	1.3	53
135	Provenance and tectonic development of the late Archaean Gawler Craton, Australia; Uâ€“Pb zircon, geochemical and Smâ€“Nd isotopic implications. Precambrian Research, 2005, 141, 106-136.	1.2	109
136	Preparation and Characterization of Boron-Doped Diamond Powder. Journal of the Electrochemical Society, 2005, 152, B369.	1.3	76
137	Comparison of the Electrical, Optical, and Electrochemical Properties of Diamond and Indium Tin Oxide Thin-Film Electrodes. Chemistry of Materials, 2005, 17, 4880-4888.	3.2	103
138	Thermionic Emission Energy Distributions From Nanocrystalline Diamond. , 2004, , 533.		0
139	Chapter 4 Electroanalytical applications of diamond electrodes. Semiconductors and Semimetals, 2004, 77, 121-148.	0.4	24
140	Metal ion analysis in contaminated water samples using anodic stripping voltammetry and a nanocrystalline diamond thin-film electrode. Analytica Chimica Acta, 2004, 522, 35-44.	2.6	108
141	Effect of sp[sup 2]-Bonded Nondiamond Carbon Impurity on the Response of Boron-Doped Polycrystalline Diamond Thin-Film Electrodes. Journal of the Electrochemical Society, 2004, 151, E306.	1.3	153
142	Scanning Electrochemical Microscopy and Conductive Probe Atomic Force Microscopy Studies of Hydrogen-Terminated Boron-Doped Diamond Electrodes with Different Doping Levels. Journal of Physical Chemistry B, 2004, 108, 15117-15127.	1.2	180
143	Electro-oxidation and Amperometric Detection of Chlorinated Phenols at Boron-Doped Diamond Electrodes:Â A Comparison of Microcrystalline and Nanocrystalline Thin Films. Environmental Science & Technology, 2004, 38, 3674-3682.	4.6	103
144	Electrochemical Performance of Diamond Thin-Film Electrodes from Different Commercial Sources. Analytical Chemistry, 2004, 76, 2553-2560.	3.2	179

#	Article	IF	Citations
145	Diamond-derived microelectrodes array for electrochemical analysis. Diamond and Related Materials, 2004, 13, 2009-2015.	1.8	61
146	Electron Transfer Kinetics of Ferrocene at Microcrystalline Boron-Doped Diamond Electrodes: Effect of Solvent and Electrolyte. Electroanalysis, 2003, 15, 249-253.	1.5	22
147	Spectroelectrochemical responsiveness of a freestanding, boron-doped diamond, optically transparent electrode toward ferrocene. Analytica Chimica Acta, 2003, 500, 137-144.	2.6	36
148	CVD diamond anisotropic film as electrode for electrochemical sensing. Sensors and Actuators B: Chemical, 2003, 91, 39-45.	4.0	28
149	Characterization and Electrochemical Responsiveness of Boron-Doped Nanocrystalline Diamond Thin-Film Electrodes. Chemistry of Materials, 2003, 15, 879-888.	3.2	154
150	Boron-Doped Diamond Microelectrodes for Use in Capillary Electrophoresis with Electrochemical Detection. Analytical Chemistry, 2003, 75, 2678-2687.	3.2	100
151	Conductive diamond thin-films in electrochemistry. Diamond and Related Materials, 2003, 12, 1940-1949.	1.8	301
152	Fabrication and Evaluation of Platinum/Diamond Composite Electrodes for Electrocatalysis. Journal of the Electrochemical Society, 2003, 150, E24.	1.3	94
153	Optically Transparent Diamond Electrodes for UV-Vis and IR Spectroelectrochemistry. Electrochemical Society Interface, 2003, 12, 33-38.	0.3	12
154	Electrically Conducting Diamond Thin Films. Electroanalytical Chemistry, A Series of Advances, 2003, , .	1.7	2
155	Electrically Conducting Diamond Thin Films: Advanced Electrode Materials for Electrochemical Technologies. , 2003, , 181-277.		4
156	Dimensionally Stable Pt/Diamond Composite Electrodes in Concentrated H[sub 3]PO[sub 4] at High Temperature. Electrochemical and Solid-State Letters, 2002, 5, E4.	2.2	30
157	A Confocal Raman Imaging Study of an Optically Transparent Boron-Doped Diamond Electrode. Journal of Physical Chemistry B, 2002, 106, 10816-10827.	1.2	58
158	Direct Electrochemistry of Cytochrome c at Nanocrystalline Boron-Doped Diamond. Journal of the American Chemical Society, 2002, 124, 10634-10635.	6.6	83
159	Optical and Electrochemical Properties of Optically Transparent, Boron-Doped Diamond Thin Films Deposited on Quartz. Analytical Chemistry, 2002, 74, 5924-5930.	3.2	72
160	Diamond Optically Transparent Electrodes:â€‰ Demonstration of Concept with Ferri/Ferrocyanide and Methyl Viologen. Analytical Chemistry, 2001, 73, 908-914.	3.2	57
161	Summary of Recent Progress with Diamond Electrodes in Electroanalysis, Spectroelectrochemistry and Electrocatalysis. Journal of Wide Bandgap Materials, 2001, 8, 171-188.	0.1	9
162	Aliphatic polyamine oxidation response variability and stability at boron-doped diamond thin-film electrodes as studied by flow-injection analysis. Analytica Chimica Acta, 2001, 440, 119-129.	2.6	31

#	Article	IF	Citations
163	The Structure and Electrochemical Behavior of Nitrogen-Containing Nanocrystalline Diamond Films Deposited from CH[sub 4]/N[sub 2]/Ar Mixtures. Journal of the Electrochemical Society, 2001, 148, E44.	1.3	107
164	The Electrochemical Properties of Nanocrystalline Diamond Thinâ€Films Deposited from C ₆₀ /Argon and Methane/Nitrogen Gas Mixtures. Electroanalysis, 2000, 12, 7-15.	1.5	41
165	Standard Electrochemical Behavior of High-Quality, Boron-Doped Polycrystalline Diamond Thin-Film Electrodes. Analytical Chemistry, 2000, 72, 3793-3804.	3.2	398
166	Polycrystalline diamond electrodes: basic properties and applications as amperometric detectors in flow injection analysis and liquid chromatography. Analytica Chimica Acta, 1999, 397, 145-161.	2.6	201
167	Electrochemical Modification of Boron-Doped Chemical Vapor Deposited Diamond Surfaces with Covalently Bonded Monolayers. Electrochemical and Solid-State Letters, 1999, 2, 288.	2.2	136
168	Voltammetric and Amperometric Investigations of Azide Oxidation at the Basal Plane of Highly Oriented Pyrolytic Graphite. Analytical Chemistry, 1999, 71, 4603-4608.	3.2	14
169	The Influence of Surface Interactions on the Reversibility of Ferri/Ferrocyanide at Boronâ€Doped Diamond Thinâ€Film Electrodes. Journal of the Electrochemical Society, 1999, 146, 4551-4558.	1.3	240
170	Electrochemical Oxidation of Polyamines at Diamond Thin-Film Electrodes. Analytical Chemistry, 1999, 71, 1188-1195.	3.2	135
171	Incorporation of Pt Particles in Boron-Doped Diamond Thin Films Applications in Electrocatalysis. Electrochemical and Solid-State Letters, 1999, 3, 286.	2.2	50
172	Structural Characterization, Electrochemical Reactivity, and Response Stability of Hydrogenated Glassy Carbon Electrodes. Langmuir, 1998, 14, 7017-7026.	1.6	67
173	Oxidation of Azide Anion at Boron-Doped Diamond Thin-Film Electrodes. Analytical Chemistry, 1998, 70, 1502-1510.	3.2	124
174	Anthraquinonedisulfonate Electrochemistry:Â A Comparison of Glassy Carbon, Hydrogenated Glassy Carbon, Highly Oriented Pyrolytic Graphite, and Diamond Electrodes. Analytical Chemistry, 1998, 70, 3146-3154.	3.2	238
175	Applications of Diamond Thin Films in Electrochemistry. MRS Bulletin, 1998, 23, 56-60.	1.7	203
176	Morphological and Microstructural Stability of Boronâ€Doped Diamond Thin Film Electrodes in an Acidic Chloride Medium at High Anodic Current Densities. Journal of the Electrochemical Society, 1997, 144, 3806-3812.	1.3	91
177	The Formation and Electrochemical Activity of Microporous Diamond Thin Film Electrodes in Concentrated KOH. Journal of the Electrochemical Society, 1997, 144, 856-866.	1.3	69
178	Flow Injection Analysis with Diamond Thin-Film Detectors. Analytical Chemistry, 1997, 69, 4099-4107.	3.2	98
179	Peer Reviewed: Boron-Doped Diamond Thin-Film Electrodes. Analytical Chemistry, 1997, 69, 591A-597A.	3.2	231
180	Electrochemical and Surface Structural Characterization of Hydrogen Plasma Treated Glassy Carbon Electrodes. Langmuir, 1996, 12, 6578-6586.	1.6	68

#	Article	IF	Citations
181	Enhanced Signal-to-Background Ratios in Voltammetric Measurements Made at Diamond Thin-Film Electrochemical Interfaces. Analytical Chemistry, 1996, 68, 2031-2037.	3.2	127
182	Freestanding Diamond Thin Films Grown on Glassy Carbon Substrates. Journal of the Electrochemical Society, 1996, 143, L150-L153.	1.3	19
183	Effect of underpotential deposition (UPD) of copper on oxygen reduction at Pt(111) surfaces. Journal of Electroanalytical Chemistry, 1995, 382, 73-83.	1.9	88
184	In-situ scanning tunneling microscopy of well-ordered Rh(111) electrodes. Journal of Electroanalytical Chemistry, 1995, 381, 105-111.	1.9	50
185	Electrodeposition of Metal Adlayers on Boronâ€Doped Diamond Thinâ€Film Electrodes. Journal of the Electrochemical Society, 1995, 142, L42-L45.	1.3	65
186	Cyclic Voltammetric Studies of Charge Transfer Reactions at Highly Boron-Doped Polycrystalline Diamond Thin-Film Electrodes. Analytical Chemistry, 1995, 67, 2812-2821.	3.2	176
187	Electrochemistry and the environment. Journal of Applied Electrochemistry, 1994, 24, 1077.	1.5	366
188	The use of CVD diamond thin films in electrochemical systems. Advanced Materials, 1994, 6, 388-392.	11.1	92
189	High surface area, low-weight composite nickel fiber electrodes. Journal of Power Sources, 1994, 47, 251-259.	4.0	7
190	The Susceptibility to Surface Corrosion in Acidic Fluoride Media: A Comparison of Diamond, HOPG, and Glassy Carbon Electrodes. Journal of the Electrochemical Society, 1994, 141, 3382-3393.	1.3	227
191	The electrochemical activity of boron-doped polycrystalline diamond thin film electrodes. Analytical Chemistry, 1993, 65, 345-351.	3.2	388
192	Electrochemical Reduction of Oxygen at â€œElectrocoatedâ€•Nafionâ€Modified Metalâ€Carbon Composite and Platinum Electrodes. Journal of the Electrochemical Society, 1993, 140, 1026-1033.	1.3	8
193	Anodic fracturing and vacuum heat treated annealing of pitch-based carbon fibers. Analytical Chemistry, 1992, 64, 565-568.	3.2	24
194	Electrochemical formation of high surface area carbon fibers. Analytical Chemistry, 1991, 63, 517-519.	3.2	30
195	Bilateral Carotid-Cavernous Fistula. Journal of Neurosurgery, 1954, 11, 323-326.	0.9	17
196	Conducting diamond films in electrochemistry. , 0, , .		0
197	Electrochemical Monitoring of Iodine and Its Disinfection By-Products with Diamond Thin-Film Electrodes. , 0, , .		0
198	A path of luck and light. Electroanalysis, 0, , .	1.5	0

#	Article	IF	Citations
199	Editorial (May 2022). Electroanalysis, 0, , .	1.5	0