

Greg M Swain

List of Publications by Year in descending order

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199
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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	Standard Electrochemical Behavior of High-Quality, Boron-Doped Polycrystalline Diamond Thin-Film Electrodes. <i>Analytical Chemistry</i> , 2000, 72, 3793-3804.	3.2	398
2	The electrochemical activity of boron-doped polycrystalline diamond thin film electrodes. <i>Analytical Chemistry</i> , 1993, 65, 345-351.	3.2	388
3	Electrochemistry and the environment. <i>Journal of Applied Electrochemistry</i> , 1994, 24, 1077.	1.5	366
4	Conductive diamond: synthesis, properties, and electrochemical applications. <i>Chemical Society Reviews</i> , 2019, 48, 157-204.	18.7	333
5	Conductive diamond thin-films in electrochemistry. <i>Diamond and Related Materials</i> , 2003, 12, 1940-1949.	1.8	301
6	The Influence of Surface Interactions on the Reversibility of Ferri/Ferrocyanide at Boron-Doped Diamond Thin-Film Electrodes. <i>Journal of the Electrochemical Society</i> , 1999, 146, 4551-4558.	1.3	240
7	Anthraquinonedisulfonate Electrochemistry: A Comparison of Glassy Carbon, Hydrogenated Glassy Carbon, Highly Oriented Pyrolytic Graphite, and Diamond Electrodes. <i>Analytical Chemistry</i> , 1998, 70, 3146-3154.	3.2	238
8	Peer Reviewed: Boron-Doped Diamond Thin-Film Electrodes. <i>Analytical Chemistry</i> , 1997, 69, 591A-597A.	3.2	231
9	The Susceptibility to Surface Corrosion in Acidic Fluoride Media: A Comparison of Diamond, HOPG, and Glassy Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 1994, 141, 3382-3393.	1.3	227
10	Activation of Colonic Mucosal 5-HT ₄ Receptors Accelerates Propulsive Motility and Inhibits Visceral Hypersensitivity. <i>Gastroenterology</i> , 2012, 142, 844-854.e4.	0.6	224
11	Applications of Diamond Thin Films in Electrochemistry. <i>MRS Bulletin</i> , 1998, 23, 56-60.	1.7	203
12	Polycrystalline diamond electrodes: basic properties and applications as amperometric detectors in flow injection analysis and liquid chromatography. <i>Analytica Chimica Acta</i> , 1999, 397, 145-161.	2.6	201
13	Scanning Electrochemical Microscopy and Conductive Probe Atomic Force Microscopy Studies of Hydrogen-Terminated Boron-Doped Diamond Electrodes with Different Doping Levels. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15117-15127.	1.2	180
14	Electrochemical Performance of Diamond Thin-Film Electrodes from Different Commercial Sources. <i>Analytical Chemistry</i> , 2004, 76, 2553-2560.	3.2	179
15	Cyclic Voltammetric Studies of Charge Transfer Reactions at Highly Boron-Doped Polycrystalline Diamond Thin-Film Electrodes. <i>Analytical Chemistry</i> , 1995, 67, 2812-2821.	3.2	176
16	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. <i>Analytica Chimica Acta</i> , 2006, 575, 180-189.	2.6	159
17	Characterization and Electrochemical Responsiveness of Boron-Doped Nanocrystalline Diamond Thin-Film Electrodes. <i>Chemistry of Materials</i> , 2003, 15, 879-888.	3.2	154
18	Effect of sp ² -Bonded Nondiamond Carbon Impurity on the Response of Boron-Doped Polycrystalline Diamond Thin-Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2004, 151, E306.	1.3	153

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19	Electrochemical Modification of Boron-Doped Chemical Vapor Deposited Diamond Surfaces with Covalently Bonded Monolayers. <i>Electrochemical and Solid-State Letters</i> , 1999, 2, 288.	2.2	136
20	Electrochemical Oxidation of Polyamines at Diamond Thin-Film Electrodes. <i>Analytical Chemistry</i> , 1999, 71, 1188-1195.	3.2	135
21	Enhanced Signal-to-Background Ratios in Voltammetric Measurements Made at Diamond Thin-Film Electrochemical Interfaces. <i>Analytical Chemistry</i> , 1996, 68, 2031-2037.	3.2	127
22	Oxidation of Azide Anion at Boron-Doped Diamond Thin-Film Electrodes. <i>Analytical Chemistry</i> , 1998, 70, 1502-1510.	3.2	124
23	Development of a Method for Total Inorganic Arsenic Analysis Using Anodic Stripping Voltammetry and a Au-Coated, Diamond Thin-Film Electrode. <i>Analytical Chemistry</i> , 2007, 79, 2412-2420.	3.2	114
24	Provenance and tectonic development of the late Archaean Gawler Craton, Australia; U-Pb zircon, geochemical and Sm-Nd isotopic implications. <i>Precambrian Research</i> , 2005, 141, 106-136.	1.2	109
25	Metal ion analysis in contaminated water samples using anodic stripping voltammetry and a nanocrystalline diamond thin-film electrode. <i>Analytica Chimica Acta</i> , 2004, 522, 35-44.	2.6	108
26	The Structure and Electrochemical Behavior of Nitrogen-Containing Nanocrystalline Diamond Films Deposited from CH ₄ /N ₂ /Ar Mixtures. <i>Journal of the Electrochemical Society</i> , 2001, 148, E44.	1.3	107
27	Diamond electrodes: Diversity and maturity. <i>MRS Bulletin</i> , 2014, 39, 525-532.	1.7	106
28	Electro-oxidation and Amperometric Detection of Chlorinated Phenols at Boron-Doped Diamond Electrodes: A Comparison of Microcrystalline and Nanocrystalline Thin Films. <i>Environmental Science & Technology</i> , 2004, 38, 3674-3682.	4.6	103
29	Comparison of the Electrical, Optical, and Electrochemical Properties of Diamond and Indium Tin Oxide Thin-Film Electrodes. <i>Chemistry of Materials</i> , 2005, 17, 4880-4888.	3.2	103
30	In vitro continuous amperometric monitoring of 5-hydroxytryptamine release from enterochromaffin cells of the guinea pig ileum. <i>Analyst</i> , 2007, 132, 41-47.	1.7	102
31	Boron-Doped Diamond Microelectrodes for Use in Capillary Electrophoresis with Electrochemical Detection. <i>Analytical Chemistry</i> , 2003, 75, 2678-2687.	3.2	100
32	Flow Injection Analysis with Diamond Thin-Film Detectors. <i>Analytical Chemistry</i> , 1997, 69, 4099-4107.	3.2	98
33	Total inorganic arsenic detection in real water samples using anodic stripping voltammetry and a gold-coated diamond thin-film electrode. <i>Analytica Chimica Acta</i> , 2007, 593, 7-12.	2.6	98
34	The structural and electrochemical properties of boron-doped nanocrystalline diamond thin-film electrodes grown from Ar-rich and H ₂ -rich source gases. <i>Diamond and Related Materials</i> , 2009, 18, 669-677.	1.8	95
35	Fabrication and Evaluation of Platinum/Diamond Composite Electrodes for Electrocatalysis. <i>Journal of the Electrochemical Society</i> , 2003, 150, E24.	1.3	94
36	The use of CVD diamond thin films in electrochemical systems. <i>Advanced Materials</i> , 1994, 6, 388-392.	11.1	92

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37	Morphological and Microstructural Stability of Boron-Doped Diamond Thin Film Electrodes in an Acidic Chloride Medium at High Anodic Current Densities. <i>Journal of the Electrochemical Society</i> , 1997, 144, 3806-3812.	1.3	91
38	Effect of underpotential deposition (UPD) of copper on oxygen reduction at Pt(111) surfaces. <i>Journal of Electroanalytical Chemistry</i> , 1995, 382, 73-83.	1.9	88
39	In situ pH measurement during the formation of conversion coatings on an aluminum alloy (AA2024). <i>Analyst, The</i> , 2013, 138, 4398.	1.7	85
40	Direct Electrochemistry of Cytochrome c at Nanocrystalline Boron-Doped Diamond. <i>Journal of the American Chemical Society</i> , 2002, 124, 10634-10635.	6.6	83
41	Diamond microelectrodes for use in biological environments. <i>Journal of Electroanalytical Chemistry</i> , 2005, 583, 56-68.	1.9	81
42	Nanocarbon Electrochemistry and Electroanalysis: Current Status and Future Perspectives. <i>Electroanalysis</i> , 2016, 28, 27-34.	1.5	79
43	Chlorinated Phenol Analysis Using Off-Line Solid-Phase Extraction and Capillary Electrophoresis Coupled with Amperometric Detection and a Boron-Doped Diamond Microelectrode. <i>Analytical Chemistry</i> , 2005, 77, 6542-6548.	3.2	76
44	Preparation and Characterization of Boron-Doped Diamond Powder. <i>Journal of the Electrochemical Society</i> , 2005, 152, B369.	1.3	76
45	The Formation, Structure, Electrochemical Properties and Stability of Trivalent Chrome Process (TCP) Coatings on AA2024. <i>Journal of the Electrochemical Society</i> , 2011, 158, C274.	1.3	74
46	Optical and Electrochemical Properties of Optically Transparent, Boron-Doped Diamond Thin Films Deposited on Quartz. <i>Analytical Chemistry</i> , 2002, 74, 5924-5930.	3.2	72
47	The Formation and Electrochemical Activity of Microporous Diamond Thin Film Electrodes in Concentrated KOH. <i>Journal of the Electrochemical Society</i> , 1997, 144, 856-866.	1.3	69
48	Electrochemical and Surface Structural Characterization of Hydrogen Plasma Treated Glassy Carbon Electrodes. <i>Langmuir</i> , 1996, 12, 6578-6586.	1.6	68
49	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. <i>Analytical Chemistry</i> , 2006, 78, 6756-6764.	3.2	68
50	Structural Characterization, Electrochemical Reactivity, and Response Stability of Hydrogenated Glassy Carbon Electrodes. <i>Langmuir</i> , 1998, 14, 7017-7026.	1.6	67
51	Fabrication, characterization, and application of a diamond microelectrode for electrochemical measurement of norepinephrine release from the sympathetic nervous system. <i>Diamond and Related Materials</i> , 2006, 15, 761-772.	1.8	67
52	High Mucosal Serotonin Availability in Neonatal Guinea Pig Ileum Is Associated With Low Serotonin Transporter Expression. <i>Gastroenterology</i> , 2007, 132, 2438-2447.	0.6	67
53	Electrodeposition of Metal Adlayers on Boron-Doped Diamond Thin-Film Electrodes. <i>Journal of the Electrochemical Society</i> , 1995, 142, L42-L45.	1.3	65
54	Diamond microelectrodes for in vitro electroanalytical measurements: current status and remaining challenges. <i>Analyst, The</i> , 2008, 133, 17-24.	1.7	62

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55	Electroanalytical Performance of Nitrogen-Containing Tetrahedral Amorphous Carbon Thin-Film Electrodes. <i>Analytical Chemistry</i> , 2012, 84, 6240-6248.	3.2	62
56	Diamond-derived microelectrodes array for electrochemical analysis. <i>Diamond and Related Materials</i> , 2004, 13, 2009-2015.	1.8	61
57	Transient Formation of Chromate in Trivalent Chromium Process (TCP) Coatings on AA2024 as Probed by Raman Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2012, 159, C326-C333.	1.3	61
58	A Confocal Raman Imaging Study of an Optically Transparent Boron-Doped Diamond Electrode. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10816-10827.	1.2	58
59	Diamond Optically Transparent Electrodes: Demonstration of Concept with Ferri/Ferrocyanide and Methyl Viologen. <i>Analytical Chemistry</i> , 2001, 73, 908-914.	3.2	57
60	Boron-Doped Diamond Microelectrodes Reveal Reduced Serotonin Uptake Rates in Lymphocytes from Adult Rhesus Monkeys Carrying the Short Allele of the <i>5-HTTLPR</i> . <i>ACS Chemical Neuroscience</i> , 2010, 1, 49-64.	1.7	55
61	Pulsed Galvanostatic Deposition of Pt Particles on Microcrystalline and Nanocrystalline Diamond Thin-Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2005, 152, E184.	1.3	53
62	Electrochemical measurements of serotonin (5-HT) release from the guinea pig mucosa using continuous amperometry with a boron-doped diamond microelectrode. <i>Diamond and Related Materials</i> , 2010, 19, 182-185.	1.8	53
63	In-situ scanning tunneling microscopy of well-ordered Rh(111) electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1995, 381, 105-111.	1.9	50
64	Incorporation of Pt Particles in Boron-Doped Diamond Thin Films Applications in Electrocatalysis. <i>Electrochemical and Solid-State Letters</i> , 1999, 3, 286.	2.2	50
65	Exhaled breath biomarker sensing. <i>Biosensors and Bioelectronics</i> , 2021, 182, 113193.	5.3	50
66	Deletion of Transient Receptor Potential Vanilloid Type 1 Receptors Exaggerates Renal Damage in Deoxycorticosterone Acetate-Salt Hypertension. <i>Hypertension</i> , 2008, 52, 264-270.	1.3	47
67	Mild electrocatalytic hydrogenation of lactic acid to lactaldehyde and propylene glycol. <i>Journal of Catalysis</i> , 2007, 246, 15-28.	3.1	46
68	Whole body norepinephrine kinetics in ANG II-salt hypertension in the rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1262-R1267.	0.9	46
69	Electrochemical Characterization of Trivalent Chromium Process (TCP) Coatings on Aluminum Alloys 6061 and 7075. <i>Journal of the Electrochemical Society</i> , 2013, 160, C396-C401.	1.3	46
70	Inkjet-Printed Carbon Nanotube Electrodes for Measuring Pyocyanin and Uric Acid in a Wound Fluid Simulant and Culture Media. <i>Analytical Chemistry</i> , 2019, 91, 8835-8844.	3.2	46
71	Effects of Aging Temperature and Time on the Corrosion Protection Provided by Trivalent Chromium Process Coatings on AA2024-T3. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7923-7930.	4.0	45
72	Structure, Electronic Properties, and Electrochemical Behavior of a Boron-Doped Diamond/Quartz Optically Transparent Electrode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28325-28337.	4.0	44

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73	Spatially Heterogeneous Electrical and Electrochemical Properties of Hydrogen-Terminated Boron-Doped Nanocrystalline Diamond Thin Film Deposited from an Argon-Rich CH ₄ /H ₂ /Ar/B ₂ H ₆ Source Gas Mixture. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3986-3995.	1.5	42
74	Comparative electrochemical response of estrone at glassy-carbon, nitrogen-containing tetrahedral amorphous carbon and boron-doped diamond thin-film electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2014, 712, 207-214.	1.9	42
75	The Electrochemical Properties of Nanocrystalline Diamond Thin Films Deposited from C ₆₀ /Argon and Methane/Nitrogen Gas Mixtures. <i>Electroanalysis</i> , 2000, 12, 7-15.	1.5	41
76	<i>Solid Electrode Materials.</i> , 2007, , 111-153.		40
77	The Physicochemical and Electrochemical Properties of 100 and 500 nm Diameter Diamond Powders Coated with Boron-Doped Nanocrystalline Diamond. <i>Journal of the Electrochemical Society</i> , 2008, 155, B1013.	1.3	40
78	Boron doped diamond deposited by microwave plasma-assisted CVD at low and high pressures. <i>Diamond and Related Materials</i> , 2008, 17, 481-485.	1.8	40
79	Electrolyte and Temperature Effects on the Electron Transfer Kinetics of Fe(CN) ₆ ^{3-/4-} at Boron-Doped Diamond Thin Film Electrodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10026-10032.	1.5	39
80	Charge-Induced Long-Range Order in a Room-Temperature Ionic Liquid. <i>Langmuir</i> , 2016, 32, 9507-9512.	1.6	39
81	Differences in sympathetic neuroeffector transmission to rat mesenteric arteries and veins as probed by <i>in vitro</i> continuous amperometry and video imaging. <i>Journal of Physiology</i> , 2007, 584, 819-834.	1.3	38
82	Drug effects on the electrochemical detection of norepinephrine with carbon fiber and diamond microelectrodes. <i>Journal of Electroanalytical Chemistry</i> , 2009, 632, 20-29.	1.9	37
83	Characterization and Performance of a Zr/Ti Pretreatment Conversion Coating on AA2024-T3. <i>Journal of the Electrochemical Society</i> , 2015, 162, C279-C284.	1.3	37
84	Spectroelectrochemical responsiveness of a freestanding, boron-doped diamond, optically transparent electrode toward ferrocene. <i>Analytica Chimica Acta</i> , 2003, 500, 137-144.	2.6	36
85	Voltammetric Studies of Propranolol and Hydrochlorothiazide Oxidation in Standard and Synthetic Biological Fluids Using a Nitrogen-Containing Tetrahedral Amorphous Carbon (ta-C:N) Electrode. <i>Electrochimica Acta</i> , 2014, 143, 398-406.	2.6	36
86	The analysis of estrogenic compounds by flow injection analysis with amperometric detection using a boron-doped diamond electrode. <i>Talanta</i> , 2014, 126, 12-19.	2.9	35
87	Heterogeneous electron-transfer rate constants for ferrocene and ferrocene carboxylic acid at boron-doped diamond electrodes in a room temperature ionic liquid. <i>Electrochimica Acta</i> , 2013, 94, 49-56.	2.6	34
88	Effect of Deoxidation Pretreatment on the Corrosion Inhibition Provided by a Trivalent Chromium Process (TCP) Conversion Coating on AA2024-T3. <i>Journal of the Electrochemical Society</i> , 2014, 161, C246-C253.	1.3	34
89	Electrochemical activation of diamond microelectrodes: implications for the <i>in vitro</i> measurement of serotonin in the bowel. <i>Analyst</i> , 2014, 139, 3160-3166.	1.7	33
90	Aliphatic polyamine oxidation response variability and stability at boron-doped diamond thin-film electrodes as studied by flow-injection analysis. <i>Analytica Chimica Acta</i> , 2001, 440, 119-129.	2.6	31

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91	The Analysis of Chlorinated Phenol Solutions by Capillary Electrophoresis Coupled with Direct and Indirect Amperometric Detection Using a Boron-Doped Diamond Microelectrode. <i>Electroanalysis</i> , 2005, 17, 1160-1170.	1.5	31
92	Formation and Structure of Trivalent Chromium Process Coatings on Aluminum Alloys 6061 and 7075. <i>Corrosion</i> , 2013, 69, 1205-1216.	0.5	31
93	Electrochemical formation of high surface area carbon fibers. <i>Analytical Chemistry</i> , 1991, 63, 517-519.	3.2	30
94	Dimensionally Stable Pt/Diamond Composite Electrodes in Concentrated H ₃ PO ₄ at High Temperature. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, E4.	2.2	30
95	TRPV1-mediated protection against endotoxin-induced hypotension and mortality in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1517-R1523.	0.9	30
96	Macrophage depletion lowers blood pressure and restores sympathetic nerve α 2-adrenergic receptor function in mesenteric arteries of DOCA-salt hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1186-H1197.	1.5	30
97	Structure and chemical composition of different variants of a commercial trivalent chromium process (TCP) coating on aluminum alloy 7075-T6. <i>Surface and Coatings Technology</i> , 2017, 315, 150-162.	2.2	29
98	CVD diamond anisotropic film as electrode for electrochemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 39-45.	4.0	28
99	Electrochemical monitoring of nitric oxide released by myenteric neurons of the guinea pig ileum. <i>Neurogastroenterology and Motility</i> , 2008, 20, 1243-1250.	1.6	28
100	Diamond-derived ultramicroelectrodes designed for electrochemical analysis and bioanalyte sensing. <i>Diamond and Related Materials</i> , 2008, 17, 900-905.	1.8	28
101	Boron-doped diamond nano microelectrodes for biosensing and in vitro measurements. <i>Frontiers in Bioscience - Scholar</i> , 2011, S3, 518-540.	0.8	28
102	Analysis of Ag(I) Biocide in Water Samples Using Anodic Stripping Voltammetry with a Boron-Doped Diamond Disk Electrode. <i>Analytical Chemistry</i> , 2018, 90, 6477-6485.	3.2	28
103	Electrochemical detection of peroxynitrite using hemin@PEDOT functionalized boron-doped diamond microelectrode. <i>Analyst</i> , 2016, 141, 1796-1806.	1.7	27
104	Fe-N-C Electrocatalysts for Oxygen Reduction Reaction Synthesized by Using Aniline Salt and Fe ³⁺ /H ₂ O ₂ Catalytic System. <i>Electrochimica Acta</i> , 2014, 146, 809-818.	2.6	26
105	Optically Transparent Diamond Electrode for Use in IR Transmission Spectroelectrochemical Measurements. <i>Analytical Chemistry</i> , 2007, 79, 7526-7533.	3.2	25
106	New Horizons in Spectroelectrochemical Measurements: Optically Transparent Carbon Electrodes. <i>Analytical Chemistry</i> , 2008, 80, 14-22.	3.2	25
107	Anodic fracturing and vacuum heat treated annealing of pitch-based carbon fibers. <i>Analytical Chemistry</i> , 1992, 64, 565-568.	3.2	24
108	Chapter 4 Electroanalytical applications of diamond electrodes. <i>Semiconductors and Semimetals</i> , 2004, 77, 121-148.	0.4	24

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109	The effect of the CH ₄ level on the morphology, microstructure, phase purity and electrochemical properties of carbon films deposited by microwave-assisted CVD from Ar-rich source gas mixtures. <i>Diamond and Related Materials</i> , 2009, 18, 1426-1434.	1.8	24
110	Visceral hypersensitivity in female but not in male serotonin transporter knockout rats. <i>Neurogastroenterology and Motility</i> , 2013, 25, e373-81.	1.6	24
111	Assessment of heterogeneous electron transfer rate constants for soluble redox analytes at tetrahedral amorphous carbon, boron-doped diamond, and glassy carbon electrodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2087-2098.	0.8	24
112	Effect of stellate ganglionectomy on basal cardiovascular function and responses to β_1 -adrenoceptor blockade in the rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H2447-H2454.	1.5	23
113	Electron Transfer Kinetics of Ferrocene at Microcrystalline Boron-Doped Diamond Electrodes: Effect of Solvent and Electrolyte. <i>Electroanalysis</i> , 2003, 15, 249-253.	1.5	22
114	Inhibitory neuromuscular transmission to ileal longitudinal muscle predominates in neonatal guinea pigs. <i>Neurogastroenterology and Motility</i> , 2010, 22, 909.	1.6	22
115	Alterations in sympathetic neuroeffector transmission to mesenteric arteries but not veins in DOCA-salt hypertension. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2010, 152, 11-20.	1.4	22
116	Sex-related differences in small intestinal transit and serotonin dynamics in high-fat diet-induced obesity in mice. <i>Experimental Physiology</i> , 2016, 101, 81-99.	0.9	22
117	Electrochemically modulated liquid chromatography using a boron-doped diamond particle stationary phase. <i>Journal of Chromatography A</i> , 2008, 1210, 154-159.	1.8	21
118	Amperometric Determination of Aminobiphenyls Using HPLC-ED with Boron-Doped Diamond Electrode. <i>Electroanalysis</i> , 2009, 21, 316-324.	1.5	21
119	Thermionic emission from surface-terminated nanocrystalline diamond. <i>Diamond and Related Materials</i> , 2006, 15, 1601-1608.	1.8	20
120	Oxidation Resistance of Bare and Pt-Coated Electrically Conducting Diamond Powder as Assessed by Thermogravimetric Analysis. <i>Journal of the Electrochemical Society</i> , 2010, 157, A19.	1.3	20
121	Isatin Detection Using a Boron-Doped Diamond 3-in-1 Sensing Platform. <i>Analytical Chemistry</i> , 2018, 90, 1951-1958.	3.2	20
122	Freestanding Diamond Thin Films Grown on Glassy Carbon Substrates. <i>Journal of the Electrochemical Society</i> , 1996, 143, L150-L153.	1.3	19
123	Rapid Preparation of Room Temperature Ionic Liquids with Low Water Content as Characterized with a C:N Electrode. <i>Journal of the Electrochemical Society</i> , 2015, 162, H507-H511.	1.3	19
124	Cardiac norepinephrine transporter protein expression is inversely correlated to chamber norepinephrine content. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R857-R863.	0.9	18
125	Equilibrium and Kinetic Behavior of Fe(CN) ₆ ^{3-/4-} and Cytochrome c in Direct Electrochemistry Using a Film Electrode Thin-Layer Transmission Cell. <i>Analytical Chemistry</i> , 2011, 83, 542-548.	3.2	18
126	Evaluation of a nitrogen-incorporated tetrahedral amorphous carbon thin film for the detection of tryptophan and tyrosine using flow injection analysis with amperometric detection. <i>Analyst</i> , 2016, 141, 6031-6041.	1.7	18

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127	Bilateral Carotid-Cavernous Fistula. <i>Journal of Neurosurgery</i> , 1954, 11, 323-326.	0.9	17
128	Modulation of an Induced Charge Density Gradient in the Room-Temperature Ionic Liquid BMIM ⁺ BF ₄ ⁻ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 7361-7367.	1.5	17
129	Characterizing the Magnitude and Structure-Dependence of Free Charge Density Gradients in Room-Temperature Ionic Liquids. <i>Langmuir</i> , 2020, 36, 3038-3045.	1.6	17
130	Preparation and Electrochemical Characterization of Carbon Paper Modified with a Layer of Boron-Doped Nanocrystalline Diamond. <i>Journal of the Electrochemical Society</i> , 2007, 154, K61.	1.3	16
131	Structure and Corrosion Performance of a Non-Chromium Process (NCP) Zr/Zn Pretreatment Conversion Coating on Aluminum Alloys. <i>Journal of the Electrochemical Society</i> , 2016, 163, C718-C728.	1.3	16
132	Anti-Corrosion Properties of a TCP Pretreatment Conversion Coating on Aluminum Alloy 2024-T3 during Moist SO ₂ Atmospheric Testing: Effects of Galvanic Coupling. <i>Journal of the Electrochemical Society</i> , 2017, 164, C135-C147.	1.3	16
133	Preparation and Characterization of Glassy Carbon Powder Modified with a Thin Layer of Boron-Doped Ultrananocrystalline Diamond (B-UNCD). <i>Chemistry of Materials</i> , 2009, 21, 2705-2713.	3.2	15
134	Differential serotonin transport is linked to the rh5-HTTLPR in peripheral blood cells. <i>Translational Psychiatry</i> , 2012, 2, e77-e77.	2.4	15
135	Effects of Film Morphology and Surface Chemistry on the Direct Electrochemistry of Cytochrome c at Boron-Doped Diamond Electrodes. <i>Electrochimica Acta</i> , 2016, 197, 129-138.	2.6	15
136	Cross comparison of TCP conversion coating performance on aluminum alloys during neutral salt-spray and thin-layer mist accelerated degradation testing. <i>Electrochimica Acta</i> , 2018, 282, 171-184.	2.6	15
137	Voltammetric and Amperometric Investigations of Azide Oxidation at the Basal Plane of Highly Oriented Pyrolytic Graphite. <i>Analytical Chemistry</i> , 1999, 71, 4603-4608.	3.2	14
138	Antioxidant treatment restores prejunctional regulation of purinergic transmission in mesenteric arteries of deoxycorticosterone acetate-salt hypertensive rats. <i>Neuroscience</i> , 2010, 168, 335-345.	1.1	14
139	A Pt-free Electrocatalyst Based on Pyrolyzed Vinazene-Carbon Composite for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2015, 161, 305-311.	2.6	14
140	Communication—Role of Trivalent Chromium on the Anti-Corrosion Properties of a TCP Conversion Coating on Aluminum Alloy 2024-T3. <i>Journal of the Electrochemical Society</i> , 2018, 165, C103-C105.	1.3	14
141	The electrochemical determination of isatin at nanocrystalline boron-doped diamond electrodes: Stress monitoring of animals. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127592.	4.0	14
142	Comments from the Editor-in-Chief. <i>Electroanalysis</i> , 2022, 34, 1-1.	1.5	14
143	Determination of endogenous norepinephrine levels in different chambers of the rat heart by capillary electrophoresis coupled with amperometric detection. <i>Journal of Neuroscience Methods</i> , 2007, 163, 52-59.	1.3	13
144	CE coupled with amperometric detection using a boron-doped diamond microelectrode: Validation of a method for endogenous norepinephrine analysis in tissue. <i>Electrophoresis</i> , 2008, 29, 441-447.	1.3	12

#	ARTICLE	IF	CITATIONS
145	Increased Catecholamine Secretion from Single Adrenal Chromaffin Cells in DOCA-Salt Hypertension Is Associated with Potassium Channel Dysfunction. <i>ACS Chemical Neuroscience</i> , 2013, 4, 1404-1413.	1.7	12
146	Local and Long-Range Organization in Room Temperature Ionic Liquids. <i>Langmuir</i> , 2021, 37, 605-615.	1.6	12
147	Optically Transparent Diamond Electrodes for UV-Vis and IR Spectroelectrochemistry. <i>Electrochemical Society Interface</i> , 2003, 12, 33-38.	0.3	12
148	Investigating the Nucleation and Growth of Electrodeposited Pt on Polycrystalline Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 2010, 157, F89.	1.3	11
149	Improvements in the formation of boron-doped diamond coatings on platinum wires using the novel nucleation process (NNP). <i>Diamond and Related Materials</i> , 2011, 20, 75-83.	1.8	11
150	The performance of a nitrogen-containing tetrahedral amorphous carbon electrode in flow injection analysis with amperometric detection. <i>Analytical Methods</i> , 2015, 7, 4481-4485.	1.3	11
151	Detection of H ₂ O ₂ from the Reduction of Dissolved Oxygen on TCP-Coated AA2024-T3 : Impact on the Transient Formation of Cr(VI). <i>Journal of the Electrochemical Society</i> , 2019, 166, C3284-C3289.	1.3	11
152	Conductive Diamond Powder: A New Catalyst Support for the Polymer Electrolyte Membrane Fuel Cell. <i>ECS Transactions</i> , 2006, 3, 27-36.	0.3	10
153	Charge-Induced Birefringence in a Room-Temperature Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2021, 125, 950-955.	1.2	10
154	Summary of Recent Progress with Diamond Electrodes in Electroanalysis, Spectroelectrochemistry and Electrocatalysis. <i>Journal of Wide Bandgap Materials</i> , 2001, 8, 171-188.	0.1	9
155	Postnatal development of the serotonin signaling system in the mucosa of the guinea pig ileum. <i>Neurogastroenterology and Motility</i> , 2011, 23, 161-e40.	1.6	9
156	Electrochemical Characterization of Different Variants of a Commercial Trivalent Chromium Process (TCP) Coating on Aluminum Alloy 7075-T6. <i>Corrosion</i> , 2018, 74, 50-65.	0.5	9
157	Effect of Surface Oxygen on the Wettability and Electrochemical Properties of Boron-Doped Nanocrystalline Diamond Electrodes in Room-Temperature Ionic Liquids. <i>Langmuir</i> , 2020, 36, 5717-5729.	1.6	9
158	Electrochemical Reduction of Oxygen at "Electrocoated" Nafion Modified Metal Carbon Composite and Platinum Electrodes. <i>Journal of the Electrochemical Society</i> , 1993, 140, 1026-1033.	1.3	8
159	Formation of a Crack-Free and Debonding-Resistant Boron-Doped Diamond Thin Film on Titanium Using a Dual-Coating Strategy. <i>Journal of the Electrochemical Society</i> , 2006, 153, B506.	1.3	8
160	Aliphatic Polyamine Oxidation Reaction Mechanism at Boron-Doped Microcrystalline and Ultrananocrystalline Diamond Electrodes. <i>Electroanalysis</i> , 2016, 28, 151-160.	1.5	8
161	Isatin Analysis Using Flow Injection Analysis with Amperometric Detection " Comparison of Tetrahedral Amorphous Carbon and Diamond Electrode Performance. <i>Electroanalysis</i> , 2017, 29, 2147-2154.	1.5	8
162	High surface area, low-weight composite nickel fiber electrodes. <i>Journal of Power Sources</i> , 1994, 47, 251-259.	4.0	7

#	ARTICLE	IF	CITATIONS
163	Fabrication and testing of a novel all-diamond neural probe for chemical detection and electrical sensing applications. , 2008, , .		7
164	Regional changes in cardiac and stellate ganglion norepinephrine transporter in DOCA salt hypertension. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 179, 99-107.	1.4	7
165	Synthesis of Nitrogen-Doped Carbon Nanotubes Using Injection-Vertical Chemical Vapor Deposition: Effects of Synthesis Parameters on the Nitrogen Content. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	1.5	7
166	Effect of Galvanic Current on the Physicochemical, Electrochemical and Mechanical Properties of an Aerospace Carbon Fiber Reinforced Epoxy Composite. <i>Journal of the Electrochemical Society</i> , 2017, 164, C881-C891.	1.3	7
167	An Electrochemical ATP Biosensor with Enzymes Entrapped within a PEDOT Film. <i>Electroanalysis</i> , 2021, 33, 495-505.	1.5	7
168	Strongly Coupled Redox-Linked Conformational Switching at the Active Site of the Non-Heme Iron-Dependent Dioxxygenase, TauD. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7785-7793.	1.2	6
169	Evaluation of a Trivalent Chromium Process (TCP) Conversion Coating on AA2024-T3 That Requires No Surface Pretreatment. <i>Journal of the Electrochemical Society</i> , 2019, 166, C589-C599.	1.3	4
170	Temperature dependence of the heterogeneous electron-transfer rate constant for ferrocene carboxylic acid in room temperature ionic liquids at microstructurally distinct carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2020, 875, 114744.	1.9	4
171	Investigation of the Trivalent Chromium Process Conversion Coating as a Sealant for Anodized AA2024-T3. <i>Journal of the Electrochemical Society</i> , 2020, 167, 111504.	1.3	4
172	Electrically Conducting Diamond Thin Films: Advanced Electrode Materials for Electrochemical Technologies. , 2003, , 181-277.		4
173	Inhibiting the Oxygen Reduction Reaction Kinetics on Carbon Fiber Epoxy Composites Through Diazonium Surface Modification-Impacts on the Galvanic Corrosion of Coupled Aluminum Alloys. <i>Journal of the Electrochemical Society</i> , 2022, 169, 071501.	1.3	4
174	HPLC-EC Analysis of Estrogenic Compounds: A Comparison of Diamond and Tetrahedral Amorphous Carbon Electrode Performance. <i>Electroanalysis</i> , 2018, 30, 1575-1582.	1.5	3
175	Detection of Pyocyanin with a Boron-Doped Diamond Electrode Using Flow Injection Analysis with Amperometric Detection and Square Wave Voltammetry. <i>Electroanalysis</i> , 2022, 34, 1902-1912.	1.5	3
176	Microstructural Stability of Electrically Conducting Diamond Powder as Probed Using Electrochemical Methods and In Situ Raman Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2011, 158, B1446.	1.3	2
177	Electrically Conducting Diamond Thin Films. <i>Electroanalytical Chemistry, A Series of Advances</i> , 2003, , .	1.7	2
178	<i>In vitro</i> electrochemical measurement of serotonin release in the human jejunum mucosa using a diamond microelectrode. <i>Analyst</i> , 2022, 147, 2523-2532.	1.7	2
179	Publisher's Note: Oxidation Resistance of Bare and Pt-Coated Electrically Conducting Diamond Powder as Assessed by Thermogravimetric Analysis [<i>J. Electrochem. Soc.</i> , 157, A19 (2010)]. <i>Journal of the Electrochemical Society</i> , 2010, 157, S7.	1.3	1
180	Sa1455 <i>Lactobacillus Reuteri</i> Treatment Reduces Visceral Hypersensitivity in Serotonin Transporter Knockout Rats. <i>Gastroenterology</i> , 2012, 142, S-310.	0.6	1

#	ARTICLE	IF	CITATIONS
181	Conducting diamond films in electrochemistry. , 0, , .		0
182	Thermionic Emission Energy Distributions From Nanocrystalline Diamond. , 2004, , 533.		0
183	Electrochemical Monitoring of Iodine and Its Disinfection By-Products with Diamond Thin-Film Electrodes. , 0, , .		0
184	Diamond Thin-Film Electrodes for Monitoring Heavy Metal Ions in Water Supplies Using Anodic Stripping Voltammetry. , 2005, , .		0
185	Postnatal Changes in Monoamine Transporter Function in the Guinea Pig Ileum. Gastroenterology, 2011, 140, S-520-S-521.	0.6	0
186	Corrosion Protection by Trivalent Chromium Process (TCP) Coatings On Aluminum Alloys During Atmospheric Testing. ECS Meeting Abstracts, 2013, , .	0.0	0
187	Electroanalytical Performance of Nitrogen-Containing Tetrahedral Amorphous Carbon Thin-Film Electrodes. ECS Meeting Abstracts, 2013, , .	0.0	0
188	Special Issue on "Nanocarbon Electrochemistry and Electroanalysis" Electroanalysis, 2016, 28, 2-2.	1.5	0
189	Effect of Laser Cleaning and Hyperpassivation on the Electrochemical Behavior of AA2024-T3. Journal of the Electrochemical Society, 2021, 168, 031501.	1.3	0
190	Impaired K ⁺ channel function leads to increased catecholamine secretion by adrenal chromaffin cells in DOCA-salt hypertension. FASEB Journal, 2012, 26, 843.3.	0.2	0
191	Detection of local serotonin release and clearance in the human small intestine using amperometry. FASEB Journal, 2013, 27, 1157.7.	0.2	0
192	Sex Differences in Jejunal Mucosal 5-HT (serotonin) Availability in a Diet-Induced Obesity (DIO) Mouse Model. FASEB Journal, 2015, 29, 848.5.	0.2	0
193	Structure, Electronic Properties and Electrochemical Behavior of a Boron-Doped Diamond/Quartz Optically Transparent Electrode. ECS Meeting Abstracts, 2016, , .	0.0	0
194	Electrochemical and Spectroelectrochemical Determination of Stress Biomarker Isatin on Optically Transparent Boron-Doped Diamond Electrodes. ECS Meeting Abstracts, 2016, , .	0.0	0
195	Effectiveness of a TCP Conversion Coating at Inhibiting Corrosion on AA2024-T3 during so2 Atmospheric Testing. ECS Meeting Abstracts, 2016, , .	0.0	0
196	Direct and Mediated Spectro-Electrochemistry of Highly Oxidized Heme Species in Horseradish Peroxidase. ECS Meeting Abstracts, 2018, , .	0.0	0
197	(Keynote) Use of Conducting Metal Oxides to Modulate Charge Density Gradients in Ionic Liquids. ECS Meeting Abstracts, 2019, , .	0.0	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