

Greg M Swain

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178
papers

9,147
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h-index

89
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216
ext. papers

9,779
ext. citations

5.3
avg, IF

6.2
L-index

#	Paper	IF	Citations
178	Standard electrochemical behavior of high-quality, boron-doped polycrystalline diamond thin-film electrodes. <i>Analytical Chemistry</i> , 2000 , 72, 3793-804	7.8	361
177	The electrochemical activity of boron-doped polycrystalline diamond thin film electrodes. <i>Analytical Chemistry</i> , 1993 , 65, 345-351	7.8	348
176	Electrochemistry and the environment. <i>Journal of Applied Electrochemistry</i> , 1994 , 24, 1077	2.6	318
175	Conductive diamond thin-films in electrochemistry. <i>Diamond and Related Materials</i> , 2003 , 12, 1940-1949	3.5	270
174	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	3.9	216
173	Peer Reviewed: Boron-Doped Diamond Thin-Film Electrodes. <i>Analytical Chemistry</i> , 1997 , 69, 591A-597A	7.8	212
172	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	7.8	210
171	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	3.9	201
170	Conductive diamond: synthesis, properties, and electrochemical applications. <i>Chemical Society Reviews</i> , 2019 , 48, 157-204	58.5	197
169	Activation of colonic mucosal 5-HT(4) receptors accelerates propulsive motility and inhibits visceral hypersensitivity. <i>Gastroenterology</i> , 2012 , 142, 844-854.e4	13.3	189
168	Applications of Diamond Thin Films in Electrochemistry. <i>MRS Bulletin</i> , 1998 , 23, 56-60	3.2	181
167	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	6.6	178
166	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	3.4	166
165	Electrochemical performance of diamond thin-film electrodes from different commercial sources. <i>Analytical Chemistry</i> , 2004 , 76, 2553-60	7.8	161
164	Cyclic Voltammetric Studies of Charge Transfer Reactions at Highly Boron-Doped Polycrystalline Diamond Thin-Film Electrodes. <i>Analytical Chemistry</i> , 1995 , 67, 2812-2821	7.8	154
163	Characterization and Electrochemical Responsiveness of Boron-Doped Nanocrystalline Diamond Thin-Film Electrodes. <i>Chemistry of Materials</i> , 2003 , 15, 879-888	9.6	146
162	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, 180-9	6.6	142

161	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	3.9	131
160	Electrochemical Modification of Boron-Doped Chemical Vapor Deposited Diamond Surfaces with Covalently Bonded Monolayers. <i>Electrochemical and Solid-State Letters</i> , 1999 , 2, 288		127
159	Electrochemical Oxidation of Polyamines at Diamond Thin-Film Electrodes. <i>Analytical Chemistry</i> , 1999 , 71, 1188-1195	7.8	111
158	Enhanced Signal-to-Background Ratios in Voltammetric Measurements Made at Diamond Thin-Film Electrochemical Interfaces. <i>Analytical Chemistry</i> , 1996 , 68, 2031-7	7.8	107
157	Oxidation of Azide Anion at Boron-Doped Diamond Thin-Film Electrodes. <i>Analytical Chemistry</i> , 1998 , 70, 1502-1510	7.8	105
156	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, 2412-20	7.8	103
155	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	3.9	98
154	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	6.6	96
153	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	3.9	96
152	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, 3674-82	10.3	91
151	Boron-doped diamond microelectrodes for use in capillary electrophoresis with electrochemical detection. <i>Analytical Chemistry</i> , 2003 , 75, 2678-87	7.8	88
150	Diamond electrodes: Diversity and maturity. <i>MRS Bulletin</i> , 2014 , 39, 525-532	3.2	87
149	Flow Injection Analysis with Diamond Thin-Film Detectors. <i>Analytical Chemistry</i> , 1997 , 69, 4099-4107	7.8	87
148	In vitro continuous amperometric monitoring of 5-hydroxytryptamine release from enterochromaffin cells of the guinea pig ileum. <i>Analyst, The</i> , 2007 , 132, 41-7	5	87
147	Fabrication and Evaluation of Platinum/Diamond Composite Electrodes for Electrocatalysis. <i>Journal of the Electrochemical Society</i> , 2003 , 150, E24	3.9	87
146	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	3.5	86
145	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	6.6	85
144	The use of CVD diamond thin films in electrochemical systems. <i>Advanced Materials</i> , 1994 , 6, 388-392	24	83

143	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	9.6	82
142	Effect of underpotential deposition (UPD) of copper on oxygen reduction at Pt(111) surfaces. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 382, 73-83	4.1	81
141	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	3.9	79
140	Diamond microelectrodes for use in biological environments. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 583, 56-68	4.1	78
139	Direct electrochemistry of cytochrome C at nanocrystalline boron-doped diamond. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10634-5	16.4	75
138	In situ pH measurement during the formation of conversion coatings on an aluminum alloy (AA2024). <i>Analyst, The</i> , 2013 , 138, 4398-402	5	72
137	Preparation and Characterization of Boron-Doped Diamond Powder. <i>Journal of the Electrochemical Society</i> , 2005 , 152, B369	3.9	70
136	Nanocarbon Electrochemistry and Electroanalysis: Current Status and Future Perspectives. <i>Electroanalysis</i> , 2016 , 28, 27-34	3	68
135	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	3.9	67
134	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, 6542-8	7.8	67
133	High mucosal serotonin availability in neonatal guinea pig ileum is associated with low serotonin transporter expression. <i>Gastroenterology</i> , 2007 , 132, 2438-47	13.3	63
132	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	3.9	62
131	Optical and electrochemical properties of optically transparent, boron-doped diamond thin films deposited on quartz. <i>Analytical Chemistry</i> , 2002 , 74, 5924-30	7.8	62
130	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	3.5	61
129	Structural Characterization, Electrochemical Reactivity, and Response Stability of Hydrogenated Glassy Carbon Electrodes. <i>Langmuir</i> , 1998 , 14, 7017-7026	4	61
128	Electrochemical and Surface Structural Characterization of Hydrogen Plasma Treated Glassy Carbon Electrodes. <i>Langmuir</i> , 1996 , 12, 6578-6586	4	61
127	Electrodeposition of Metal Adlayers on Boron-Doped Diamond Thin-Film Electrodes. <i>Journal of the Electrochemical Society</i> , 1995 , 142, L42-L45	3.9	59
126	Electroanalytical performance of nitrogen-containing tetrahedral amorphous carbon thin-film electrodes. <i>Analytical Chemistry</i> , 2012 , 84, 6240-8	7.8	58

125	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, 6756-64	7.8	58
124	Diamond microelectrodes for in vitro electroanalytical measurements: current status and remaining challenges. <i>Analyst, The</i> , 2008 , 133, 17-24	5	56
123	Diamond-derived microelectrodes array for electrochemical analysis. <i>Diamond and Related Materials</i> , 2004 , 13, 2009-2015	3.5	56
122	A Confocal Raman Imaging Study of an Optically Transparent Boron-Doped Diamond Electrode. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10816-10827	3.4	55
121	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	3.9	51
120	Diamond optically transparent electrodes: demonstration of concept with ferri/ferrocyanide and methyl viologen. <i>Analytical Chemistry</i> , 2001 , 73, 908-14	7.8	49
119	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	3.5	48
118	Incorporation of Pt Particles in Boron-Doped Diamond Thin Films Applications in Electrocatalysis. <i>Electrochemical and Solid-State Letters</i> , 1999 , 3, 286		47
117	Boron-Doped Diamond Microelectrodes Reveal Reduced Serotonin Uptake Rates in Lymphocytes from Adult Rhesus Monkeys Carrying the Short Allele of the 5-HTTLPR. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 49-64	5.7	45
116	In-situ scanning tunneling microscopy of well-ordered Rh(111) electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 381, 105-111	4.1	45
115	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, R1262-7	3.2	44
114	Pulsed Galvanostatic Deposition of Pt Particles on Microcrystalline and Nanocrystalline Diamond Thin-Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2005 , 152, E184	3.9	43
113	Deletion of transient receptor potential vanilloid type 1 receptors exaggerates renal damage in deoxycorticosterone acetate-salt hypertension. <i>Hypertension</i> , 2008 , 52, 264-70	8.5	42
112	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	3.8	41
111	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, 7923-30	9.5	40
110	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	3.9	40
109	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	3.9	38
108	Boron doped diamond deposited by microwave plasma-assisted CVD at low and high pressures. <i>Diamond and Related Materials</i> , 2008 , 17, 481-485	3.5	38

107	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	4.1	37
106	The Electrochemical Properties of Nanocrystalline Diamond Thin-Films Deposited from C60/Argon and Methane/Nitrogen Gas Mixtures. <i>Electroanalysis</i> , 2000 , 12, 7-15	3	37
105	Solid Electrode Materials 2007 , 111-153		35
104	Mild electrocatalytic hydrogenation of lactic acid to lactaldehyde and propylene glycol. <i>Journal of Catalysis</i> , 2007 , 246, 15-28	7.3	34
103	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	3.8	33
102	Drug effects on the electrochemical detection of norepinephrine with carbon fiber and diamond microelectrodes. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 632, 20-29	4.1	33
101	Differences in sympathetic neuroeffector transmission to rat mesenteric arteries and veins as probed by in vitro continuous amperometry and video imaging. <i>Journal of Physiology</i> , 2007 , 584, 819-34	3.9	32
100	Charge-Induced Long-Range Order in a Room-Temperature Ionic Liquid. <i>Langmuir</i> , 2016 , 32, 9507-12	4	29
99	The analysis of estrogenic compounds by flow injection analysis with amperometric detection using a boron-doped diamond electrode. <i>Talanta</i> , 2014 , 126, 12-9	6.2	29
98	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	6.7	29
97	TRPV1-mediated protection against endotoxin-induced hypotension and mortality in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R1517-23	3.2	29
96	Spectroelectrochemical responsiveness of a freestanding, boron-doped diamond, optically transparent electrode toward ferrocene. <i>Analytica Chimica Acta</i> , 2003 , 500, 137-144	6.6	29
95	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	9.5	28
94	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	6.7	28
93	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	3	28
92	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		28
91	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	7.8	27
90	Electrochemical activation of diamond microelectrodes: implications for the in vitro measurement of serotonin in the bowel. <i>Analyst, The</i> , 2014 , 139, 3160-6	5	27

89	Characterization and Performance of a Zr/Ti Pretreatment Conversion Coating on AA2024-T3. <i>Journal of the Electrochemical Society</i> , 2015 , 162, C279-C284	3.9	27
88	Diamond-derived ultramicroelectrodes designed for electrochemical analysis and bioanalyte sensing. <i>Diamond and Related Materials</i> , 2008 , 17, 900-905	3.5	27
87	CVD diamond anisotropic film as electrode for electrochemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2003 , 91, 39-45	8.5	26
86	Formation and Structure of Trivalent Chromium Process Coatings on Aluminum Alloys 6061 and 7075. <i>Corrosion</i> , 2013 , 69, 1205-1216	1.8	25
85	Electrochemical monitoring of nitric oxide released by myenteric neurons of the guinea pig ileum. <i>Neurogastroenterology and Motility</i> , 2008 , 20, 1243-50	4	25
84	Electrochemical detection of peroxynitrite using hemin-PEDOT functionalized boron-doped diamond microelectrode. <i>Analyst, The</i> , 2016 , 141, 1796-806	5	24
83	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	6.7	24
82	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	3.9	24
81	Macrophage depletion lowers blood pressure and restores sympathetic nerve α -adrenergic receptor function in mesenteric arteries of DOCA-salt hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H1186-97	5.2	24
80	Electrochemical formation of high surface area carbon fibers. <i>Analytical Chemistry</i> , 1991 , 63, 517-519	7.8	24
79	New horizons in spectroelectrochemical measurements: optically transparent carbon electrodes. <i>Analytical Chemistry</i> , 2008 , 80, 14-22	7.8	23
78	Chapter 4 Electroanalytical applications of diamond electrodes. <i>Semiconductors and Semimetals</i> , 2004 , 77, 121-148	0.6	23
77	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	6.6	23
76	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	3.5	22
75	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	4.4	21
74	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	2.4	21
73	Boron-doped diamond nano/microelectrodes for biosensing and in vitro measurements. <i>Frontiers in Bioscience - Scholar</i> , 2011 , 3, 518-40	2.4	20
72	Amperometric Determination of Aminobiphenyls Using HPLC-ED with Boron-Doped Diamond Electrode. <i>Electroanalysis</i> , 2009 , 21, 316-324	3	20

71	Effect of stellate ganglionectomy on basal cardiovascular function and responses to beta1-adrenoceptor blockade in the rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H2447-54	5.2	20
70	Thermionic emission from surface-terminated nanocrystalline diamond. <i>Diamond and Related Materials</i> , 2006 , 15, 1601-1608	3.5	20
69	Electron Transfer Kinetics of Ferrocene at Microcrystalline Boron-Doped Diamond Electrodes: Effect of Solvent and Electrolyte. <i>Electroanalysis</i> , 2003 , 15, 249-253	3	20
68	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	3.9	19
67	Electrochemically modulated liquid chromatography using a boron-doped diamond particle stationary phase. <i>Journal of Chromatography A</i> , 2008 , 1210, 154-9	4.5	19
66	Anodic fracturing and vacuum heat treated annealing of pitch-based carbon fibers. <i>Analytical Chemistry</i> , 1992 , 64, 565-568	7.8	19
65	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	2.4	19
64	Inhibitory neuromuscular transmission to ileal longitudinal muscle predominates in neonatal guinea pigs. <i>Neurogastroenterology and Motility</i> , 2010 , 22, 909-18, e236-7	4	18
63	Optically transparent diamond electrode for use in ir transmission spectroelectrochemical measurements. <i>Analytical Chemistry</i> , 2007 , 79, 7526-33	7.8	18
62	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	7.8	18
61	Isatin Detection Using a Boron-Doped Diamond 3-in-1 Sensing Platform. <i>Analytical Chemistry</i> , 2018 , 90, 1951-1958	7.8	17
60	Visceral hypersensitivity in female but not in male serotonin transporter knockout rats. <i>Neurogastroenterology and Motility</i> , 2013 , 25, e373-81	4	17
59	Freestanding Diamond Thin Films Grown on Glassy Carbon Substrates. <i>Journal of the Electrochemical Society</i> , 1996 , 143, L150-L153	3.9	17
58	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, R857-63	3.2	17
57	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, 542-8	7.8	16
56	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, The</i> , 2016 , 141, 6031-6041	5	15
55	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	1.6	15
54	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	9.6	15

53	Differential serotonin transport is linked to the rh5-HTTLPR in peripheral blood cells. <i>Translational Psychiatry</i> , 2012 , 2, e77	8.6	15
52	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	3.9	15
51	Rapid Preparation of Room Temperature Ionic Liquids with Low Water Content as Characterized with a ta-C:N Electrode. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H507-H511	3.9	14
50	Antioxidant treatment restores prejunctional regulation of purinergic transmission in mesenteric arteries of deoxycorticosterone acetate-salt hypertensive rats. <i>Neuroscience</i> , 2010 , 168, 335-45	3.9	14
49	Bilateral carotid-cavernous fistula. <i>Journal of Neurosurgery</i> , 1954 , 11, 323-6	3.2	14
48	Voltammetric and Amperometric Investigations of Azide Oxidation at the Basal Plane of Highly Oriented Pyrolytic Graphite. <i>Analytical Chemistry</i> , 1999 , 71, 4603-4608	7.8	13
47	Exhaled breath biomarker sensing. <i>Biosensors and Bioelectronics</i> , 2021 , 182, 113193	11.8	13
46	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, 52-9	3	12
45	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	3.9	11
44	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	3.2	11
43	Characterizing the Magnitude and Structure-Dependence of Free Charge Density Gradients in Room-Temperature Ionic Liquids. <i>Langmuir</i> , 2020 , 36, 3038-3045	4	11
42	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	6.7	11
41	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	3.8	11
40	Effects of Film Morphology and Surface Chemistry on the Direct Electrochemistry of Cytochrome c on Boron-Doped Diamond Electrodes. <i>Electrochimica Acta</i> , 2016 , 197, 129-138	6.7	11
39	A Pt-free Electrocatalyst Based on Pyrolyzed Vinazene-Carbon Composite for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2015 , 161, 305-311	6.7	10
38	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	3.9	10
37	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	3.5	10
36	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, 441-7	3.6	10

35	Optically Transparent Diamond Electrodes for UV-Vis and IR Spectroelectrochemistry. <i>Electrochemical Society Interface</i> , 2003 , 12, 33-38	3.6	10
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