

Boron-Doped Diamond Film Electrodes – New Tool for Organic Substances

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Voltammetric detection of damage to DNA caused by nitro derivatives of fluorene using an electrochemical DNA biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 233-241.	3.7	46
2	The continuing development of Magn ⁺ Li phase titanium sub-oxides and Ebonex [®] electrodes. <i>Electrochimica Acta</i> , 2010, 55, 6342-6351.	5.2	286
3	Simultaneous Differential Pulse Voltammetric Determination of Ascorbic Acid and Caffeine in Pharmaceutical Formulations Using a Boron-Doped Diamond Electrode. <i>Electroanalysis</i> , 2010, 22, 1717-1723.	2.9	59
4	Metal Nanoparticle Modified Boron Doped Diamond Electrodes for Use in Electroanalysis. <i>Electroanalysis</i> , 2010, 22, 1947-1956.	2.9	68
5	Voltammetric Determination of Genotoxic Nitro Derivatives of Fluorene and 9-Fluorenone Using a Mercury Meniscus Modified Silver Solid Amalgam Electrode. <i>Electroanalysis</i> , 2010, 22, 2034-2042.	2.9	25
6	Electrochemical Behavior and Electroanalytical Determination of Indole-3-Acetic Acid Phytohormone on a Boron-Doped Diamond Electrode. <i>Electroanalysis</i> , 2011, 23, 667-673.	2.9	10
7	A comparative evaluation on the voltammetric behavior of boron-doped diamond (BDD) and glassy carbon (GC) electrodes in different electrolyte media. <i>Journal of Electroanalytical Chemistry</i> , 2010, 642, 69-74.	3.8	17
8	Glassy carbon electrodes modified with a film of nanodiamond-graphite/chitosan: Application to the highly sensitive electrochemical determination of Azathioprine. <i>Electrochimica Acta</i> , 2010, 55, 3621-3627.	5.2	75
9	Simple Flow Injection Analysis System for Simultaneous Determination of Phenolic Antioxidants with Multiple Pulse Amperometric Detection at a Boron-Doped Diamond Electrode. <i>Analytical Chemistry</i> , 2010, 82, 8658-8663.	6.5	89
10	Nitrogen-doped diamond-like carbon as optically transparent electrode for infrared attenuated total reflection spectroelectrochemistry. <i>Analyst</i> , 2011, 136, 1831.	3.5	29
11	Voltammetric determination of 6-nitrobenzimidazole in the presence of surfactants. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 1317-1325.	1.0	4
12	Voltammetric behavior of benzo[a]pyrene at boron-doped diamond electrode: A study of its determination by adsorptive transfer stripping voltammetry based on the enhancement effect of anionic surfactant, sodium dodecylsulfate. <i>Talanta</i> , 2011, 85, 441-448.	5.5	52
13	Boron-doped diamond nano microelectrodes for biosensing and in vitro measurements. <i>Frontiers in Bioscience - Scholar</i> , 2011, S3, 518-540.	2.1	28
15	Electrochemical degradation of a real textile effluent using boron-doped diamond or PbO_2 as anode. <i>Journal of Hazardous Materials</i> , 2011, 192, 1275-1282.	12.4	119
16	Relative deactivation of boron-doped diamond (BDD) and glassy carbon (GC) electrodes in different electrolyte media containing substituted phenols - Voltammetric and surface morphologic studies. <i>Journal of Electroanalytical Chemistry</i> , 2011, 655, 103-110.	3.8	20
17	Voltammetric Determination of Selected Nitro Compounds at a Polished Silver Solid Amalgam Composite Electrode. <i>Electroanalysis</i> , 2011, 23, 129-139.	2.9	55
18	Determination of Nitrophenols in Drinking and River Water by Differential Pulse Voltammetry at Boron-Doped Diamond Film Electrode. <i>Electroanalysis</i> , 2011, 23, 1236-1244.	2.9	30
19	Voltammetric Determination of 4-Nitrophenol and 5-Nitrobenzimidazole Using Different Types of Silver Solid Amalgam Electrodes - A Comparative Study. <i>Electroanalysis</i> , 2011, 23, 1548-1555.	2.9	23

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21	Sensitive Detection of Capsaicin by Adsorptive Stripping Voltammetry at a Boron-Doped Diamond Electrode in the Presence of Sodium Dodecylsulfate. <i>Electroanalysis</i> , 2011, 23, 2491-2497.	2.9	86
22	A Simple Strategy for Simultaneous Determination of Paracetamol and Caffeine Using Flow Injection Analysis with Multiple Pulse Amperometric Detection. <i>Electroanalysis</i> , 2011, 23, 2764-2770.	2.9	46
23	A novel paste electrode based on a silver solid amalgam and an organic pasting liquid. <i>Journal of Electroanalytical Chemistry</i> , 2011, 656, 218-222.	3.8	28
24	Electrochemistry of Pesticides and its Analytical Applications. <i>Current Organic Chemistry</i> , 2011, 15, 2923-2935.	1.6	50
25	Composite Solid Electrodes - Tool for Organic Electrochemistry. <i>Current Organic Chemistry</i> , 2011, 15, 2996-3013.	1.6	18
26	Boron Doped Diamond Microelectrodes and Microelectrode Arrays in Organic Electrochemistry. <i>Current Organic Chemistry</i> , 2011, 15, 3014-3028.	1.6	59
27	Electroanalysis of Nitro and Amino Derivatives of Polycyclic Aromatic Hydrocarbons. <i>Current Organic Chemistry</i> , 2011, 15, 3059-3076.	1.6	60
28	Utilization of electrochemical methods in determination of trace elements in beverages. <i>Acta Chimica Slovaca</i> , 2012, 5, 42-46.	0.8	7
29	Voltammetric Determination of Dinitronaphthalenes Using a Silver Solid Amalgam Paste Electrode. <i>Analytical Sciences</i> , 2012, 28, 411-415.	1.6	5
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31	The adsorption of quinizarin on boron-doped diamond. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2375.	2.8	11
32	Flow injection simultaneous determination of synthetic colorants in food using multiple pulse amperometric detection with a boron-doped diamond electrode. <i>Talanta</i> , 2012, 99, 883-889.	5.5	67
33	Voltammetric determination of caffeine in beverage samples on bare boron-doped diamond electrode. <i>Food Chemistry</i> , 2012, 135, 1198-1204.	8.2	115
34	Direct electrochemistry of tyrosinase and biosensing for phenol based on gold nanoparticles electrodeposited on a boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2012, 25, 128-133.	3.9	62
36	Voltammetric determination of penicillin V in pharmaceutical formulations and human urine using a boron-doped diamond electrode. <i>Bioelectrochemistry</i> , 2012, 88, 36-41.	4.6	49
37	Electrochemical determination of bisphenol A using a boron-doped diamond electrode. <i>Electrochimica Acta</i> , 2012, 82, 3-8.	5.2	95
38	Bismuth film electrode at a silver solid amalgam substrate as a new tool for voltammetric determination of electrochemically reducible organic compounds. <i>Talanta</i> , 2012, 102, 68-74.	5.5	21

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39	Determination of 1-hydroxypyrene in human urine by HPLC with electrochemical detection at a boron-doped diamond film electrode. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 693-699.	3.7	17
40	Simultaneous detection of ascorbic acid and dopamine with electrochemically pretreated carbon nitride electrodes: Comparison with boron-doped diamond electrodes. <i>Electrochemistry Communications</i> , 2012, 24, 61-64.	4.7	31
41	Simultaneous Determination of Caffeine and Acetylsalicylic Acid in Pharmaceutical Formulations Using a Boron-Doped Diamond Film Electrode by Differential Pulse Voltammetry. <i>Electroanalysis</i> , 2012, 24, 1141-1146.	2.9	35
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43	Analysis and Antioxidant Capacity of Anthocyanin Pigments. Part II: Chemical Structure, Color, and Intake of Anthocyanins. <i>Critical Reviews in Analytical Chemistry</i> , 2012, 42, 126-151.	3.5	189
44	Electrochemical Behavior of Chlorogenic Acid at a Boron-Doped Diamond Electrode and Estimation of the Antioxidant Capacity in the Coffee Samples Based on Its Oxidation Peak. <i>Journal of Food Science</i> , 2012, 77, C408-13.	3.1	44
45	Simultaneous determination of paracetamol and penicillin V by square-wave voltammetry at a bare boron-doped diamond electrode. <i>Electrochimica Acta</i> , 2012, 68, 227-234.	5.2	95
46	Voltammetric and amperometric determination of metoclopramide on boron-doped diamond film electrode. <i>Open Chemistry</i> , 2012, 10, 1310-1317.	1.9	6
47	Thin-Layer and Wall-Jet Arrangement of Amperometric Detector with Boron-Doped Diamond Electrode: Comparison of Amperometric Determination of Aminobiphenyls in HPLC-ED. <i>Electroanalysis</i> , 2012, 24, 649-658.	2.9	15
48	Voltammetric behavior of rutin at a boron-doped diamond electrode. Its electroanalytical determination in a pharmaceutical formulation. <i>Open Chemistry</i> , 2013, 11, 1674-1681.	1.9	9
49	Fast and simultaneous determination of nimesulide and paracetamol by batch injection analysis with amperometric detection on bare boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2013, 39, 41-46.	3.9	59
50	Evaluation of boron-doped diamond electrode for simultaneous voltammetric determination of hydrochlorothiazide and losartan in pharmaceutical formulations. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 263-270.	7.8	62
51	Amorphous carbon nitride as an alternative electrode material in electroanalysis: Simultaneous determination of dopamine and ascorbic acid. <i>Analytica Chimica Acta</i> , 2013, 797, 30-39.	5.4	45
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55	Voltammetric and Amperometric Determination of Mixtures of Aminobiphenyls and Aminonaphthalenes Using Boron Doped Diamond Electrode. <i>Electroanalysis</i> , 2013, 25, 253-262.	2.9	24
56	Voltammetric determination of mixtures of caffeine and chlorogenic acid in beverage samples using a boron-doped diamond electrode. <i>Talanta</i> , 2013, 116, 1010-1017.	5.5	81

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57	Electrochemical sensing and biosensing based on square wave voltammetry. <i>Analytical Methods</i> , 2013, 5, 2158.	2.7	154
58	Boron-Doped Diamond Electrodes for the Electrochemical Oxidation and Cleavage of Peptides. <i>Analytical Chemistry</i> , 2013, 85, 6626-6632.	6.5	53
59	Square-wave voltammetric determination of bezafibrate in pharmaceutical formulations using a cathodically pretreated boron-doped diamond electrode. <i>Talanta</i> , 2013, 103, 201-206.	5.5	35
60	Simultaneous Square-Wave Voltammetric Determination of Paracetamol, Caffeine and Orphenadrine in Pharmaceutical Formulations Using a Cathodically Pretreated Boron-Doped Diamond Electrode. <i>Electroanalysis</i> , 2013, 25, 1734-1741.	2.9	59
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62	Nanodiamond Decorated with Silver Nanoparticles as a Sensitive Film Modifier in a Jeweled Electrochemical Sensor: Application to Voltammetric Determination of Thioridazine. <i>Electroanalysis</i> , 2013, 25, 417-425.	2.9	34
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64	Voltammetric Determination of an Antihypertensive Agent Phentolamine at BDDE in the Presence of Surfactants. <i>Journal of the Electrochemical Society</i> , 2014, 161, H780-H786.	2.9	6
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74	Recent updates on electrochemical degradation of bio-refractory organic pollutants using BDD anode: a mini review. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8417-8431.	5.3	93

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76	Voltammetric determination of 2-amino-6-nitrobenzothiazole and 5-nitrobenzimidazole using a silver solid amalgam electrode modified by a microcrystalline natural graphite/polystyrene composite film. <i>Journal of Electroanalytical Chemistry</i> , 2014, 717-718, 237-242.	3.8	13
77	Sensitive and Rapid Voltammetric Determination of Phenothiazine and Azaphenothiazine Derivatives in Pharmaceuticals Using a Boron-doped Diamond Electrode. <i>Analytical Sciences</i> , 2015, 31, 961-969.	1.6	12
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81	Rapid Electroanalytical Method for Determination of Nebivolol at a Boron-Doped Diamond Electrode. <i>Journal of AOAC INTERNATIONAL</i> , 2015, 98, 1535-1541.	1.5	10
82	Sensitive voltammetric method for rapid determination of pyridine herbicide triclopyr on bare boron-doped diamond electrode. <i>Electrochimica Acta</i> , 2015, 154, 421-429.	5.2	32
83	Multidimensional carbon allotropes as electrochemical detectors in capillary and microchip electrophoresis. <i>Electrophoresis</i> , 2015, 36, 179-194.	2.4	48
84	Optical and electrical properties of ultrathin transparent nanocrystalline boron-doped diamond electrodes. <i>Optical Materials</i> , 2015, 42, 24-34.	3.6	46
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86	Simultaneous determination of antihypertensive drugs by flow injection analysis using multiple pulse amperometric detection with a cathodically pretreated boron-doped diamond electrode. <i>Journal of Electroanalytical Chemistry</i> , 2015, 754, 154-159.	3.8	23
87	Voltammetric determination of wedelolactone, an anti-HIV herbal drug, at boron-doped diamond electrode. <i>Journal of Chemical Sciences</i> , 2015, 127, 959-966.	1.5	5
88	Square-wave voltammetric determination of fungicide fenfuram in real samples on bare boron-doped diamond electrode, and its corrosion properties on stainless steels used to produce agricultural tools. <i>Electrochimica Acta</i> , 2015, 169, 117-125.	5.2	20
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91	Voltammetric determination of harmaline in natural food products using boron-doped diamond electrode. <i>Journal of Electroanalytical Chemistry</i> , 2015, 744, 37-44.	3.8	39
92	Doping Level of Boron-Doped Diamond Electrodes Controls the Grafting Density of Functional Groups for DNA Assays. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18949-18956.	8.0	53

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95	Electroanalytical application of a boron-doped diamond electrode: Improving the simultaneous voltammetric determination of amlodipine and valsartan in urine and combined dosage forms. <i>Journal of Electroanalytical Chemistry</i> , 2015, 738, 188-194.	3.8	42
97	Boron doped diamond microelectrodes arrays for electrochemical detection in HPLC. <i>Talanta</i> , 2015, 132, 641-647.	5.5	20
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100	Continuous and selective measurement of oxytocin and vasopressin using boron-doped diamond electrodes. <i>Scientific Reports</i> , 2016, 6, 32429.	3.3	33
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102	Voltammetric behavior, quantitative determination, and corrosion investigation of herbicide bromacil. <i>Journal of Electroanalytical Chemistry</i> , 2016, 770, 6-13.	3.8	10
103	Analytical methodologies using carbon substrates developed by pyrolysis. <i>Analytical Methods</i> , 2016, 8, 4163-4176.	2.7	16
104	Electrochemical study of 4-chloro-3-methylphenol on anodically pretreated boron-doped diamond electrode in the absence and presence of a cationic surfactant. <i>Journal of Electroanalytical Chemistry</i> , 2016, 771, 1-9.	3.8	62
105	Sensitive and selective determination of riboflavin (vitamin B2) based on boron-doped diamond electrode. <i>Monatshefte für Chemie</i> , 2016, 147, 995-1000.	1.8	20
106	High sensitivity and specificity simultaneous determination of lead, cadmium and copper using H_2PAD with dual electrochemical and colorimetric detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 540-549.	7.8	113
107	Assessments of the Effect of Increasingly Severe Cathodic Pretreatments on the Electrochemical Activity of Polycrystalline Boron-Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 2016, 88, 5363-5368.	6.5	57
108	Electrochemical mineralization of norfloxacin using distinct boron-doped diamond anodes in a filter-press reactor, with investigations of toxicity and oxidation by-products. <i>Electrochimica Acta</i> , 2016, 213, 856-864.	5.2	58
109	Diamond-coated "black silicon" as a promising material for high-surface-area electrochemical electrodes and antibacterial surfaces. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5737-5746.	5.8	86
110	Electrochemical Protein Cleavage in a Microfluidic Cell with Integrated Boron Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 2016, 88, 9190-9198.	6.5	16
111	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> , The, 2016, 141, 6031-6041.	3.5	18
112	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.	1.8	24

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114	Surface and electrochemical characterization of boron-doped diamond electrodes prepared under different conditions. <i>Monatshefte Fr Chemie</i> , 2016, 147, 1353-1364.	1.8	14
115	Sensitive voltammetric determination of herbicide terbutryn using solid electrodes based on silver amalgam and boron-doped diamond. <i>Monatshefte Fr Chemie</i> , 2016, 147, 207-217.	1.8	5
116	Sensitive determination of anticancer drug imatinib in spiked human urine samples by differential pulse voltammetry on anodically pretreated boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2016, 68, 13-22.	3.9	69
117	Fabrication and characterization of boron-doped nanocrystalline diamond-coated MEMS probes. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	18
118	Determination of Amlodipine and Atenolol by Batch Injection Analysis with Amperometric Detection on Borondoped Diamond Electrode. <i>Electroanalysis</i> , 2016, 28, 1455-1461.	2.9	19
119	Factors influencing voltammetric reduction of 5-nitroquinoline at boron-doped diamond electrodes. <i>Monatshefte Fr Chemie</i> , 2016, 147, 21-29.	1.8	13
120	Electrochemical behavior and analytical detection of Imidacloprid insecticide on a BDD electrode using square-wave voltammetric method. <i>Chinese Chemical Letters</i> , 2016, 27, 666-672.	9.0	39
121	Comparative Study of Basal-Plane Pyrolytic Graphite, Boron-Doped Diamond, and Amorphous Carbon Nitride Electrodes for the Voltammetric Determination of Furosemide in Pharmaceutical and Urine Samples. <i>Electrochimica Acta</i> , 2016, 197, 179-185.	5.2	31
122	Recent development of carbon electrode materials and their bioanalytical and environmental applications. <i>Chemical Society Reviews</i> , 2016, 45, 715-752.	38.1	249
123	Fabrication of a Microfluidic Device with Boron-doped Diamond Electrodes for Electrochemical Analysis. <i>Electrochimica Acta</i> , 2016, 197, 159-166.	5.2	16
124	Electrochemical determination of pterostilbene at a cathodically pretreated boron-doped diamond electrode using square-wave adsorptive anodic stripping voltammetry in cationic surfactant media. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 688-695.	7.8	37
125	Promising electrochemical performance of high-surface-area boron-doped diamond/carbon nanotube electroanalytical sensors. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2403-2409.	2.5	25
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127	Amperometric flow-injection determination of the anthelmintic drugs ivermectin and levamisole using electrochemically pretreated boron-doped diamond electrodes. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 181-189.	7.8	33
128	Chemical Modification of Boron-Doped Diamond Electrodes for Applications to Biosensors and Biosensing. <i>Critical Reviews in Analytical Chemistry</i> , 2016, 46, 248-256.	3.5	90
129	Boron-doped Diamond Electrodes for Voltammetric Determination of Benzophenone-3. <i>Analytical Letters</i> , 2016, 49, 80-91.	1.8	32
130	Oxidative and Reductive Detection Modes for Determination of Nitrophenols by High-Performance Liquid Chromatography with Amperometric Detection at a Boron Doped Diamond Electrode. <i>Analytical Letters</i> , 2016, 49, 66-79.	1.8	22

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132	Voltammetric Method for the Simultaneous Determination of Melatonin and Pyridoxine in Dietary Supplements Using a Cathodically Pretreated Boron-Doped Diamond Electrode. <i>Electroanalysis</i> , 2017, 29, 1691-1699.	2.9	36
133	Voltammetric determination of trace amounts of diacetyl at a mercury meniscus modified silver solid amalgam electrode following gas-diffusion microextraction. <i>Talanta</i> , 2017, 169, 203-208.	5.5	14
134	Non-Enzymatic Electrochemistry in Characterization and Analysis of Steroid Compounds. <i>Critical Reviews in Analytical Chemistry</i> , 2017, 47, 384-404.	3.5	12
135	Simultaneous voltammetric determination of vanillin and caffeine in food products using an anodically pretreated boron-doped diamond electrode: Its comparison with HPLC-DAD. <i>Talanta</i> , 2017, 170, 384-391.	5.5	79
136	Square-Wave Voltammetric Determination of Propyphenazone, Paracetamol, and Caffeine: Comparative Study between Batch Injection Analysis and Conventional Electrochemical Systems. <i>Electroanalysis</i> , 2017, 29, 1860-1866.	2.9	19
137	Influence of boron content on the morphological, spectral, and electroanalytical characteristics of anodically oxidized boron-doped diamond electrodes. <i>Electrochimica Acta</i> , 2017, 243, 170-182.	5.2	101
138	Use of a boron-doped diamond electrode to assess the electrochemical response of the naphthol isomers and to attain their truly simultaneous electroanalytical determination. <i>Electrochimica Acta</i> , 2017, 243, 374-381.	5.2	35
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