Lubomir Svorc

List of Publications by Year
in descending order

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113 papers	2,804 citations	147801 31 h-index	206112 48 g-index
114 all docs	114 docs citations	114 times ranked	3130 citing authors

#	Article	IF	Citations
1	Green electrochemical sensor for environmental monitoring of pesticides: Determination of atrazine in river waters using a boron-doped diamond electrode. Sensors and Actuators B: Chemical, 2013, 181, 294-300.	7.8	132
2	Voltammetric determination of caffeine in beverage samples on bare boron-doped diamond electrode. Food Chemistry, 2012, 135, 1198-1204.	8.2	115
3	Simultaneous determination of paracetamol and penicillin V by square-wave voltammetry at a bare boron-doped diamond electrode. Electrochimica Acta, 2012, 68, 227-234.	5.2	95
4	Chemical Modification of Boron-Doped Diamond Electrodes for Applications to Biosensors and Biosensing. Critical Reviews in Analytical Chemistry, 2016, 46, 248-256.	3.5	90
5	Overview and recent advances in electrochemical sensing of glutathione â€“ A review. Analytica Chimica Acta, 2019, 1062, 1-27.	5.4	87
6	Advanced electrochemical platform for determination of cytostatic drug flutamide in various matrices using a boron-doped diamond electrode. Electrochimica Acta, 2017, 251, 621-630.	5.2	73
7	Rapid and sensitive electrochemical determination of codeine in pharmaceutical formulations and human urine using a boron-doped diamond film electrode. Electrochimica Acta, 2013, 87, 503-510.	5.2	71
8	Flow-injection amperometric determination of glucose using a biosensor based on immobilization of glucose oxidase onto Au seeds decorated on core Fe3O4 nanoparticles. Talanta, 2015, 142, 35-42.	5.5	71
9	Analysis of pesticide residues by fast gas chromatography in combination with negative chemical ionization mass spectrometry. Journal of Chromatography A, 2009, 1216, 6326-6334.	3.7	69
10	Modification-free electrochemical approach for sensitive monitoring of purine DNA bases: Simultaneous determination of guanine and adenine in biological samples using boron-doped diamond electrode. Sensors and Actuators B: Chemical, 2014, 194, 332-342.	7.8	67
11	Boron-doped diamond electrochemical sensor for sensitive determination of nicotine in tobacco products and anti-smoking pharmaceuticals. Diamond and Related Materials, 2014, 42, 1-7.	3.9	66
12	Manganese dioxide-modified carbon paste electrode for voltammetric determination of riboflavin. Mikrochimica Acta, 2016, 183, 1619-1624.	5.0	65
13	Redox-cycling and intercalating properties of novel mixed copper(II) complexes with non-steroidal anti-inflammatory drugs tolfenamic, mefenamic and flufenamic acids and phenanthroline functionality: Structure, SOD-mimetic activity, interaction with albumin, DNA damage study and anticancer activity. Journal of Inorganic Biochemistry, 2019, 194, 97-113.	3.5	62
14	An advanced approach for electrochemical sensing of ibuprofen in pharmaceuticals and human urine samples using a bare boron-doped diamond electrode. Journal of Electroanalytical Chemistry, 2018, 822, 144-152.	3.8	61
15	Electrochemical determination of adrenaline in human urine using a boron-doped diamond film electrode. Diamond and Related Materials, 2014, 43, 5-11.	3.9	60
16	Electrochemical determination of histamine in fish sauce using heterogeneous carbon electrodes modified with rhenium(IV) oxide. Sensors and Actuators B: Chemical, 2016, 228, 774-781.	7.8	59
17	Electrochemical behavior of methamphetamine and its voltammetric determination in biological samples using self-assembled boron-doped diamond electrode. Journal of Electroanalytical Chemistry, 2014, 717-718, 34-40.	3.8	56
18	Doping Level of Boron-Doped Diamond Electrodes Controls the Grafting Density of Functional Groups for DNA Assays. ACS Applied Materials & Interfaces, 2015, 7, 18949-18956.	8.0	53

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19	Design of titanium nitride- and wolfram carbide-doped RGO/GC electrodes for determination of gallic acid. Analytical Biochemistry, 2017, 539, 104-112.	2.4	51
20	A progressive electrochemical sensor for food quality control: Reliable determination of theobromine in chocolate products using a miniaturized boron-doped diamond electrode. Microchemical Journal, 2018, 142, 297-304.	4.5	50
21	Voltammetric determination of penicillin V in pharmaceutical formulations and human urine using a boron-doped diamond electrode. Bioelectrochemistry, 2012, 88, 36-41.	4.6	49
22	New electrochemical method for the determination of Î²-carboline alkaloids, harmalol and harmine, in human urine samples and in Banisteriopsis caapi. Microchemical Journal, 2015, 118, 95-100.	4.5	47
23	A state-of-the-art approach for facile and reliable determination of benzocaine in pharmaceuticals and biological samples based on the use of miniaturized boron-doped diamond electrochemical sensor. Sensors and Actuators B: Chemical, 2018, 270, 9-17.	7.8	46
24	Voltammetric method for sensitive determination of herbicide picloram in environmental and biological samples using boron-doped diamond film electrode. Electrochimica Acta, 2013, 111, 242-249.	5.2	44
25	A Review on Recent Advances in the Applications of Boron-Doped Diamond Electrochemical Sensors in Food Analysis. Critical Reviews in Analytical Chemistry, 2022, 52, 791-813.	3.5	42
26	Polypyrrole-coated multi-walled carbon nanotubes for the simple preparation of counter electrodes in dye-sensitized solar cells. Synthetic Metals, 2015, 210, 323-331.	3.9	41
27	Advanced sensing performance towards simultaneous determination of quaternary mixture of antihypertensives using boron-doped diamond electrode. Microchemical Journal, 2017, 134, 173-180.	4.5	41
28	Electrochemical Determination of Natural Drug Colchicine in Pharmaceuticals and Human Serum Sample and its Interaction with DNA. Electroanalysis, 2017, 29, 2276-2281.	2.9	39
29	Mercury-free and modification-free electroanalytical approach towards bromazepam and alprazolam sensing: A facile and efficient assay for their quantification in pharmaceuticals using boron-doped diamond electrodes. Sensors and Actuators B: Chemical, 2017, 245, 963-971.	7.8	38
30	Monitoring of glucose and ethanol during wine fermentation by bienzymatic biosensor. Journal of Electroanalytical Chemistry, 2018, 816, 179-188.	3.8	37
31	Simple and Rapid Quantification of Folic Acid in Pharmaceutical Tablets using a Cathodically Pretreated Highly Boron-doped Polycrystalline Diamond Electrode. Analytical Letters, 2016, 49, 107-121.	1.8	35
32	Sensitive electrochemical determination of yohimbine in primary bark of natural aphrodisiacs using boron-doped diamond electrode. Analytical Methods, 2014, 6, 4853-4859.	2.7	31
33	The doping level of boron-doped diamond electrodes affects the voltammetric sensing ofÂuric acid. Analytical Methods, 2018, 10, 991-996.	2.7	31
34	Self-assembled sensor based on boron-doped diamond and its application in voltammetric analysis of picloram. International Journal of Environmental Analytical Chemistry, 2014, 94, 943-953.	3.3	29
35	Ptâ€“free counter electrodes based on modified screenâ€“printed PEDOT:PSS catalytic layers for dyeâ€“sensitized solar cells. Materials Science in Semiconductor Processing, 2017, 66, 162-169.	4.0	28
36	Increase of biogas production from pretreated hay and leaves using wood-rotting fungi. Chemical Papers, 2012, 66, .	2.2	27

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37	First voltammetric behavior study of non-narcotic analgesic drug nefopam and its reliable determination on boron-doped diamond electrodes. Journal of Electroanalytical Chemistry, 2020, 858, 113759.	3.8	27
38	Comparison of negative chemical ionization and electron impact ionization in gas chromatographyâ€“mass spectrometry of endocrine disrupting pesticides. Journal of Chromatography A, 2009, 1216, 4927-4932.	3.7	26
39	Degradation of atrazine by Fenton and modified Fenton reactions. Monatshefte FÃ¼r Chemie, 2011, 142, 561-567.	1.8	26
40	Antimicrobial Activity of Novel C2-Substituted 1,4-Dihydropyridine Analogues. Scientia Pharmaceutica, 2014, 82, 221-232.	2.0	24
41	The activity of non-metallic boron-doped diamond electrodes with sub-micron scale heterogeneity and the role of the morphology of sp2 impurities. Carbon, 2016, 110, 148-154.	10.3	24
42	Highly diastereoselective approach to novel phenylindolizidinols via benzothieno analogues of tylophorine based on reductive desulfurization of benzo[b]thiophene. Tetrahedron: Asymmetry, 2009, 20, 626-634.	1.8	22
43	Combined Chemical, Biological and Theoretical DFTâ€QTAIM Study of Potent Glycosidase Inhibitors Based on Quaternary Indolizinium Salts. European Journal of Organic Chemistry, 2012, 2012, 5498-5514.	2.4	22
44	Synthesis, spectral, magnetic properties, electrochemical evaluation and SOD mimetic activity of four mixed-ligand Cu(II) complexes. Inorganica Chimica Acta, 2017, 455, 298-306.	2.4	22
45	Preparation of Filtration Sorptive Materials from Nanofibers, Bicofibers, and Textile Adsorbents without Binders Employment. Nanomaterials, 2018, 8, 564.	4.1	22
46	Bare carbon electrodes as simple and efficient sensors for the quantification of caffeine in commercial beverages. Royal Society Open Science, 2018, 5, 172146.	2.4	22
47	Electrochemical determination of erythromycin in drinking water resources by surface modified screen-printed carbon electrodes. Microchemical Journal, 2019, 148, 412-418.	4.5	22
48	An Ethanol Biosensor Based on Simple Immobilization of Alcohol Dehydrogenase on Fe₃O₄@Au Nanoparticles. Electroanalysis, 2015, 27, 2829-2837.	2.9	21
49	Electroanalytical application of a boron-doped diamond electrode for sensitive voltammetric determination of theophylline in pharmaceutical dosages and human urine. Analytical Methods, 2015, 7, 6755-6763.	2.7	20
50	Protective Properties of a Microstructure Composed of Barrier Nanostructured Organics and SiOx Layers Deposited on a Polymer Matrix. Nanomaterials, 2018, 8, 679.	4.1	20
51	Novel electrochemical strategy for determination of 6-mercaptopurine using anodically pretreated boron-doped diamond electrode. Journal of Electroanalytical Chemistry, 2019, 840, 295-304.	3.8	20
52	Novel quercetin derivatives in treatment of peroxynitrite-oxidized SERCA1. Molecular and Cellular Biochemistry, 2014, 386, 1-14.	3.1	18
53	Voltammetric Protocol for Reliable Determination of a Platelet Aggregation Inhibitor Dipyridamole on a Bare Miniaturized Boron-Doped Diamond Electrochemical Sensor. Journal of the Electrochemical Society, 2019, 166, B219-B226.	2.9	18
54	Preparation and Spectroscopic, Magnetic, and Electrochemical Studies of Mono-/Biradical TEMPO Derivatives. Journal of Organic Chemistry, 2013, 78, 6558-6569.	3.2	17

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55	Indirect Voltammetric Sensing Platforms For Fluoride Detection on Boron-Doped Diamond Electrode Mediated via [FeF 6] 3â^' and [CeF 6] 2â^' Complexes Formation. Electrochimica Acta, 2014, 148, 317-324.	5.2	17
56	Electrochemical method for point-of-care determination of ciprofloxacin using boron-doped diamond electrode. Acta Chimica Slovaca, 2016, 9, 146-151.	0.8	16
57	In vitro biological activity of copper(II) complexes with NSAIDs and nicotinamide: Characterization, DNA- and BSA-interaction study and anticancer activity. Journal of Inorganic Biochemistry, 2022, 228, 111696.	3.5	16
58	Laccase from Botryosphaeria rhodina MAMB-05 as a biological component in electrochemical biosensing devices. Analytical Methods, 2019, 11, 717-720.	2.7	15
59	Treatment of industrial wastewater with high content of polyethylene glycols by Fenton-like reaction system (Fe⁰/H₂O₂/H₂SO₄). Desalination and Water Treatment, 2013, 51, 4489-4496.	1.0	14
60	Analytical Approach for Detection of Ergosterol in Mushrooms Based on Modification Free Electrochemical Sensor in Organic Solvents. Food Analytical Methods, 2018, 11, 2590-2596.	2.6	14
61	Two versatile salicylatocopper(II) complexes: Structure, spectral, magnetic, electrochemical properties and SOD mimetic activity. Polyhedron, 2018, 151, 152-159.	2.2	14
62	Comparison of Carbonâ€based Electrodes for Detection of Cresols in Voltammetry and HPLC with Electrochemical Detection. Electroanalysis, 2020, 32, 2193-2204.	2.9	14
63	Newly synthesized indolizine derivatives â€“ antimicrobial and antimutagenic properties. Chemical Papers, 2015, 69, .	2.2	13
64	Improving Limits of Detection. Microdisc versus Microcylinder Electrodes. Electroanalysis, 2017, 29, 1006-1013.	2.9	13
65	Batch injection analysis in tandem with electrochemical detection: the recent trends and an overview of the latest applications (2015â€“2020). Monatshefte FÃ¼r Chemie, 2022, 153, 985-1000.	1.8	13
66	Regioselective ring opening of the chiral non-racemic furoindolizidinols. New entry to alkylindolizidinediol derivatives. Tetrahedron: Asymmetry, 2010, 21, 623-630.	1.8	12
67	Screen printed diamond electrode as efficient â€œpoint-of-careâ€•platform for submicromolar determination of cytostatic drug in biological fluids and pharmaceutical product. Diamond and Related Materials, 2021, 113, 108277.	3.9	12
68	A modern and powerful electrochemical sensing platform for purines determination: Voltammetric determination of uric acid and caffeine in biological samples on miniaturized thick-film boron-doped diamond electrode. Microchemical Journal, 2022, 175, 107132.	4.5	12
69	Flow-injection amperometric determination of yohimbine alkaloid in dietary supplements using a boron-doped diamond electrode. Sensors and Actuators B: Chemical, 2014, 205, 215-218.	7.8	11
70	A complicated path of salicylaldehyde through the Biginelli reaction: a case of unexpected spiroketalization. Tetrahedron, 2014, 70, 8354-8360.	1.9	11
71	Heavy metals determination using various in situ bismuth film modified carbon-based electrodes. Acta Chimica Slovaca, 2016, 9, 28-35.	0.8	11
72	A new voltammetric platform for reliable determination of the sport performance-enhancing stimulant synephrine in dietary supplements using a boron-doped diamond electrode. Analytical Methods, 2020, 12, 4749-4758.	2.7	11

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73	Rapid electrochemical platform for nicotine sensing in cigarettes and chewing gums. Acta Chimica Slovaca, 2015, 8, 166-171.	0.8	10
74	A New Colorimetric Assay for Determination of Selected Toxic Vapors and Liquids Permeation Through Barrier Materials Using the Minitest Device. Materiale Plastice, 2017, 54, 748-751.	0.8	9
75	Synthesis, physicochemical properties and antimicrobial activity of mono-/dinitroxyl amides. Organic and Biomolecular Chemistry, 2014, 12, 4491-4502.	2.8	8
76	Utilization of electrochemical methods in determination of trace elements in beverages. Acta Chimica Slovaca, 2012, 5, 42-46.	0.8	7
77	Electrochemical and analytical performance of boron-doped diamond electrode for determination of ascorbic acid. Acta Chimica Slovaca, 2017, 10, 21-28.	0.8	7
78	Bis(1-benzofuro[3,2-c]pyridine-Î²N)dichloridocobalt(II). Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2427-m2428.	0.2	6
79	Simple, Rapid and Sensitive Electrochemical Method for the Determination of the Triketone Herbicide Sulcotrione in River Water Using a Glassy Carbon Electrode. Electroanalysis, 2015, 27, 1587-1593.	2.9	6
80	Tetra-Î¼-acetato-bis[(benzofuro[3,2-c]pyridine)copper(II)]. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2112-m2113.	0.2	5
81	Toxicity reduction of 2-(5-nitrofuryl)acrylic acid following Fenton reaction treatment. Chemical Papers, 2011, 65, .	2.2	4
82	Induction of resistance in Mycobacterium smegmatis. Canadian Journal of Microbiology, 2013, 59, 126-129.	1.7	4
83	DNA-modified boron-doped diamond electrode as a simple electrochemical platform for detection of damage to DNA by antihypertensive amlodipine. Monatshefte FÃ¼r Chemie, 2016, 147, 1365-1373.	1.8	4
84	Electrochemical determination of ajmalicine using glassy carbon electrode modified with gold nanoparticles. Monatshefte FÃ¼r Chemie, 2016, 147, 1161-1166.	1.8	4
85	SOD mimetic activity of salicylatocopper complexesâ€¡. Chemical Papers, 2016, 70, .	2.2	4
86	Polyradical PROXYL/TEMPOâ€Derived Amides: Synthesis, Physicochemical Studies, DFT Calculations, and Antimicrobial Activity. ChemPlusChem, 2017, 82, 1326-1340.	2.8	4
87	Electrochemistry of the Arrow Poison, Tubocurarine, Using Boron Doped Diamond Electrode: Experimental and Theoretical Approaches. Journal of the Electrochemical Society, 2019, 166, G157-G161.	2.9	4
88	(3aR,4R,4aS,9aR)-4-Hydroxyperhydrofuro[2,3-f]indolizin-7(2H)-one. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o1452-o1454.	0.2	3
89	2-[3-(Trifluoromethyl)phenyl]furo[2,3-c]pyridine. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o4516-o4516.	0.2	3
90	Polyradical PROXYL/TEMPO Conjugates Connected by Ester/Amide Bridges: Synthesis, Physicochemical Studies, and DFT Calculations. ChemPlusChem, 2021, 86, 396-405.	2.8	3

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91	(8aS)-7,8,8a,9-Tetrahydrothieno[3,2-f]indolizin-6(4H)-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o695-o696.	0.2	2
92	(6S,7S,8R,8aS)-6-Ethylperhydroindolizine-7,8-diol. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1666-o1666.	0.2	2
93	(6S,7S,8S,8aS)-6-Ethyl-7,8-dihydroxy-1,5,6,7,8,8a-hexahydroindolizin-3(2H)-one monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o3112-o3113.	0.2	2
94	Behavior of the guanosine monophosphate modified boron-doped diamond electrode in the presence of the pesticide alachlor. Acta Chimica Slovaca, 2015, 8, 172-177.	0.8	2
95	Anodic stripping voltammetry: affordable and reliable alternative to inductively coupled plasma-based analytical methods. Monatshefte FÃ¼r Chemie, 2018, 149, 913-920.	1.8	2
96	Additional Studies on the Electrochemical Behaviour of Three Macrolides on Pt and Carbon Based Electrodes. Electroanalysis, 2021, 33, 2196-2203.	2.9	2
97	(11R,11aS)-11-Hydroxy-1,5,11,11a-tetrahydro-1-benzothieno[2,3-f]indolizin-3(2H)-one. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1164-o1165.	0.2	2
98	(7R,8R,8aS)-8-Hydroxy-7-phenylperhydroindolizin-3-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o895-o896.	0.2	2
99	(4R,6S,7S,8S,8aS)-6-Ethyl-7,8-dihydroxy-4-methyl-1,2,3,5,6,7,8,8a-octahydroindolizin-4-ium iodide. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o3520-o3521.	0.2	1
100	(5S,11aS)-5-Hydroperoxy-1,5,11,11a-tetrahydro[1]benzothieno[3,2-f]indolizin-3(2H)-one. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o3327-o3328.	0.2	1
101	(6S,7S,8S,8aS)-6-Ethyl-3-oxo-1,2,3,5,6,7,8,8a-octahydroindolizine-7,8-diyl diacetate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o662-o663.	0.2	1
102	1,1â€²-[4-(5-Bromo-2-furyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-diyl]diethanone. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o1590-o1592.	0.2	0
103	Dimethyl 2-[(E)-(hydroxyimino)methyl]-6-methyl-4-(2-thienyl)-1,4-dihydropyridine-3,5-dicarboxylate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o2240-o2242.	0.2	0
104	(10aS)-6-Methoxy-1,10a-dihydropyrrolo[1,2-b]isoquinoline-3,10(2H,5H)-dione. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o2444-o2444.	0.2	0
105	(8aS)-8,8a-Dihydrofuro[3,2-f]indolizine-6,9(4H,7H)-dione. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3180-o3181.	0.2	0
106	(8aRS)-8,8a-Dihydrofuro[3,2-f]indolizine-6,9(4H,7H)-dione. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2035-o2035.	0.2	0
107	(8aR,9R)-9-Hydroxy-7,8,8a,9-tetrahydrofuro[3,2-f]indolizin-6(4H)-one. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o3034-o3035.	0.2	0
108	(7R,8S,8aS)-8-Hydroxy-7-phenylperhydroindolizin-3-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1368-o1369.	0.2	0

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109	(3aR,8aS,9S,9aR)-9-Hydroxyperhydrofuro[3,2-f]indolizin-6-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1731-o1732.	0.2	0
110	Crystal and electronic structure, Nâ€“Hâ‹¯N and Câ€“Hâ‹¯O interactions in novel spiro-[chroman-chromene]-carboxylate. Acta Chimica Slovaca, 2017, 10, 74-78.	0.8	0
111	Crystallographic characterization of a novel spiro-[chroman-chromene]-carboxylate. Acta Chimica Slovaca, 2017, 10, 170-174.	0.8	0
112	Structural characterization and crystal packing of the isoquinoline derivative. European Journal of Chemistry, 2018, 9, 189-193.	0.6	0
113	The Heat Stress Effects on the Gases Permeability of the Isolative Type Garment of the Czech Armed Forces Chemical Corps Specialists Body Surface Protection. Revista De Chimie (discontinued), 2019, 70, 1597-1602.	0.4	0