Lubomir Svorc

List of Publications by Year in descending order

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113 papers

2,804 citations

31 h-index

147801

206112 48 g-index

114 all docs

114 docs citations

114 times ranked 3130 citing authors

#	Article	IF	CITATIONS
1	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
2	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
3	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
4	Batch injection analysis in tandem with electrochemical detection: the recent trends and an overview of the latest applications (2015–2020). Monatshefte FÃ⅓r Chemie, 2022, 153, 985-1000.	1.8	13
5	Polyradical PROXYL/TEMPO Conjugates Connected by Ester/Amide Bridges: Synthesis, Physicochemical Studies, and DFT Calculations. ChemPlusChem, 2021, 86, 396-405.	2.8	3
6	Screen printed diamond electrode as efficient "point-of-care―platform for submicromolar determination of cytostatic drug in biological fluids and pharmaceutical product. Diamond and Related Materials, 2021, 113, 108277.	3.9	12
7	Additional Studies on the Electrochemical Behaviour of Three Macrolides on Pt and Carbon Based Electrodes. Electroanalysis, 2021, 33, 2196-2203.	2.9	2
8	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
9	Comparison of Carbonâ€based Electrodes for Detection of Cresols in Voltammetry and HPLC with Electrochemical Detection. Electroanalysis, 2020, 32, 2193-2204.	2.9	14
10	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
11	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
12	Laccase from <i>Botryosphaeria rhodina</i> MAMB-05 as a biological component in electrochemical biosensing devices. Analytical Methods, 2019, 11, 717-720.	2.7	15
13	Electrochemical determination of erythromycin in drinking water resources by surface modified screen-printed carbon electrodes. Microchemical Journal, 2019, 148, 412-418.	4.5	22
14	Overview and recent advances in electrochemical sensing of glutathione $\hat{a} \in A$ review. Analytica Chimica Acta, 2019, 1062, 1-27.	5.4	87
15	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
16	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
17	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
18	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

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19	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
20	The doping level of boron-doped diamond electrodes affects the voltammetric sensing ofÂuric acid. Analytical Methods, 2018, 10, 991-996.	2.7	31
21	Anodic stripping voltammetry: affordable and reliable alternative to inductively coupled plasma-based analytical methods. Monatshefte Für Chemie, 2018, 149, 913-920.	1.8	2
22	Monitoring of glucose and ethanol during wine fermentation by bienzymatic biosensor. Journal of Electroanalytical Chemistry, 2018, 816, 179-188.	3.8	37
23	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
24	Preparation of Filtration Sorptive Materials from Nanofibers, Bicofibers, and Textile Adsorbents without Binders Employment. Nanomaterials, 2018, 8, 564.	4.1	22
25	Two versatile salicylatocopper(II) complexes: Structure, spectral, magnetic, electrochemical properties and SOD mimetic activity. Polyhedron, 2018, 151, 152-159.	2.2	14
26	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
27	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
28	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
29	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
30	Structural characterization and crystal packing of the isoquinoline derivative. European Journal of Chemistry, 2018, 9, 189-193.	0.6	0
31	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
32	Pt–free counter electrodes based on modified screen–printed PEDOT:PSS catalytic layers for dye–sensitized solar cells. Materials Science in Semiconductor Processing, 2017, 66, 162-169.	4.0	28
33	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
34	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
35	Improving Limits of Detection. Microdisc versus Microcylinder Electrodes. Electroanalysis, 2017, 29, 1006-1013.	2.9	13
36	Polyradical PROXYL/TEMPOâ€Derived Amides: Synthesis, Physicochemical Studies, DFT Calculations, and Antimicrobial Activity. ChemPlusChem, 2017, 82, 1326-1340.	2.8	4

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37	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
38	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
39	Electrochemical and analytical performance of boron-doped diamond electrode for determination of ascorbic acid. Acta Chimica Slovaca, 2017, 10, 21-28.	0.8	7
40	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
41	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
42	Crystal and electronic structure, N–Hâ√N and C–Hâ√O interactions in novel spiro-[chroman-chromene]-carboxylate. Acta Chimica Slovaca, 2017, 10, 74-78.	0.8	0
43	Crystallographic characterization of a novel spiro-[chroman-chromene]-carboxylate. Acta Chimica Slovaca, 2017, 10, 170-174.	0.8	0
44	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
45	Heavy metals determination using various <i>in situ</i> bismuth film modified carbon-based electrodes. Acta Chimica Slovaca, 2016, 9, 28-35.	0.8	11
46	Electrochemical method for point-of-care determination of ciprofloxacin using boron-doped diamond electrode. Acta Chimica Slovaca, 2016, 9, 146-151.	0.8	16
47	DNA-modified boron-doped diamond electrode as a simple electrochemical platform for detection of damage to DNA by antihypertensive amlodipine. Monatshefte FÃ $\frac{1}{4}$ r Chemie, 2016, 147, 1365-1373.	1.8	4
48	Electrochemical determination of ajmalicine using glassy carbon electrode modified with gold nanoparticles. Monatshefte FÃ $\frac{1}{4}$ r Chemie, 2016, 147, 1161-1166.	1.8	4
49	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
50	Manganese dioxide-modified carbon paste electrode for voltammetric determination of riboflavin. Mikrochimica Acta, 2016, 183, 1619-1624.	5.0	65
51	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
52	SOD mimetic activity of salicylatocopper complexes‡. Chemical Papers, 2016, 70, .	2.2	4
53	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
54	Rapid electrochemical platform for nicotine sensing in cigarettes and chewing gums. Acta Chimica Slovaca, 2015, 8, 166-171.	0.8	10

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55	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
56	An Ethanol Biosensor Based on Simple Immobilization of Alcohol Dehydrogenase on Fe ₃ O ₄ @Au Nanoparticles. Electroanalysis, 2015, 27, 2829-2837.	2.9	21
57	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
58	Newly synthesized indolizine derivatives – antimicrobial and antimutagenic properties. Chemical Papers, 2015, 69, .	2.2	13
59	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
60	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
61	Doping Level of Boron-Doped Diamond Electrodes Controls the Grafting Density of Functional Groups for DNA Assays. ACS Applied Materials & Samp; Interfaces, 2015, 7, 18949-18956.	8.0	53
62	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
63	New electrochemical method for the determination of \hat{l}^2 -carboline alkaloids, harmalol and harmine, in human urine samples and in Banisteriopsis caapi. Microchemical Journal, 2015, 118, 95-100.	4.5	47
64	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
65	Antimicrobial Activity of Novel C2-Substituted 1,4-Dihydropyridine Analogues. Scientia Pharmaceutica, 2014, 82, 221-232.	2.0	24
66	Synthesis, physicochemical properties and antimicrobial activity of mono-/dinitroxyl amides. Organic and Biomolecular Chemistry, 2014, 12, 4491-4502.	2.8	8
67	Novel quercetin derivatives in treatment of peroxynitrite-oxidized SERCA1. Molecular and Cellular Biochemistry, 2014, 386, 1-14.	3.1	18
68	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
69	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
70	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
71	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
72	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

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73	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
74	A complicated path of salicylaldehyde through the Biginelli reaction: a case of unexpected spiroketalization. Tetrahedron, 2014, 70, 8354-8360.	1.9	11
75	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
76	Induction of resistance in Mycobacterium smegmatis. Canadian Journal of Microbiology, 2013, 59, 126-129.	1.7	4
77	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
78	Preparation and Spectroscopic, Magnetic, and Electrochemical Studies of Mono-/Biradical TEMPO Derivatives. Journal of Organic Chemistry, 2013, 78, 6558-6569.	3.2	17
79	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
80	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
81	Treatment of industrial wastewater with high content of polyethylene glycols by Fenton-like reaction system (Fe ⁰ /H ₂ O ₂ /H ₂ SO ₄). Desalination and Water Treatment, 2013, 51, 4489-4496.	1.0	14
82	(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
83	(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, 0662-0663.	0.2	1
84	(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
85	Utilization of electrochemical methods in determination of trace elements in beverages. Acta Chimica Slovaca, 2012, 5, 42-46.	0.8	7
86	Voltammetric determination of caffeine in beverage samples on bare boron-doped diamond electrode. Food Chemistry, 2012, 135, 1198-1204.	8.2	115
87	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
88	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
89	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
90	Increase of biogas production from pretreated hay and leaves using wood-rotting fungi. Chemical Papers, 2012, 66, .	2.2	27

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91	Toxicity reduction of 2-(5-nitrofuryl)acrylic acid following Fenton reaction treatment. Chemical Papers, 2011, 65, .	2.2	4
92	Degradation of atrazine by Fenton and modified Fenton reactions. Monatshefte FÃ $\frac{1}{4}$ r Chemie, 2011, 142, 561-567.	1.8	26
93	(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
94	(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
95	Regioselective ring opening of the chiral non-racemic furoindolizidinols. New entry to alkylindolizidinediol derivatives. Tetrahedron: Asymmetry, 2010, 21, 623-630.	1.8	12
96	(6S,7S,8R,8aS)-6-Ethylperhydroindolizine-7,8-diol. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1666-o1666.	0.2	2
97	(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
98	(8aS)-7,8,8a,9-Tetrahydrothieno[3,2-f]indolizin-6(4H)-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, 0695-0696.	0.2	2
99	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
100	Comparison of negative chemical ionization and electron impact ionization in gas chromatography–mass spectrometry of endocrine disrupting pesticides. Journal of Chromatography A, 2009, 1216, 4927-4932.	3.7	26
101	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
102	(7R,8R,8aS)-8-Hydroxy-7-phenylperhydroindolizin-3-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, 0895-0896.	0.2	2
103	(7R,8S,8aS)-8-Hydroxy-7-phenylperhydroindolizin-3-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1368-o1369.	0.2	0
104	(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
105	(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
106	(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
107	1,1′-[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
108	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

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109	(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
110	(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
111	Tetra- \hat{l} /4-acetato-bis[(benzofuro[3,2- <i>c</i>)pyridine)copper(II)]. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2112-m2113.	0.2	5
112	Bis(1-benzofuro[3,2- <i>c</i>)]pyridine- \hat{l}° <i>N</i>)dichloridocobalt(II). Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2427-m2428.	0.2	6
113	2-[3-(Trifluoromethyl)phenyl]furo[2,3-c]pyridine. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o4516-o4516.	0.2	3