

Marian Vojs

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,150
citations

361296

20
h-index

454834

30
g-index

88
all docs

88
docs citations

88
times ranked

1460
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel screen-printed sensors with chemically deposited boron-doped diamond and their use for voltammetric determination of attention deficit hyperactivity disorder medication atomoxetine. <i>Electrochimica Acta</i> , 2022, 403, 139642.	2.6	8
2	Novel Screen-Printed Sensor with Chemically Deposited Boron-Doped Diamond Electrode: Preparation, Characterization, and Application. <i>Biosensors</i> , 2022, 12, 241.	2.3	10
3	Intelligent Monitoring System for Universal Data Collection and Analysis. , 2022, , .		1
4	New chemical pathway for large-area deposition of doped diamond films by linear antenna microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2022, 126, 109111.	1.8	14
5	Influence of SiON interlayer on the diamond/GaN heterostructures studied by Raman and SIMS measurements. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 273, 115434.	1.7	0
6	Boron doped diamond electrode – The elimination of psychoactive drugs and resistant bacteria from wastewater. <i>Vacuum</i> , 2020, 171, 108957.	1.6	14
7	Nanostructured boron doped diamond enhancing the photoelectrochemical performance of TiO ₂ /BDD heterojunction anodes. <i>Vacuum</i> , 2020, 171, 109006.	1.6	7
8	Voltammetric detection of silver in commercial products on boron doped diamond electrode: stripping at lowered potential in the presence of thiosulfate ions. <i>Monatshefte für Chemie</i> , 2020, 151, 1009-1017.	0.9	5
9	Influence of boron doped diamond electrodes properties on the elimination of selected pharmaceuticals from wastewater. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 114007.	1.9	8
10	Voltammetric characterization of boron-doped diamond electrodes for electroanalytical applications. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 114020.	1.9	27
11	Optimization of SiON/SiO _x structures fabrication process for optical waveguides. , 2020, , .		1
12	Electro-oxidative decolorization and treatment of model wastewater containing Acid Blue 80 on boron doped diamond and platinum anodes. <i>Journal of Electroanalytical Chemistry</i> , 2020, 863, 114036.	1.9	26
13	Direct Deposition of CVD Diamond Layers on Top of GaN Membranes. <i>Proceedings (mdpi)</i> , 2020, 56, .	0.2	0
14	Inhibition of staphylococci and <i>S. aureus</i> in wastewater by ferrates and electrochemical methods. <i>Acta Chimica Slovaca</i> , 2020, 13, 49-54.	0.5	0
15	Interference-enhanced Raman scattering in SiO ₂ /Si structures related to reflectance. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1502-1509.	1.2	10
16	Surface modification of metal oxide films by gold nanoparticles. <i>Journal of Physics: Conference Series</i> , 2019, 1319, 012005.	0.3	2
17	Fabrication of boron doped diamond cantilevers by means of dry ICP etching. <i>Journal of Physics: Conference Series</i> , 2019, 1319, 012015.	0.3	1
18	Stability of the surface termination of nanocrystalline diamond and diamond-like carbon films exposed to open air conditions. <i>Diamond and Related Materials</i> , 2019, 100, 107562.	1.8	9

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19	Comparison of Al and Cu masks used for patterning boron-doped diamonds in oxygen plasma. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 124004.	1.5	0
20	On the ultra-fast ion induced demagnetization in thin films. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
21	Hospital wastewaters treatment: Fenton reaction vs. BDDE vs. ferrate(VI). <i>Environmental Science and Pollution Research</i> , 2019, 26, 31812-31821.	2.7	16
22	Study of self-masking nanostructuring of boron doped diamond films by RF plasma etching. <i>Vacuum</i> , 2019, 170, 108954.	1.6	9
23	A novel method for time-resolved measurement of magnetization dynamics induced by femtosecond laser pulse in highly absorbing and metallic layer coated thin films based on a magnetic loop antenna. <i>AIP Advances</i> , 2019, 9, 095044.	0.6	0
24	Bismuth modified boron doped diamond electrode for simultaneous determination of Zn, Cd and Pb ions by square wave anodic stripping voltammetry: Influence of boron concentration and surface morphology. <i>Vacuum</i> , 2019, 167, 182-188.	1.6	32
25	The doping level of boron-doped diamond electrodes affects the voltammetric sensing of Ascorbic acid. <i>Analytical Methods</i> , 2018, 10, 991-996.	1.3	31
26	Influence of boron content on electrochemical properties of boron-doped diamond electrodes and their utilization for leucovorin determination. <i>Journal of Electroanalytical Chemistry</i> , 2018, 821, 2-9.	1.9	28
27	Study on electronic properties of diamond/SiNx-coated AlGaN/GaN high electron mobility transistors operating up to 500°C. <i>Diamond and Related Materials</i> , 2018, 89, 266-272.	1.8	9
28	Electrodeposition of Cuprous Oxide on Boron Doped Diamond Electrodes. <i>Advances in Electrical and Electronic Engineering</i> , 2018, 16, .	0.2	1
29	Monitoring of micropollutants and resistant bacteria in wastewater and their effective removal by boron doped diamond electrode. <i>Monatshefte für Chemie</i> , 2017, 148, 539-548.	0.9	10
30	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. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 963-971.	4.0	38
31	The influence of selected nanomaterials on microorganisms. <i>Monatshefte für Chemie</i> , 2017, 148, 525-530.	0.9	10
32	Interference enhancement in SERS spectra of rhodamine 6G: Relation to reflectance. <i>Vibrational Spectroscopy</i> , 2017, 90, 31-37.	1.2	13
33	Heavily Boron Doped Diamond Electrodes for Ultra Sensitive Determination of Ciprofloxacin in Human Urine. <i>Electroanalysis</i> , 2017, 29, 1612-1617.	1.5	24
34	Electrical and optical characterization of sputtered ZnO:Ga thin films doped with nitrogen. , 2017, , .		0
35	Electrochemical and analytical performance of boron-doped diamond electrode for determination of ascorbic acid. <i>Acta Chimica Slovaca</i> , 2017, 10, 21-28.	0.5	7
36	Stability of AlGaN/GaN heterostructures after hydrogen plasma treatment. <i>Applied Surface Science</i> , 2017, 395, 92-97.	3.1	7

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37	Schottky contact metallization stability on AlGaIn/GaN heterostructure during the diamond deposition process. , 2016, , .		0
38	The activity of non-metallic boron-doped diamond electrodes with sub-micron scale heterogeneity and the role of the morphology of sp ² impurities. Carbon, 2016, 110, 148-154.	5.4	24
39	Surface and electrochemical characterization of boron-doped diamond electrodes prepared under different conditions. Monatshefte für Chemie, 2016, 147, 1353-1364.	0.9	14
40	DNA-modified boron-doped diamond electrode as a simple electrochemical platform for detection of damage to DNA by antihypertensive amlodipine. Monatshefte für Chemie, 2016, 147, 1365-1373.	0.9	4
41	Occurrence of pharmaceuticals, illicit drugs, and resistant types of bacteria in hospital effluent and their effective degradation by boron-doped diamond electrodes. Monatshefte für Chemie, 2016, 147, 97-103.	0.9	14
42	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.	1.0	35
43	Fabrication and Characterization of N-Type Zinc Oxide/P-Type Boron Doped Diamond Heterojunction. Journal of Electrical Engineering, 2015, 66, 277-281.	0.4	3
44	E-learning as a support for student team projects. , 2015, , .		0
45	Rapid electrochemical platform for nicotine sensing in cigarettes and chewing gums. Acta Chimica Slovaca, 2015, 8, 166-171.	0.5	10
46	Interactive forms of technical education support in primary and secondary schools. , 2015, , .		4
47	Diamond-coated three-dimensional GaN micromembranes: Effect of nucleation and deposition techniques. Physica Status Solidi (B): Basic Research, 2015, 252, 2585-2590.	0.7	7
48	Characterization of the Oxidative Behavior of Cyclic Nucleotides Using Electrochemistry and Mass Spectrometry. Electroanalysis, 2015, 27, 234-241.	1.5	9
49	Voltammetric determination of erythromycin in water samples using a boron-doped diamond electrode. Physica Status Solidi (B): Basic Research, 2015, 252, 2608-2613.	0.7	10
50	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.	1.3	20
51	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.	4.0	53
52	Treatment of TiO ₂ surface for deposition of gold nanoparticles from colloidal suspension. Journal of Micromechanics and Microengineering, 2015, 25, 074008.	1.5	4
53	Finite element analysis of AlGaIn/GaN micro-diaphragms with diamond coating. , 2015, , .		2
54	Influence of Diamond CVD Growth Conditions and Interlayer Material on Diamond/GaN Interface. Materials Science Forum, 2015, 821-823, 982-985.	0.3	7

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55	Electrical characterization of diamond films deposited in nitrogen and oxygen containing gas mixture. , 2014, , .		0
56	AlGa _N /Ga _N micromembranes with diamond coating for high electron mobility transistors operated at high temperatures. , 2014, , .		0
57	Bismuth Film Voltammetric Sensor on Pyrolyzed Photoresist/Alumina Support for Determination of Heavy Metals. <i>Electroanalysis</i> , 2014, 26, 898-903.	1.5	14
58	Electrochemical behavior of methamphetamine and its voltammetric determination in biological samples using self-assembled boron-doped diamond electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014, 717-718, 34-40.	1.9	56
59	Self-assembled sensor based on boron-doped diamond and its application in voltammetric analysis of picloram. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 943-953.	1.8	29
60	Selective area deposition of diamond films on AlGa _N /Ga _N heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2574-2580.	0.7	15
61	Sensitive electrochemical determination of amlodipine in pharmaceutical tablets and human urine using a boron-doped diamond electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014, 728, 86-93.	1.9	87
62	Electrical transport mechanisms in amorphous/crystalline silicon heterojunction: Impact of passivation layer thickness. <i>Thin Solid Films</i> , 2014, 558, 315-319.	0.8	10
63	Deposition of boron doped diamond and carbon nanomaterials on graphite foam electrodes. <i>Applied Surface Science</i> , 2014, 312, 139-144.	3.1	18
64	Structural and electrical characterization of diamond films deposited in nitrogen/oxygen containing gas mixture by linear antenna microwave CVD process. <i>Applied Surface Science</i> , 2014, 312, 226-230.	3.1	11
65	Raman Spectroscopy of Amorphous Carbon Prepared by Pulsed Arc Discharge in Various Gas Mixtures. <i>Journal of Spectroscopy</i> , 2013, 2013, 1-6.	0.6	53
66	Carrier Control in Polycrystalline ZnO:Ga Thin Films via Nitrogen Implantation. <i>ECS Journal of Solid State Science and Technology</i> , 2012, 1, P237-P240.	0.9	1
67	Effect of annealing on properties of sputtered and nitrogen-implanted ZnO:Ga thin films. <i>EPJ Photovoltaics</i> , 2012, 3, 35003.	0.8	3
68	Acceptor Doping in Sputtered ZnO Thin Films. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 34, 012008.	0.3	2
69	Nafion-coated bismuth film electrodes on pyrolyzed photoresist/alumina supports for analysis of trace heavy metals. <i>Electrochimica Acta</i> , 2012, 63, 192-196.	2.6	26
70	Relationships between the fretting wear behavior and mechanical properties of thin carbon films. <i>Vacuum</i> , 2012, 86, 675-680.	1.6	10
71	Diamond thin film nucleation on silicon by ultrasonication in various mixtures. <i>Vacuum</i> , 2012, 86, 681-683.	1.6	10
72	Electrochemical corrosion behavior of amorphous carbon nitride thin films. <i>Vacuum</i> , 2012, 86, 696-698.	1.6	4

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73	Pyrolyzed Photoresist Film Electrodes for Application in Electroanalysis. Journal of Electrical Engineering, 2011, 62, 49-53.	0.4	4
74	A Raman spectroscopy study on differently deposited DLC layers in pulse arc system. Chemical Papers, 2010, 64, .	1.0	3
75	Study of adhesion of carbon nitride thin films on medical alloy substrates. Vacuum, 2009, 84, 65-67.	1.6	10
76	Bias enhanced nucleation of diamond thin films in a modified HFCVD reactor. Vacuum, 2009, 84, 49-52.	1.6	27
77	Properties of amorphous carbon layers for bio-tribological applications. Microelectronics Journal, 2009, 40, 650-653.	1.1	3
78	Electrical property dependence on thickness and morphology of nanocrystalline diamond thin films. Microelectronics Journal, 2009, 40, 615-617.	1.1	2
79	Bismuth film electrodes for heavy metals determination. Microsystem Technologies, 2008, 14, 491-498.	1.2	43
80	Comparative study of electrical properties of nano to polycrystalline diamond films. Journal of Physics: Conference Series, 2008, 100, 052097.	0.3	6
81	Bismuth film electrodes for heavy metals determination. , 2007, , .		1
82	Determination of heavy metals by a mercury-plated diamondlike carbon microelectrode array. Journal of Physics: Conference Series, 2007, 61, 982-986.	0.3	4
83	Effect of argon and substrate bias on diamond thin film surface morphology. Vacuum, 2007, 82, 154-157.	1.6	9
84	Microwave and hot filament chemical vapour deposition of diamond multilayers on Si and WCâ€“Co substrates. Microelectronics Journal, 2007, 38, 20-23.	1.1	7
85	Bismuth-coated diamond-like carbon microelectrodes for heavy metals determination. Sensors and Actuators B: Chemical, 2007, 127, 193-197.	4.0	30
86	The influence of Ni catalyst on the growth of carbon nanotubes on Si substrates. Vacuum, 2006, 81, 22-24.	1.6	8
87	Double bias HF CVD multilayer diamond films on WCâ€“Co cutting tools. Diamond and Related Materials, 2005, 14, 613-616.	1.8	35
88	Diamond icosahedron on a TiN-coated steel substrate. Microelectronics Journal, 2004, 35, 709-712.	1.1	11