

Marian Marton

List of Publications by Year in descending order

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papers

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times ranked

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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.	5.2	8
2	Novel Screen-Printed Sensor with Chemically Deposited Boron-Doped Diamond Electrode: Preparation, Characterization, and Application. <i>Biosensors</i> , 2022, 12, 241.	4.7	10
3	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.	3.9	14
4	Boron doped diamond electrode – The elimination of psychoactive drugs and resistant bacteria from wastewater. <i>Vacuum</i> , 2020, 171, 108957.	3.5	14
5	Nanostructured boron doped diamond enhancing the photoelectrochemical performance of TiO ₂ /BDD heterojunction anodes. <i>Vacuum</i> , 2020, 171, 109006.	3.5	7
6	Influence of boron doped diamond electrodes properties on the elimination of selected pharmaceuticals from wastewater. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 114007.	3.8	8
7	Voltammetric characterization of boron-doped diamond electrodes for electroanalytical applications. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 114020.	3.8	27
8	Inhibition of staphylococci and <i>S. aureus</i> in wastewater by ferrates and electrochemical methods. <i>Acta Chimica Slovaca</i> , 2020, 13, 49-54.	0.8	0
9	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.	3.9	9
10	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.	2.6	0
11	On the ultra-fast ion induced demagnetization in thin films. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
12	Hospital wastewaters treatment: Fenton reaction vs. BDDE vs. ferrate(VI). <i>Environmental Science and Pollution Research</i> , 2019, 26, 31812-31821.	5.3	16
13	Study of self-masking nanostructuring of boron doped diamond films by RF plasma etching. <i>Vacuum</i> , 2019, 170, 108954.	3.5	9
14	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.	1.3	0
15	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.	3.5	32
16	The doping level of boron-doped diamond electrodes affects the voltammetric sensing ofÂuric acid. <i>Analytical Methods</i> , 2018, 10, 991-996.	2.7	31
17	Electron affinity of undoped and boron-doped polycrystalline diamond films. <i>Diamond and Related Materials</i> , 2018, 87, 208-214.	3.9	14
18	The Influence of the Bias on Mechanical Properties of a-C:H CVD Thin Films. <i>Problems of Mechatronics Armament Aviation Safety Engineering</i> , 2018, 9, 23-30.	0.2	0

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19	Electrodeposition of Cuprous Oxide on Boron Doped Diamond Electrodes. Advances in Electrical and Electronic Engineering, 2018, 16, .	0.3	1
20	Monitoring of micropollutants and resistant bacteria in wastewater and their effective removal by boron doped diamond electrode. Monatshefte für Chemie, 2017, 148, 539-548.	1.8	10
21	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
22	Interference enhancement in SERS spectra of rhodamine 6G: Relation to reflectance. Vibrational Spectroscopy, 2017, 90, 31-37.	2.2	13
23	Heavily Boron Doped Diamond Electrodes for Ultra Sensitive Determination of Ciprofloxacin in Human Urine. Electroanalysis, 2017, 29, 1612-1617.	2.9	24
24	Electrochemical and analytical performance of boron-doped diamond electrode for determination of ascorbic acid. Acta Chimica Slovaca, 2017, 10, 21-28.	0.8	7
25	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.	10.3	24
26	Surface and electrochemical characterization of boron-doped diamond electrodes prepared under different conditions. Monatshefte für Chemie, 2016, 147, 1353-1364.	1.8	14
27	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.	1.8	4
28	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
29	Fabrication and Characterization of N-Type Zinc Oxide/P-Type Boron Doped Diamond Heterojunction. Journal of Electrical Engineering, 2015, 66, 277-281.	0.7	3
30	Rapid electrochemical platform for nicotine sensing in cigarettes and chewing gums. Acta Chimica Slovaca, 2015, 8, 166-171.	0.8	10
31	Interactive forms of technical education support in primary and secondary schools. , 2015, , .		4
32	Ohmic Contacts to p-GaN on the Basis of Carbon Nanomaterials. Journal of Electrical Engineering, 2015, 65, 386-389.	0.7	1
33	A study of structural and wear properties of PACVD deposited a-C:H thin films for application as protective layers on Al alloys. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2271-2277.	1.8	7
34	Diamond-coated three-dimensional GaN micromembranes: Effect of nucleation and deposition techniques. Physica Status Solidi (B): Basic Research, 2015, 252, 2585-2590.	1.5	7
35	Application Of Carbon Nanotubes And Reduced Graphene Oxide Layers For Ohmic Contacts To p-GaN. Journal of Electrical Engineering, 2015, 66, 344-347.	0.7	0
36	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

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37	PVC degradation by Fenton reaction and biological decomposition. Polymer Degradation and Stability, 2015, 120, 226-231.	5.8	26
38	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
39	Electrical characterization of diamond films deposited in nitrogen and oxygen containing gas mixture. , 2014, , .		0
40	AlGaIn/GaN micromembranes with diamond coating for high electron mobility transistors operated at high temperatures. , 2014, , .		0
41	Influence of non-diamond carbon phase on recombination mechanisms of photoexcited charge carriers in microcrystalline and nanocrystalline diamond studied by time resolved photoluminescence spectroscopy. Optical Materials Express, 2014, 4, 624.	3.0	19
42	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
43	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
44	Sensitive electrochemical determination of amlodipine in pharmaceutical tablets and human urine using a boron-doped diamond electrode. Journal of Electroanalytical Chemistry, 2014, 728, 86-93.	3.8	87
45	The layers of carbon nanomaterials as the base of ohmic contacts to p-GaN. Applied Surface Science, 2014, 312, 63-67.	6.1	2
46	Deposition of boron doped diamond and carbon nanomaterials on graphite foam electrodes. Applied Surface Science, 2014, 312, 139-144.	6.1	18
47	Structural and electrical characterization of diamond films deposited in nitrogen/oxygen containing gas mixture by linear antenna microwave CVD process. Applied Surface Science, 2014, 312, 226-230.	6.1	11
48	Ohmic Contacts to p-GaN Based on the Single-Walled Carbon Nanotubes. Journal of Electrical Engineering, 2013, 64, 323-326.	0.7	2
49	Improving the Ohmic Properties of Au/Ni-Mg/p-GaN Contacts by Adding Swcnt Metallization Interlayer Between Metal and p-GaN Layers. Journal of Electrical Engineering, 2013, 64, 390-392.	0.7	0
50	Raman Spectroscopy of Amorphous Carbon Prepared by Pulsed Arc Discharge in Various Gas Mixtures. Journal of Spectroscopy, 2013, 2013, 1-6.	1.3	53
51	Relationships between the fretting wear behavior and mechanical properties of thin carbon films. Vacuum, 2012, 86, 675-680.	3.5	10
52	Diamond thin film nucleation on silicon by ultrasonication in various mixtures. Vacuum, 2012, 86, 681-683.	3.5	10
53	Electrochemical corrosion behavior of amorphous carbon nitride thin films. Vacuum, 2012, 86, 696-698.	3.5	4
54	A Raman spectroscopy study on differently deposited DLC layers in pulse arc system. Chemical Papers, 2010, 64, .	2.2	3

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55	Study of adhesion of carbon nitride thin films on medical alloy substrates. Vacuum, 2009, 84, 65-67.	3.5	10
56	Bias enhanced nucleation of diamond thin films in a modified HFCVD reactor. Vacuum, 2009, 84, 49-52.	3.5	27
57	Properties of amorphous carbon layers for bio-tribological applications. Microelectronics Journal, 2009, 40, 650-653.	2.0	3
58	Analysis of catalytic growth of carbon nanotubes by ACCVD method. Journal of Physics: Conference Series, 2008, 100, 072008.	0.4	5
59	Effect of argon and substrate bias on diamond thin film surface morphology. Vacuum, 2007, 82, 154-157.	3.5	9
60	Influence of co-catalyst on growth of carbon nanotubes using alcohol catalytic CVD method. Vacuum, 2007, 82, 134-137.	3.5	10
61	Microwave and hot filament chemical vapour deposition of diamond multilayers on Si and WC-Co substrates. Microelectronics Journal, 2007, 38, 20-23.	2.0	7
62	Double bias HF CVD multilayer diamond films on WC-Co cutting tools. Diamond and Related Materials, 2005, 14, 613-616.	3.9	35