

# Marian Marton

## List of Publications by Year in descending order

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62  
papers

910  
citations

430754

18  
h-index

501076

28  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1188  
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	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
4	Boron doped diamond electrode – The elimination of psychoactive drugs and resistant bacteria from wastewater. <i>Vacuum</i> , 2020, 171, 108957.	1.6	14
5	Nanostructured boron doped diamond enhancing the photoelectrochemical performance of TiO <sub>2</sub> /BDD heterojunction anodes. <i>Vacuum</i> , 2020, 171, 109006.	1.6	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.	1.9	8
7	Voltammetric characterization of boron-doped diamond electrodes for electroanalytical applications. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 114020.	1.9	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.	0.5	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.	1.8	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.	1.5	0
11	On the ultra-fast ion induced demagnetization in thin films. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
12	Hospital wastewaters treatment: Fenton reaction vs. BDDE vs. ferrate(VI). <i>Environmental Science and Pollution Research</i> , 2019, 26, 31812-31821.	2.7	16
13	Study of self-masking nanostructuring of boron doped diamond films by RF plasma etching. <i>Vacuum</i> , 2019, 170, 108954.	1.6	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.	0.6	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.	1.6	32
16	The doping level of boron-doped diamond electrodes affects the voltammetric sensing of folic acid. <i>Analytical Methods</i> , 2018, 10, 991-996.	1.3	31
17	Electron affinity of undoped and boron-doped polycrystalline diamond films. <i>Diamond and Related Materials</i> , 2018, 87, 208-214.	1.8	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.	0.0	0

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19	Electrodeposition of Cuprous Oxide on Boron Doped Diamond Electrodes. <i>Advances in Electrical and Electronic Engineering</i> , 2018, 16, .	0.2	1
20	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
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. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 963-971.	4.0	38
22	Interference enhancement in SERS spectra of rhodamine 6G: Relation to reflectance. <i>Vibrational Spectroscopy</i> , 2017, 90, 31-37.	1.2	13
23	Heavily Boron Doped Diamond Electrodes for Ultra Sensitive Determination of Ciprofloxacin in Human Urine. <i>Electroanalysis</i> , 2017, 29, 1612-1617.	1.5	24
24	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
25	The activity of non-metallic boron-doped diamond electrodes with sub-micron scale heterogeneity and the role of the morphology of sp <sup>2</sup> impurities. <i>Carbon</i> , 2016, 110, 148-154.	5.4	24
26	Surface and electrochemical characterization of boron-doped diamond electrodes prepared under different conditions. <i>Monatshefte für Chemie</i> , 2016, 147, 1353-1364.	0.9	14
27	DNA-modified boron-doped diamond electrode as a simple electrochemical platform for detection of damage to DNA by antihypertensive amlodipine. <i>Monatshefte für Chemie</i> , 2016, 147, 1365-1373.	0.9	4
28	Simple and Rapid Quantification of Folic Acid in Pharmaceutical Tablets using a Cathodically Pretreated Highly Boron-doped Polycrystalline Diamond Electrode. <i>Analytical Letters</i> , 2016, 49, 107-121.	1.0	35
29	Fabrication and Characterization of N-Type Zinc Oxide/P-Type Boron Doped Diamond Heterojunction. <i>Journal of Electrical Engineering</i> , 2015, 66, 277-281.	0.4	3
30	Rapid electrochemical platform for nicotine sensing in cigarettes and chewing gums. <i>Acta Chimica Slovaca</i> , 2015, 8, 166-171.	0.5	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. <i>Journal of Electrical Engineering</i> , 2015, 65, 386-389.	0.4	1
33	A study of structural and wear properties of PACVD deposited aâ€C:H thin films for application as protective layers on Al alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2271-2277.	0.8	7
34	Diamond-coated three-dimensional GaN micromembranes: Effect of nucleation and deposition techniques. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2585-2590.	0.7	7
35	Application Of Carbon Nanotubes And Reduced Graphene Oxide Layers For Ohmic Contacts To pâ€GaN. <i>Journal of Electrical Engineering</i> , 2015, 66, 344-347.	0.4	0
36	Electroanalytical application of a boron-doped diamond electrode for sensitive voltammetric determination of theophylline in pharmaceutical dosages and human urine. <i>Analytical Methods</i> , 2015, 7, 6755-6763.	1.3	20

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37	PVC degradation by Fenton reaction and biological decomposition. <i>Polymer Degradation and Stability</i> , 2015, 120, 226-231.	2.7	26
38	Doping Level of Boron-Doped Diamond Electrodes Controls the Grafting Density of Functional Groups for DNA Assays. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 18949-18956.	4.0	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. <i>Optical Materials Express</i> , 2014, 4, 624.	1.6	19
42	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
43	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
44	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
45	The layers of carbon nanomaterials as the base of ohmic contacts to p-GaN. <i>Applied Surface Science</i> , 2014, 312, 63-67.	3.1	2
46	Deposition of boron doped diamond and carbon nanomaterials on graphite foam electrodes. <i>Applied Surface Science</i> , 2014, 312, 139-144.	3.1	18
47	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
48	Ohmic Contacts to p-GaN Based on the Single-Walled Carbon Nanotubes. <i>Journal of Electrical Engineering</i> , 2013, 64, 323-326.	0.4	2
49	Improving the Ohmic Properties of Au/Ni-Mg/p-GaN Contacts by Adding Swcnt Metallization Interlayer Between Metal and p-GaN Layers. <i>Journal of Electrical Engineering</i> , 2013, 64, 390-392.	0.4	0
50	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
51	Relationships between the fretting wear behavior and mechanical properties of thin carbon films. <i>Vacuum</i> , 2012, 86, 675-680.	1.6	10
52	Diamond thin film nucleation on silicon by ultrasonication in various mixtures. <i>Vacuum</i> , 2012, 86, 681-683.	1.6	10
53	Electrochemical corrosion behavior of amorphous carbon nitride thin films. <i>Vacuum</i> , 2012, 86, 696-698.	1.6	4
54	A Raman spectroscopy study on differently deposited DLC layers in pulse arc system. <i>Chemical Papers</i> , 2010, 64, .	1.0	3

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55	Study of adhesion of carbon nitride thin films on medical alloy substrates. <i>Vacuum</i> , 2009, 84, 65-67.	1.6	10
56	Bias enhanced nucleation of diamond thin films in a modified HFCVD reactor. <i>Vacuum</i> , 2009, 84, 49-52.	1.6	27
57	Properties of amorphous carbon layers for bio-tribological applications. <i>Microelectronics Journal</i> , 2009, 40, 650-653.	1.1	3
58	Analysis of catalytic growth of carbon nanotubes by ACCVD method. <i>Journal of Physics: Conference Series</i> , 2008, 100, 072008.	0.3	5
59	Effect of argon and substrate bias on diamond thin film surface morphology. <i>Vacuum</i> , 2007, 82, 154-157.	1.6	9
60	Influence of co-catalyst on growth of carbon nanotubes using alcohol catalytic CVD method. <i>Vacuum</i> , 2007, 82, 134-137.	1.6	10
61	Microwave and hot filament chemical vapour deposition of diamond multilayers on Si and WC-Co substrates. <i>Microelectronics Journal</i> , 2007, 38, 20-23.	1.1	7
62	Double bias HF CVD multilayer diamond films on WC-Co cutting tools. <i>Diamond and Related Materials</i> , 2005, 14, 613-616.	1.8	35