Marian Marton

List of Publications by Year
in descending order

62	910	430754	501076
papers	citations	18 h-index	28 g-index

62	62	62	1188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	1.9	87
2	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.	1.9	56
3	Raman Spectroscopy of Amorphous Carbon Prepared by Pulsed Arc Discharge in Various Gas Mixtures. Journal of Spectroscopy, 2013, 2013, 1-6.	0.6	53
4	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
5	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.	4.0	38
6	Double bias HF CVD multilayer diamond films on WCâ€“Co cutting tools. Diamond and Related Materials, 2005, 14, 613-616.	1.8	35
7	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
8	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. Vacuum, 2019, 167, 182-188.	1.6	32
9	The doping level of boron-doped diamond electrodes affects the voltammetric sensing ofÂuric acid. Analytical Methods, 2018, 10, 991-996.	1.3	31
10	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.	1.8	29
11	Bias enhanced nucleation of diamond thin films in a modified HFCVD reactor. Vacuum, 2009, 84, 49-52.	1.6	27
12	Voltammetric characterization of boron-doped diamond electrodes for electroanalytical applications. Journal of Electroanalytical Chemistry, 2020, 862, 114020.	1.9	27
13	PVC degradation by Fenton reaction and biological decomposition. Polymer Degradation and Stability, 2015, 120, 226-231.	2.7	26
14	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.	5.4	24
15	Heavily Boron Doped Diamond Electrodes for Ultra Sensitive Determination of Ciprofloxacin in Human Urine. Electroanalysis, 2017, 29, 1612-1617.	1.5	24
16	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
17	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.	1.6	19
18	Deposition of boron doped diamond and carbon nanomaterials on graphite foam electrodes. Applied Surface Science, 2014, 312, 139-144.	3.1	18

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19	Hospital wastewaters treatment: Fenton reaction vs. BDDE vs. ferrate(VI). Environmental Science and Pollution Research, 2019, 26, 31812-31821.	2.7	16
20	Surface and electrochemical characterization of boron-doped diamond electrodes prepared under different conditions. Monatshefte FÃ¼r Chemie, 2016, 147, 1353-1364.	0.9	14
21	Electron affinity of undoped and boron-doped polycrystalline diamond films. Diamond and Related Materials, 2018, 87, 208-214.	1.8	14
22	Boron doped diamond electrode â€“ The elimination of psychoactive drugs and resistant bacteria from wastewater. Vacuum, 2020, 171, 108957.	1.6	14
23	New chemical pathway for large-area deposition of doped diamond films by linear antenna microwave plasma chemical vapor deposition. Diamond and Related Materials, 2022, 126, 109111.	1.8	14
24	Interference enhancement in SERS spectra of rhodamine 6G: Relation to reflectance. Vibrational Spectroscopy, 2017, 90, 31-37.	1.2	13
25	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.	3.1	11
26	Influence of co-catalyst on growth of carbon nanotubes using alcohol catalytic CVD method. Vacuum, 2007, 82, 134-137.	1.6	10
27	Study of adhesion of carbon nitride thin films on medical alloy substrates. Vacuum, 2009, 84, 65-67.	1.6	10
28	Relationships between the fretting wear behavior and mechanical properties of thin carbon films. Vacuum, 2012, 86, 675-680.	1.6	10
29	Diamond thin film nucleation on silicon by ultrasonication in various mixtures. Vacuum, 2012, 86, 681-683.	1.6	10
30	Rapid electrochemical platform for nicotine sensing in cigarettes and chewing gums. Acta Chimica Slovaca, 2015, 8, 166-171.	0.5	10
31	Monitoring of micropollutants and resistant bacteria in wastewater and their effective removal by boron doped diamond electrode. Monatshefte FÃ¼r Chemie, 2017, 148, 539-548.	0.9	10
32	Novel Screen-Printed Sensor with Chemically Deposited Boron-Doped Diamond Electrode: Preparation, Characterization, and Application. Biosensors, 2022, 12, 241.	2.3	10
33	Effect of argon and substrate bias on diamond thin film surface morphology. Vacuum, 2007, 82, 154-157.	1.6	9
34	Stability of the surface termination of nanocrystalline diamond and diamond-like carbon films exposed to open air conditions. Diamond and Related Materials, 2019, 100, 107562.	1.8	9
35	Study of self-masking nanostructuring of boron doped diamond films by RF plasma etching. Vacuum, 2019, 170, 108954.	1.6	9
36	Influence of boron doped diamond electrodes properties on the elimination of selected pharmaceuticals from wastewater. Journal of Electroanalytical Chemistry, 2020, 862, 114007.	1.9	8

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37	Novel screen-printed sensors with chemically deposited boron-doped diamond and their use for voltammetric determination of attention deficit hyperactivity disorder medication atomoxetine. Electrochimica Acta, 2022, 403, 139642.	2.6	8
38	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
39	A study of structural and wear properties of PACVD deposited aâ€C:H thin films for application as protective layers on Al alloys. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2271-2277.	0.8	7
40	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
41	Electrochemical and analytical performance of boron-doped diamond electrode for determination of ascorbic acid. Acta Chimica Slovaca, 2017, 10, 21-28.	0.5	7
42	Nanostructured boron doped diamond enhancing the photoelectrochemical performance of TiO2/BDD heterojunction anodes. Vacuum, 2020, 171, 109006.	1.6	7
43	Analysis of catalytic growth of carbon nanotubes by ACCVD method. Journal of Physics: Conference Series, 2008, 100, 072008.	0.3	5
44	Electrochemical corrosion behavior of amorphous carbon nitride thin films. Vacuum, 2012, 86, 696-698.	1.6	4
45	Interactive forms of technical education support in primary and secondary schools. , 2015, , .		4
46	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.	0.9	4
47	Properties of amorphous carbon layers for bio-tribological applications. Microelectronics Journal, 2009, 40, 650-653.	1.1	3
48	A Raman spectroscopy study on differently deposited DLC layers in pulse arc system. Chemical Papers, 2010, 64, .	1.0	3
49	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
50	Ohmic Contacts to Pâ€“GaN Based on the Singleâ€“Walled Carbon Nanotubes. Journal of Electrical Engineering, 2013, 64, 323-326.	0.4	2
51	The layers of carbon nanomaterials as the base of ohmic contacts to p-GaN. Applied Surface Science, 2014, 312, 63-67.	3.1	2
52	Ohmic Conacts to p-GaN on the Basis of Carbon Nanomaterials. Journal of Electrical Engineering, 2015, 65, 386-389.	0.4	1
53	Electrodeposition of Cuprous Oxide on Boron Doped Diamond Electrodes. Advances in Electrical and Electronic Engineering, 2018, 16, .	0.2	1
54	Improving the Ohmic Properties of Au/Niâ€“Mg/Pâ€“GaN Contacts by Adding Swcnt Metallization Interlayer Between Metal and Pâ€“GaN Layers. Journal of Electrical Engineering, 2013, 64, 390-392.	0.4	0

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55	Electrical characterization of diamond films deposited in nitrogen and oxygen containing gas mixture. , 2014, , .		0
56	AlGaN/GaN micromembranes with diamond coating for high electron mobility transistors operated at high temperatures. , 2014, , .		0
57	Application Of Carbon Nanotubes And Reduced Graphene Oxide Layers For Ohmic Contacts To pâ€“GaN. Journal of Electrical Engineering, 2015, 66, 344-347.	0.4	0
58	Comparison of Al and Cu masks used for patterning boron-doped diamonds in oxygen plasma. Journal of Micromechanics and Microengineering, 2019, 29, 124004.	1.5	0
59	On the ultra-fast ion induced demagnetization in thin films. AIP Conference Proceedings, 2019, , .	0.3	0
60	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. AIP Advances, 2019, 9, 095044.	0.6	0
61	The Influence of the Bias on Mechanical Properties of a-C:H CVD Thin Films. Problems of Mechatronics Armament Aviation Safety Engineering, 2018, 9, 23-30.	0.0	0
62	Inhibition of staphylococci and S. aureus in wastewater by ferrates and electrochemical methods. Acta Chimica Slovaca, 2020, 13, 49-54.	0.5	0