

Michal Sobaszek

List of Publications by Year in descending order

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54
papers

1,425
citations

304602

22
h-index

330025

37
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54
all docs

54
docs citations

54
times ranked

1561
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of the boron doping level on the electrochemical oxidation of the azo dyes at Si/BDD thin film electrodes. <i>Diamond and Related Materials</i> , 2013, 39, 82-88.	1.8	116
2	A rapid-response ultrasensitive biosensor for influenza virus detection using antibody modified boron-doped diamond. <i>Scientific Reports</i> , 2017, 7, 15707.	1.6	107
3	Electrochemical oxidation of PFOA and PFOS in landfill leachates at low and highly boron-doped diamond electrodes. <i>Journal of Hazardous Materials</i> , 2021, 403, 123606.	6.5	106
4	Boron-Enhanced Growth of Micron-Scale Carbon-Based Nanowalls: A Route toward High Rates of Electrochemical Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12982-12992.	4.0	75
5	Enhanced capacitance of composite TiO ₂ nanotube/boron-doped diamond electrodes studied by impedance spectroscopy. <i>Nanoscale</i> , 2015, 7, 551-558.	2.8	59
6	Study on surface termination of boron-doped diamond electrodes under anodic polarization in H ₂ SO ₄ by means of dynamic impedance technique. <i>Carbon</i> , 2016, 96, 1093-1105.	5.4	58
7	Comparison of the paracetamol electrochemical determination using boron-doped diamond electrode and boron-doped carbon nanowalls. <i>Biosensors and Bioelectronics</i> , 2019, 126, 308-314.	5.3	56
8	Biomolecular influenza virus detection based on the electrochemical impedance spectroscopy using the nanocrystalline boron-doped diamond electrodes with covalently bound antibodies. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 263-271.	4.0	54
9	Diamond Phase (sp ³ -rich) Boron-Doped Carbon Nanowalls (sp ² -rich): Physicochemical and Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20821-20833.	1.5	53
10	Poly-L-lysine-modified boron-doped diamond electrodes for the amperometric detection of nucleic acid bases. <i>Journal of Electroanalytical Chemistry</i> , 2015, 756, 84-93.	1.9	52
11	Optical Monitoring of Electrochemical Processes With ITO-Based Lossy-Mode Resonance Optical Fiber Sensor Applied as an Electrode. <i>Journal of Lightwave Technology</i> , 2018, 36, 954-960.	2.7	51
12	Influence of the boron doping level on the electrochemical oxidation of raw landfill leachates: Advanced pre-treatment prior to the biological nitrogen removal. <i>Chemical Engineering Journal</i> , 2018, 334, 1074-1084.	6.6	49
13	Optical and electrical properties of ultrathin transparent nanocrystalline boron-doped diamond electrodes. <i>Optical Materials</i> , 2015, 42, 24-34.	1.7	46
14	Optical and electrical properties of boron doped diamond thin conductive films deposited on fused silica glass substrates. <i>Applied Surface Science</i> , 2016, 387, 846-856.	3.1	43
15	Improved surface coverage of an optical fibre with nanocrystalline diamond by the application of dip-coating seeding. <i>Diamond and Related Materials</i> , 2015, 55, 52-63.	1.8	37
16	Fabrication and characterization of composite TiO ₂ nanotubes/boron-doped diamond electrodes towards enhanced supercapacitors. <i>Thin Solid Films</i> , 2016, 601, 35-40.	0.8	35
17	Melamine- ϵ -modified Boron-doped Diamond towards Enhanced Detection of Adenine, Guanine and Caffeine. <i>Electroanalysis</i> , 2016, 28, 211-221.	1.5	33
18	Carbon nanowalls: a new versatile graphene based interface for the laser desorption/ionization-mass spectrometry detection of small compounds in real samples. <i>Nanoscale</i> , 2017, 9, 9701-9715.	2.8	32

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19	Amperometric sensing of chemical oxygen demand at glassy carbon and silicon electrodes modified with boron-doped diamond. <i>Sensors and Actuators B: Chemical</i> , 2013, 189, 30-36.	4.0	31
20	Dynamic Electrochemical Impedance Spectroscopy (DEIS) as a Tool for Analyzing Surface Oxidation Processes on Boron-Doped Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 2014, 161, H359-H364.	1.3	31
21	Optical Detection of Ketoprofen by Its Electropolymerization on an Indium Tin Oxide-Coated Optical Fiber Probe. <i>Sensors</i> , 2018, 18, 1361.	2.1	23
22	Formation of Highly Conductive Boron-Doped Diamond on TiO ₂ Nanotubes Composite for Supercapacitor or Energy Storage Devices. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2085-A2092.	1.3	22
23	Growth and Isolation of Large Area Boron-Doped Nanocrystalline Diamond Sheets: A Route toward Diamond-Graphene Heterojunction. <i>Advanced Functional Materials</i> , 2019, 29, 1805242.	7.8	22
24	Nucleation and growth of CVD diamond on fused silica optical fibres with titanium dioxide interlayer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1991-1997.	0.8	21
25	Multisine impedimetric probing of biocatalytic reactions for label-free detection of DEFB1 gene: How to verify that your dog is not human?. <i>Sensors and Actuators B: Chemical</i> , 2020, 323, 128664.	4.0	19
26	Fabrication and characterization of boron-doped nanocrystalline diamond-coated MEMS probes. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	18
27	Enhanced electrochemical kinetics of highly-oriented (111)-textured boron-doped diamond electrodes induced by deuterium plasma chemistry. <i>Carbon</i> , 2021, 174, 594-604.	5.4	16
28	Enhancing electrochemical properties of an ITO-coated lossy-mode resonance optical fiber sensor by electrodeposition of PEDOT:PSS. <i>Optical Materials Express</i> , 2019, 9, 3069.	1.6	16
29	Determination of Chemical Oxygen Demand (COD) at Boron-doped Diamond (BDD) Sensor by Means of Amperometric Technique. <i>Procedia Engineering</i> , 2012, 47, 1117-1120.	1.2	15
30	The electrochemical determination of isatin at nanocrystalline boron-doped diamond electrodes: Stress monitoring of animals. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127592.	4.0	14
31	Multifrequency nanoscale impedance microscopy (m-NIM): A novel approach towards detection of selective and subtle modifications on the surface of polycrystalline boron-doped diamond electrodes. <i>Ultramicroscopy</i> , 2019, 199, 34-45.	0.8	12
32	Enhanced Charge Storage Mechanism and Long-Term Cycling Stability in Diamondized Titania Nanocomposite Supercapacitors Operating in Aqueous Electrolytes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15698-15712.	1.5	11
33	Opto-Electrochemical Sensing Device Based on Long-Period Grating Coated with Boron-Doped Diamond Thin Film. <i>Journal of the Optical Society of Korea</i> , 2015, 19, 705-710.	0.6	11
34	Optically transparent boron-doped nanocrystalline diamond films for spectroelectrochemical measurements on different substrates. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 104, 012024.	0.3	10
35	Nitrogen-Doped Diamond Film for Optical Investigation of Hemoglobin Concentration. <i>Materials</i> , 2018, 11, 109.	1.3	10
36	Spectroscopic wireless sensor of hematocrit level. <i>Sensors and Actuators A: Physical</i> , 2013, 202, 8-12.	2.0	7

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37	Electrochemical Stability of Few-Layered Phosphorene Flakes on Boron-Doped Diamond: A Wide Potential Range of Studies in Aqueous Solutions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20233-20240.	1.5	7
38	Electrochemical Detection of 4,4'-Tetrahydro-5,5'-Tetranitro-1H,1H'-Biimidazole on Boron-Doped Diamond/Graphene Nanowall Electrodes. <i>IEEE Sensors Journal</i> , 2020, 20, 9637-9643.	2.4	6
39	Gas Composition Influence on the Properties of Boron-Doped Diamond Films Deposited on the Fused Silica. <i>Materials Science-Poland</i> , 2018, 36, 288-296.	0.4	6
40	Electrochemical oxidation of landfill leachate using boron-doped diamond anodes: pollution degradation rate, energy efficiency and toxicity assessment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 65625-65641.	2.7	6
41	Enhanced boron doping of thin diamond films grown in deuterium-rich microwave plasma. <i>Diamond and Related Materials</i> , 2019, 96, 198-206.	1.8	5
42	Spatial characterization of H ₂ :CH ₄ dissociation level in microwave ECR plasma source by fibre-optic OES. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2223-2232.	1.2	4
43	Ligand-Modified Boron-Doped Diamond Surface: DFT Insights into the Electronic Properties of Biofunctionalization. <i>Materials</i> , 2019, 12, 2910.	1.3	4
44	In-situ monitoring of electropolymerization processes at boron-doped diamond electrodes by Mach-Zehnder interferometer. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127315.	4.0	4
45	Kinetics of the Organic Compounds and Ammonium Nitrogen Electrochemical Oxidation in Landfill Leachates at Boron-Doped Diamond Anodes. <i>Materials</i> , 2021, 14, 4971.	1.3	4
46	Optimization of Polycrystalline CVD Diamond Seeding with the Use of sp ³ /sp ² Raman Band Ratio. <i>Acta Physica Polonica A</i> , 2015, 128, 136-140.	0.2	3
47	Spectroscopic and Wireless Sensor of Hematocrit Level. <i>Procedia Engineering</i> , 2012, 47, 156-159.	1.2	2
48	Development of novel (BiO) ₂ OHCl/BiOBr enriched with boron doped-carbon nanowalls for photocatalytic cytostatic drug degradation: assessing photocatalytic process utilization in environmental condition. <i>Applied Surface Science</i> , 2022, , 152664.	3.1	2
49	Nanocrystalline diamond microelectrode on fused silica optical fibers for electrochemical and optical sensing. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
50	Annealing of indium tin oxide (ITO) coated optical fibers for optical and electrochemical sensing purposes. , 2016, , .		0
51	Biophotonic low-coherence sensors with boron-doped diamond thin layer. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
52	Optical monitoring of thin film electro-polymerization on surface of ITO-coated lossy-mode resonance sensor. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
53	Deuterium-Grown Highly-Oriented Boron-Doped Diamond Electrodes. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1934-1934.	0.0	0
54	Boron-Doped Diamond/GaN Heterojunction – The Influence of the Low-Temperature Deposition. <i>Materials</i> , 2021, 14, 6328.	1.3	0