

Robert Bogdanowicz

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

906
citations

516710

16
h-index

501196

28
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51
all docs

51
docs citations

51
times ranked

928
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-pathway mechanism of polydopamine film formation at vertically aligned diamondised boron-doped carbon nanowalls. <i>Electrochimica Acta</i> , 2022, 409, 140000.	5.2	8
2	Development of novel (BiO)2OHCl/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.	6.1	2
3	Electrochemical Detection of Plant Pathogens Using Boron-Doped Carbon Nanowalls Immunosensor. <i>IEEE Sensors Journal</i> , 2022, 22, 7562-7571.	4.7	0
4	Influence of B/N co-doping on electrical and photoluminescence properties of CVD grown homoepitaxial diamond films. <i>Nanotechnology</i> , 2022, 33, 125603.	2.6	5
5	Highly selective impedimetric determination of Haemophilus influenzae protein D using maze-like boron-doped carbon nanowall electrodes. <i>Talanta</i> , 2021, 221, 121623.	5.5	15
6	Enhanced electrochemical kinetics of highly-oriented (111)-textured boron-doped diamond electrodes induced by deuterium plasma chemistry. <i>Carbon</i> , 2021, 174, 594-604.	10.3	16
7	Stable Field Electron Emission and Plasma Illumination from Boron and Nitrogen Co-Doped Edge-Rich Diamond-Enhanced Carbon Nanowalls. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100464.	3.7	9
8	Simultaneous opto-electrochemical monitoring of carbamazepine and its electro-oxidation by-products in wastewater. <i>Journal of Hazardous Materials</i> , 2021, 419, 126509.	12.4	15
9	Nitrogen-Incorporated Boron-Doped Nanocrystalline Diamond Nanowires for Microplasma Illumination. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55687-55699.	8.0	9
10	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.	7.8	4
11	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.	7.8	14
12	Enhanced photocatalytic activity of transparent carbon nanowall/TiO2 heterostructures. <i>Materials Letters</i> , 2020, 262, 127155.	2.6	7
13	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.	7.8	19
14	Electrochemical performance of thin free-standing boron-doped diamond nanosheet electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 114016.	3.8	23
15	Single-step grown boron doped nanocrystalline diamond-carbon nanogress hybrid as an efficient supercapacitor electrode. <i>Nanoscale</i> , 2020, 12, 10117-10126.	5.6	23
16	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.	3.1	11
17	High-Temperature Oxidation of Heavy Boron-Doped Diamond Electrodes: Microstructural and Electrochemical Performance Modification. <i>Materials</i> , 2020, 13, 964.	2.9	14
18	Electrochemical Detection of 4,4'- TM ,5,5'-Tetranitro-1H,1'- TM H-2,2'- TM -Biimidazole on Boron-Doped Diamond/Graphene Nanowall Electrodes. <i>IEEE Sensors Journal</i> , 2020, 20, 9637-9643.	4.7	6

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19	pH-Dependency of the Physical Properties of the Nitrogen-Vacancy Centers in Diamonds. , 2020, , .		1
20	Electrochemical performance of indium-tin-oxide-coated lossy-mode resonance optical fiber sensor. Sensors and Actuators B: Chemical, 2019, 301, 127043.	7.8	25
21	Ligand-Modified Boron-Doped Diamond Surface: DFT Insights into the Electronic Properties of Biofunctionalization. Materials, 2019, 12, 2910.	2.9	4
22	3D Hierarchical Boron-Doped Diamond-Multilayered Graphene Nanowalls as an Efficient Supercapacitor Electrode. Journal of Physical Chemistry C, 2019, 123, 15458-15466.	3.1	35
23	Tailoring Electro/Optical Properties of Transparent Boron-Doped Carbon Nanowalls Grown on Quartz. Materials, 2019, 12, 547.	2.9	15
24	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. Ultramicroscopy, 2019, 199, 34-45.	1.9	12
25	Boron-Doped Nanocrystalline Diamondâ€“Carbon Nanospire Hybrid Electron Emission Source. ACS Applied Materials & Interfaces, 2019, 11, 48612-48623.	8.0	13
26	Heterogeneous oxidation of highly boron-doped diamond electrodes and its influence on the surface distribution of electrochemical activity. Electrochimica Acta, 2019, 297, 1018-1027.	5.2	37
27	Enhancing electrochemical properties of an ITO-coated lossy-mode resonance optical fiber sensor by electrodeposition of PEDOT:PSS. Optical Materials Express, 2019, 9, 3069.	3.0	16
28	Triboenvironment Dependent Chemical Modification of Sliding Interfaces in Ultrananocrystalline Diamond Nanowall Film: Correlation with Friction and Wear. Journal of Physical Chemistry C, 2018, 122, 945-956.	3.1	22
29	Self-organized multi-layered grapheneâ€“boron-doped diamond hybrid nanowalls for high-performance electron emission devices. Nanoscale, 2018, 10, 1345-1355.	5.6	57
30	Nanolayers in Fiber-Optic Biosensing. , 2018, , 395-426.		3
31	Gas Composition Influence on the Properties of Boron-Doped Diamond Films Deposited on the Fused Silica. Materials Science-Poland, 2018, 36, 288-296.	1.0	6
32	DFT studies of refractive index of boron-doped diamond. Photonics Letters of Poland, 2018, 10, 39.	0.4	8
33	Studies on optical transmittance of boron-doped nanocrystalline diamond films. Photonics Letters of Poland, 2018, 10, 88.	0.4	2
34	Ab-initio study of electrical and optical properties of allylamine. Photonics Letters of Poland, 2018, 10, 94.	0.4	1
35	Chemical-Assisted Mechanical Lapping of Thin Boron-Doped Diamond Films: A Fast Route Toward High Electrochemical Performance for Sensing Devices. Electrochimica Acta, 2017, 242, 268-279.	5.2	12
36	Charge-based deep level transient spectroscopy of B-doped and undoped polycrystalline diamond films. Journal of Materials Science, 2017, 52, 10119-10126.	3.7	7

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37	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.	8.0	75
38	Heterogeneous distribution of surface electrochemical activity in polycrystalline highly boron-doped diamond electrodes under deep anodic polarization. <i>Electrochemistry Communications</i> , 2017, 83, 41-45.	4.7	11
39	A rapid-response ultrasensitive biosensor for influenza virus detection using antibody modified boron-doped diamond. <i>Scientific Reports</i> , 2017, 7, 15707.	3.3	107
40	Preparation of fluorescent nanodiamond suspensions using bead-assisted ultrasonic disintegration. , 2017, , .		0
41	Ellipsometric investigation of nitrogen doped diamond thin films grown in microwave CH ₄ /H ₂ /N ₂ plasma enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	32
42	Smart Engineering of New Materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1107-1108.	1.8	0
43	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.	10.3	58
44	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.	3.9	37
45	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
46	Characterization of Optical and Electrical Properties of Transparent Conductive Boron-Doped Diamond thin Films Grown on Fused Silica. <i>Metrology and Measurement Systems</i> , 2014, 21, 685-698.	1.4	24
47	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.	2.9	31
48	Nucleation and growth of <scp>CVD</scp> diamond on fused silica optical fibres with titanium dioxide interlayer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1991-1997.	1.8	21
49	Electrochemical oxidation of sulphamerazine at boron-doped diamond electrodes: Influence of boron concentration. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2040-2047.	1.8	16
50	Chromatic monitoring technique for thickness measurement of thin transparent films. , 2003, , .		0
51	Experiments in Benchmarking Relational Database Machines. , 1983, , 106-134.		7