

Philippe Bergonzo

List of Publications by Year in descending order

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292
papers

6,941
citations

61857

43
h-index

102304

66
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295
all docs

295
docs citations

295
times ranked

6309
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong Coupling of a Spin Ensemble to a Superconducting Resonator. <i>Physical Review Letters</i> , 2010, 105, 140502.	2.9	541
2	Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds. <i>Physical Review B</i> , 2010, 82, .	1.1	233
3	Surface properties of hydrogenated nanodiamonds: a chemical investigation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11517.	1.3	116
4	Early stages of surface graphitization on nanodiamond probed by x-ray photoelectron spectroscopy. <i>Physical Review B</i> , 2011, 84, .	1.1	116
5	Carboxylated nanodiamonds are neither cytotoxic nor genotoxic on liver, kidney, intestine and lung human cell lines. <i>Nanotoxicology</i> , 2014, 8, 46-56.	1.6	116
6	3D-nanostructured boron-doped diamond for microelectrode array neural interfacing. <i>Biomaterials</i> , 2015, 53, 173-183.	5.7	108
7	Charge transport in high mobility single crystal diamond. <i>Diamond and Related Materials</i> , 2008, 17, 1235-1240.	1.8	100
8	Fermi level on hydrogen terminated diamond surfaces. <i>Applied Physics Letters</i> , 2003, 82, 2266-2268.	1.5	99
9	Hydrogenation of nanodiamonds using MPCVD: A new route toward organic functionalization. <i>Diamond and Related Materials</i> , 2010, 19, 1117-1123.	1.8	98
10	Electrostatic Grafting of Diamond Nanoparticles: A Versatile Route to Nanocrystalline Diamond Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2738-2746.	4.0	96
11	Hydrogen-induced transport properties of holes in diamond surface layers. <i>Applied Physics Letters</i> , 2001, 79, 4541-4543.	1.5	77
12	Superconductive B-doped nanocrystalline diamond thin films: Electrical transport and Raman spectra. <i>Applied Physics Letters</i> , 2006, 88, 232111.	1.5	77
13	Porous diamond with high electrochemical performance. <i>Carbon</i> , 2015, 90, 102-109.	5.4	71
14	Improving diamond detectors: A device case. <i>Diamond and Related Materials</i> , 2007, 16, 1038-1043.	1.8	69
15	Boosting the electrochemical properties of diamond electrodes using carbon nanotube scaffolds. <i>Carbon</i> , 2014, 71, 27-33.	5.4	67
16	Solar blind chemically vapor deposited diamond detectors for vacuum ultraviolet pulsed light-source characterization. <i>Journal of Applied Physics</i> , 1998, 84, 5331-5336.	1.1	65
17	Stability of H-terminated BDD electrodes: an insight into the influence of the surface preparation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 2931-2939.	0.8	65
18	Surface transfer doping can mediate both colloidal stability and self-assembly of nanodiamonds. <i>Nanoscale</i> , 2013, 5, 8958.	2.8	65

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19	Proton irradiation of CVD diamond detectors for high-luminosity experiments at the LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 426, 173-180.	0.7	61
20	Oxygen hole doping of nanodiamond. Nanoscale, 2012, 4, 6792.	2.8	61
21	Review of the development of diamond radiation sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 434, 131-145.	0.7	60
22	Enhanced control of diamond nanoparticle seeding using a polymer matrix. Journal of Applied Physics, 2009, 106, .	1.1	59
23	Low temperature properties of the p-type surface conductivity of diamond. Diamond and Related Materials, 2002, 11, 351-354.	1.8	57
24	Radiation detection devices made from CVD diamond. Semiconductor Science and Technology, 2003, 18, S105-S112.	1.0	53
25	Diamond nanoseeding on silicon: Stability under H ₂ MPCVD exposures and early stages of growth. Diamond and Related Materials, 2008, 17, 1143-1149.	1.8	53
26	Electrochemical diamond sensors for TNT detection in water. Electrochimica Acta, 2009, 54, 5688-5693.	2.6	53
27	3D shaped mechanically flexible diamond microelectrode arrays for eye implant applications: The MEDINAS project. Irbm, 2011, 32, 91-94.	3.7	53
28	Synthetic 3D diamond-based electrodes for flexible retinal neuroprostheses: Model, production and in vivo biocompatibility. Biomaterials, 2015, 67, 73-83.	5.7	53
29	Laser-processed three dimensional graphitic electrodes for diamond radiation detectors. Applied Physics Letters, 2013, 103, .	1.5	50
30	Direct photo-deposition of silicon dioxide films using a xenon excimer lamp. Applied Surface Science, 1993, 69, 393-397.	3.1	49
31	Three-dimensional electrode arrays for retinal prostheses: modeling, geometry optimization and experimental validation. Journal of Neural Engineering, 2011, 8, 046020.	1.8	49
32	Patterned neuronal networks using nanodiamonds and the effect of varying nanodiamond properties on neuronal adhesion and outgrowth. Journal of Neural Engineering, 2013, 10, 056022.	1.8	49
33	Influence of the environment on the surface conductivity of chemical vapor deposition diamond. Diamond and Related Materials, 2002, 11, 856-860.	1.8	47
34	A new single crystal diamond dosimeter for small beam: comparison with different commercial active detectors. Physics in Medicine and Biology, 2013, 58, 7647-7660.	1.6	47
35	Grafting odorant binding proteins on diamond bio-MEMS. Biosensors and Bioelectronics, 2014, 60, 311-317.	5.3	47
36	Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation. Journal of Luminescence, 2010, 130, 1655-1658.	1.5	46

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37	Quasi-Real Time Quantification of Uric Acid in Urine Using Boron Doped Diamond Microelectrode with <i>In Situ</i> Cleaning. <i>Analytical Chemistry</i> , 2012, 84, 10207-10213.	3.2	45
38	Boron-Doped Nanocrystalline Diamond Microelectrode Arrays Monitor Cardiac Action Potentials. <i>Advanced Healthcare Materials</i> , 2014, 3, 283-289.	3.9	45
39	Single crystal CVD diamond membranes for betavoltaic cells. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	45
40	Requirements for synthetic diamond devices for radiotherapy dosimetry applications. <i>Diamond and Related Materials</i> , 2004, 13, 2046-2051.	1.8	44
41	Boron acceptor concentration in diamond from excitonic recombination intensities. <i>Physical Review B</i> , 2011, 83, .	1.1	44
42	Super-thin single crystal diamond membrane radiation detectors. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	44
43	Low pressure photodeposition of silicon nitride films using a xenon excimer lamp. <i>Applied Physics Letters</i> , 1993, 63, 1757-1759.	1.5	43
44	High aspect ratio diamond microelectrode array for neuronal activity measurements. <i>Diamond and Related Materials</i> , 2008, 17, 1399-1404.	1.8	43
45	Multichannel Boron Doped Nanocrystalline Diamond Ultramicroelectrode Arrays: Design, Fabrication and Characterization. <i>Sensors</i> , 2012, 12, 7669-7681.	2.1	43
46	A 3D diamond detector for particle tracking. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 786, 97-104.	0.7	43
47	CVD diamond for radiation detection devices. <i>Diamond and Related Materials</i> , 2001, 10, 631-638.	1.8	42
48	Peptide nucleic acid-nanodiamonds: covalent and stable conjugates for DNA targeting. <i>RSC Advances</i> , 2014, 4, 3566-3572.	1.7	42
49	Diamond detectors for high energy physics experiments. <i>Journal of Instrumentation</i> , 2018, 13, C01029-C01029.	0.5	42
50	Neutron Detectors Made From Chemically Vapour Deposited Semiconductors. <i>Materials Research Society Symposia Proceedings</i> , 1997, 487, 591.	0.1	41
51	The development of diamond tracking detectors for the LHC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 514, 79-86.	0.7	41
52	Surface electronic states of the partially hydrogenated diamond C(100) $\sqrt{2}\times\sqrt{2}$ -1H surface. <i>Physical Review B</i> , 2001, 63, .	1.1	40
53	Fabrication of in-plane gate transistors on hydrogenated diamond surfaces. <i>Applied Physics Letters</i> , 2003, 82, 988-990.	1.5	39
54	New sensitive coating based on modified diamond nanoparticles for chemical SAW sensors. <i>Sensors and Actuators B: Chemical</i> , 2011, 154, 238-244.	4.0	39

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55	Diamond porous membranes: A material toward analytical chemistry. <i>Diamond and Related Materials</i> , 2015, 55, 123-130.	1.8	39
56	Improved adhesion, growth and maturation of human bone-derived cells on nanocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2146-2153.	0.8	38
57	Nanocrystalline diamond photonics platform with high quality factor photonic crystal cavities. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	38
58	Biocompatibility of nanostructured boron doped diamond for the attachment and proliferation of human neural stem cells. <i>Journal of Neural Engineering</i> , 2015, 12, 066016.	1.8	38
59	Thermally stimulated current investigations on diamond x-ray detectors. <i>Journal of Applied Physics</i> , 2000, 87, 3360-3364.	1.1	37
60	Diamond UV detectors for future solar physics missions. <i>Diamond and Related Materials</i> , 2001, 10, 673-680.	1.8	37
61	Metalloporphyrin-functionalised diamond nano-particles as sensitive layer for nitroaromatic vapours detection at room-temperature. <i>Sensors and Actuators B: Chemical</i> , 2010, 151, 191-197.	4.0	37
62	Distinctive Glial and Neuronal Interfacing on Nanocrystalline Diamond. <i>PLoS ONE</i> , 2014, 9, e92562.	1.1	37
63	Pulse height distribution and radiation tolerance of CVD diamond detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 447, 244-250.	0.7	36
64	Resistivity of boron doped diamond. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 202-204.	1.2	36
65	Boron doped diamond biotechnology: from sensors to neurointerfaces. <i>Faraday Discussions</i> , 2014, 172, 47-59.	1.6	36
66	Influence of the growth parameters on the electrical properties of thin polycrystalline CVD diamond films. <i>Diamond and Related Materials</i> , 2000, 9, 1086-1090.	1.8	35
67	CVD diamond for nuclear detection applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 476, 694-700.	0.7	34
68	CVD diamond-based semi-transparent beam-position monitors for synchrotron beamlines: preliminary studies and device developments at CEA/Saclay. <i>Journal of Synchrotron Radiation</i> , 2006, 13, 151-158.	1.0	34
69	High mobility single crystal diamond detectors for dosimetry: Application to radiotherapy. <i>Diamond and Related Materials</i> , 2008, 17, 1297-1301.	1.8	34
70	Development of a novel large area excimer lamp for direct photo deposition of thin films. <i>Applied Surface Science</i> , 1992, 54, 424-429.	3.1	33
71	Rapid photochemical deposition of silicon dioxide films using an excimer lamp. <i>Journal of Applied Physics</i> , 1994, 76, 4372-4376.	1.1	33
72	Diamond as a tool for synchrotron radiation monitoring: beam position, profile, and temporal distribution. <i>Diamond and Related Materials</i> , 2000, 9, 960-964.	1.8	32

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73	Chapter 6 Diamond-based radiation and photon detectors. Semiconductors and Semimetals, 2004, , 197-309.	0.4	32
74	Thermal stability and surface modifications of detonation diamond nanoparticles studied with X-ray photoelectron spectroscopy. Diamond and Related Materials, 2010, 19, 846-853.	1.8	32
75	Post-growth treatments and contact formation on CVD diamond films for electronic applications. Diamond and Related Materials, 1998, 7, 951-956.	1.8	31
76	Transparent diamond-conducting glass micro-electrode arrays for ex vivo neuronal study. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2126-2129.	0.8	31
77	Diamond-based semi-transparent beam-position monitor for synchrotron radiation applications. Journal of Synchrotron Radiation, 1999, 6, 1-5.	1.0	30
78	Influence of the postplasma process conditions on the surface conductivity of hydrogenated diamond surfaces. Journal of Applied Physics, 2003, 93, 2700-2704.	1.1	30
79	CVD diamond for thermoluminescence dosimetry: optimisation of the readout process and application. Diamond and Related Materials, 2004, 13, 796-801.	1.8	30
80	Recent improvements on the use of CVD diamond ionisation chambers for radiotherapy applications. Diamond and Related Materials, 2006, 15, 811-814.	1.8	30
81	Hydrogen diffusion and stability in polycrystalline CVD undoped diamond. Diamond and Related Materials, 2001, 10, 405-410.	1.8	29
82	Time of flight study of high performance CVD diamond detector devices. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3023-3029.	0.8	29
83	Tritium labeling of detonation nanodiamonds. Chemical Communications, 2014, 50, 2916-2918.	2.2	29
84	Corrosion hard CVD diamond alpha particle detectors for nuclear liquid source monitoring. Diamond and Related Materials, 2000, 9, 1003-1007.	1.8	28
85	Particle and Radiation Detectors Based on Diamond. Physica Status Solidi A, 2001, 185, 167-181.	1.7	28
86	Low Temperature Surface Conductivity of Hydrogenated Diamond. Physica Status Solidi A, 2001, 186, 241-247.	1.7	28
87	Clinical studies of optimised single crystal and polycrystalline diamonds for radiotherapy dosimetry. Radiation Measurements, 2008, 43, 933-938.	0.7	28
88	Selective nucleation in silicon moulds for diamond MEMS fabrication. Journal of Micromechanics and Microengineering, 2009, 19, 074015.	1.5	28
89	Future Diamond UV Imagers For Solar Physics. Physica Status Solidi A, 2000, 181, 141-149.	1.7	27
90	Radiation tolerance of CVD diamond detectors for pions and protons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 476, 686-693.	0.7	27

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91	Effect of diamond nucleation process on propagation losses of AlN/diamond SAW filter. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1704-1709.	1.7	27
92	High reactivity and stability of diamond electrodes: The influence of the B-doping concentration. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2063-2069.	0.8	27
93	Silicon-On-Diamond layer integration by wafer bonding technology. Diamond and Related Materials, 2010, 19, 796-805.	1.8	27
94	Boron incorporation issues in diamond when TMB is used as precursor: Toward extreme doping levels. Diamond and Related Materials, 2012, 22, 136-141.	1.8	27
95	CVD diamond detectors for ionizing radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 435, 194-201.	0.7	26
96	Thermoluminescence Characteristics of a New Production of Chemical Vapour Deposition Diamond. Radiation Protection Dosimetry, 1999, 84, 201-205.	0.4	26
97	Status of the R&D activity on diamond particle detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 511, 124-131.	0.7	26
98	Heteroepitaxial diamond on iridium: New insights on domain formation. Diamond and Related Materials, 2013, 36, 16-25.	1.8	26
99	Boron Doped Diamond Electrodes for Direct Measurement in Biological Fluids: An In Situ Regeneration Approach. Journal of the Electrochemical Society, 2013, 160, H67-H73.	1.3	26
100	Electrostatic grafting of diamond nanoparticles towards 3D diamond nanostructures. Diamond and Related Materials, 2012, 23, 83-87.	1.8	25
101	Low-temperature magnetoresistance study of electrical transport in N- and B-doped ultrananocrystalline and nanocrystalline diamond films. Diamond and Related Materials, 2006, 15, 607-613.	1.8	24
102	Thin film diamond alpha detectors for dosimetry applications. Diamond and Related Materials, 1999, 8, 952-955.	1.8	23
103	Nitrogen-doped diamond: Thermoluminescence and dosimetric applications. Diamond and Related Materials, 2006, 15, 833-837.	1.8	23
104	Deep hole traps in boron-doped diamond. Physical Review B, 2010, 81, .	1.1	23
105	High collection efficiency CVD diamond alpha detectors. IEEE Transactions on Nuclear Science, 1998, 45, 370-373.	1.2	22
106	Capacitance-voltage studies of Al-Schottky contacts on hydrogen-terminated diamond. Applied Physics Letters, 2002, 81, 637-639.	1.5	22
107	Single crystal CVD diamond detector for high resolution dose measurement for IMRT and novel radiation therapy needs. Diamond and Related Materials, 2010, 19, 1012-1016.	1.8	22
108	CVD diamond detectors for radiation pulse characterisation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 380, 42-45.	0.7	21

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109	The first bump-bonded pixel detectors on CVD diamond. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 436, 326-335.	0.7	21
110	Geometrical non-uniformities in the sensitivity of polycrystalline diamond radiation detectors. Diamond and Related Materials, 2000, 9, 1850-1855.	1.8	21
111	An insight into neutron detection from polycrystalline CVD diamond films. Diamond and Related Materials, 2004, 13, 791-795.	1.8	21
112	Local Oxidation of Hydrogenated Diamond Surfaces for Device Fabrication. Physica Status Solidi A, 2002, 193, 523-528.	1.7	20
113	Fabrication of Silicon on Diamond (SOD) substrates by either the Bonded and Etched-back SOI (BESOI) or the Smart-Cut [®] technology. Solid-State Electronics, 2010, 54, 158-163.	0.8	20
114	Recent progresses of the BOLD investigation towards UV detectors for the ESA Solar Orbiter. Diamond and Related Materials, 2002, 11, 427-432.	1.8	19
115	Scribing into hydrogenated diamond surfaces using atomic force microscopy. Applied Physics Letters, 2003, 82, 3336-3338.	1.5	19
116	In situ study of the initial stages of diamond deposition on 3C-SiC (100) surfaces: Towards the mechanisms of diamond nucleation. Diamond and Related Materials, 2007, 16, 690-694.	1.8	19
117	scCVD Diamond Membrane based Microdosimeter for Hadron Therapy. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800383.	0.8	19
118	Diamond ionisation chambers for dosimetry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 380, 446-449.	0.7	18
119	Thermally Stimulated Investigations on Diamond Based Radiation Detectors. Physica Status Solidi A, 1999, 174, 155-164.	1.7	18
120	Investigation of defects in CVD diamond: Influence for radiotherapy applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 552, 105-111.	0.7	18
121	Interfacing neurons on carbon nanotubes covered with diamond. RSC Advances, 2017, 7, 153-160.	1.7	18
122	Micro-strip sensors based on CVD diamond. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 453, 141-148.	0.7	17
123	Influence of temperature on the response of diamond radiation detectors. Journal of Applied Physics, 2001, 90, 1608-1611.	1.1	17
124	Surface Science Contribution to the BEN Control on Si(100) and 3C-SiC(100): Towards Ultrathin Nanocrystalline Diamond Films. Chemical Vapor Deposition, 2008, 14, 187-195.	1.4	17
125	Diamond-coated ATR prism for infrared absorption spectroscopy of surface-modified diamond nanoparticles. Applied Surface Science, 2013, 270, 411-417.	3.1	17
126	Optimization of Actinides Trace Precipitation on Diamond/Si PIN Sensor for Alpha-Spectrometry in Aqueous Solution. IEEE Transactions on Nuclear Science, 2014, 61, 2082-2089.	1.2	17

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127	Monitoring the evolution of boron doped porous diamond electrode on flexible retinal implant by OCT and in vivo impedance spectroscopy. <i>Materials Science and Engineering C</i> , 2016, 69, 77-84.	3.8	17
128	CVD diamond gamma dose rate monitor for harsh environment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 458, 220-226.	0.7	16
129	Surface characterisation of silicon substrates seeded with diamond nanoparticles under UHV annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2108-2113.	0.8	16
130	Electronic properties of homoepitaxial (111) highly boron-doped diamond films. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	16
131	High Sensitivity of Diamond Resonant Microcantilevers for Direct Detection in Liquids As Probed by Molecular Electrostatic Surface Interactions. <i>Langmuir</i> , 2011, 27, 12226-12234.	1.6	16
132	Hydrogen-induced passivation of boron acceptors in monocrystalline and polycrystalline diamond. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11511.	1.3	16
133	Simultaneous detection of indole and 3-methylindole using boron-doped diamond electrodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2662-2671.	0.8	16
134	Tracking with CVD diamond radiation sensors at high luminosity colliders. <i>IEEE Transactions on Nuclear Science</i> , 1999, 46, 193-200.	1.2	15
135	Sensitivity of Raman spectra excited at 325 nm to surface treatments of undoped polycrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 2397-2402.	0.8	15
136	Extreme insulating ultrathin diamond films for SOD applications: From coalescence modelling to synthesis. <i>Diamond and Related Materials</i> , 2010, 19, 413-417.	1.8	15
137	Major Urinary Proteins on Nanodiamond-Based Resonators Toward Artificial Olfaction. <i>IEEE Sensors Journal</i> , 2016, 16, 6543-6550.	2.4	15
138	Surface-sensitive diamond photonic crystals for high-performance gas detection. <i>Optics Letters</i> , 2016, 41, 4360.	1.7	15
139	Semitransparent CVD diamond detectors for in situ synchrotron radiation beam monitoring. <i>Diamond and Related Materials</i> , 1999, 8, 920-926.	1.8	14
140	Superconductivity and low temperature electrical transport in B-doped CVD nanocrystalline diamond. <i>Science and Technology of Advanced Materials</i> , 2006, 7, S41-S44.	2.8	14
141	Stability of B-H and B-D complexes in diamond under electron beam excitation. <i>Applied Physics Letters</i> , 2008, 93, 062108.	1.5	14
142	Real time investigation of diamond nucleation by laser scattering. <i>Diamond and Related Materials</i> , 2009, 18, 707-712.	1.8	14
143	Realisation and characterisation of mass-based diamond micro-transducers working in dynamic mode. <i>Sensors and Actuators B: Chemical</i> , 2011, 154, 142-149.	4.0	14
144	A passive pressure sensor for continuously measuring the intraocular pressure in glaucomatous patients. <i>Irbm</i> , 2012, 33, 117-122.	3.7	14

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145	Diamond dosimeter for small beam stereotactic radiotherapy. <i>Diamond and Related Materials</i> , 2013, 33, 63-70.	1.8	14
146	Sharp interfaces for diamond delta-doping and SIMS profile modelling. <i>Materials Letters</i> , 2014, 115, 283-286.	1.3	14
147	Why diamond dimensions and electrode geometry are crucial for small photon beam dosimetry. <i>Journal of Applied Physics</i> , 2015, 118, 234507.	1.1	14
148	Diamond micro-cantilevers as transducers for olfactory receptors - based biosensors: Application to the receptors M71 and OR7D4. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1199-1206.	4.0	14
149	CVD diamond photoconductors for picosecond radiation pulse characterisation. <i>Diamond and Related Materials</i> , 1996, 5, 732-736.	1.8	13
150	A new technique for the fabrication of thin silicon radiation detectors. <i>IEEE Transactions on Nuclear Science</i> , 1999, 46, 218-220.	1.2	13
151	Nuclear radiation detectors using thick amorphous-silicon MIS devices. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 456, 284-289.	0.7	13
152	Strong impact of x-ray radiation associated with electron beam metallization of diamond devices. <i>Journal of Applied Physics</i> , 2001, 90, 2533-2537.	1.1	13
153	Performance of irradiated CVD diamond micro-strip sensors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 476, 706-712.	0.7	13
154	Study of the CVD process sequences for an improved control of the Bias Enhanced Nucleation step on silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 2854-2859.	0.8	13
155	Amplitude modulated step scan Fourier transform photocurrent spectroscopy of partly compensated B-doped CVD diamond thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 2950-2956.	0.8	13
156	Investigations of high mobility single crystal chemical vapor deposition diamond for radiotherapy photon beam monitoring. <i>Journal of Applied Physics</i> , 2008, 103, 054512.	1.1	13
157	Electrochemical behaviour of (111) B-Doped Polycrystalline Diamond: Morphology/surface conductivity/activity assessed by EIS and CS-AFM. <i>Diamond and Related Materials</i> , 2011, 20, 1-10.	1.8	13
158	Design of an electrochemically assisted radiation sensor for α -spectrometry of actinides traces in water. <i>Applied Radiation and Isotopes</i> , 2013, 80, 32-41.	0.7	13
159	Boron Doped Diamond/Metal Nanoparticle Catalysts Hybrid Electrode Array for the Detection of Pesticides in Tap Water. <i>Procedia Engineering</i> , 2016, 168, 428-431.	1.2	13
160	Diamond devices as characterisation tools for novel photon sources. <i>Applied Surface Science</i> , 2000, 154-155, 179-185.	3.1	12
161	CVD diamond sensors for charged particle detection. <i>Diamond and Related Materials</i> , 2001, 10, 1778-1782.	1.8	12
162	Imaging of the sensitivity in detector grade polycrystalline diamonds using micro-focused X-ray beams. <i>Diamond and Related Materials</i> , 2002, 11, 418-422.	1.8	12

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163	Characterisation of CVD diamond detectors used for fast neutron flux monitoring. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 476, 495-499.	0.7	12
164	Ultra-sharp boron interfaces for delta doped diamond structures. Physica Status Solidi - Rapid Research Letters, 2012, 6, 59-61.	1.2	12
165	Photo-Deposition of oxynitride and nitride films using excimer lamps. Microelectronic Engineering, 1994, 25, 345-350.	1.1	11
166	Rapid photo-deposition of silicon dioxide films using 172 nm VUV light. Electronics Letters, 1994, 30, 606-608.	0.5	11
167	Influence of the crystalline structure on the electrical properties of CVD diamond films. Diamond and Related Materials, 1996, 5, 741-746.	1.8	11
168	Influence of CVD diamond film textures on the electrical response of radiation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 380, 107-111.	0.7	11
169	CVD diamond wafers as large-area thermoluminescence detectors for measuring the spatial distribution of dose. Physica Status Solidi A, 2003, 199, 119-124.	1.7	11
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