

Giuseppe Prestopino

List of Publications by Year in descending order

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85
papers

1,549
citations

304743

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h-index

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86
all docs

86
docs citations

86
times ranked

1535
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, realization, and characterization of a novel diamond detector prototype for FLASH radiotherapy dosimetry. <i>Medical Physics</i> , 2022, 49, 1902-1910.	3.0	29
2	Proton stopping measurements at low velocity in warm dense carbon. <i>Nature Communications</i> , 2022, 13, .	12.8	13
3	OC-0284 Development of a novel diamond based Schottky diode detector for FLASH radiotherapy dosimetry. <i>Radiotherapy and Oncology</i> , 2022, 170, S244-S245.	0.6	0
4	Application of a novel diamond detector for commissioning of FLASH radiotherapy electron beams. <i>Medical Physics</i> , 2022, 49, 5513-5522.	3.0	15
5	Fabrication and characterization of a Layered Double Hydroxide based catalase biosensor and a catalytic sensor for hydrogen peroxide determination. <i>Microchemical Journal</i> , 2021, 170, 106700.	4.5	11
6	Layered Double Hydroxides as a Drug Delivery Vehicle for S-Allyl-Mercapto-Cysteine (SAMC). <i>Processes</i> , 2021, 9, 1819.	2.8	4
7	A New Clark-Type Layered Double Hydroxides-Enzyme Biosensor for H ₂ O ₂ Determination in Highly Diluted Real Matrices: Milk and Cosmetics. <i>Processes</i> , 2021, 9, 1878.	2.8	7
8	Layered Double Hydroxides in Bioinspired Nanotechnology. <i>Crystals</i> , 2020, 10, 602.	2.2	15
9	Layered Double Hydroxides. <i>Crystals</i> , 2020, 10, 1050.	2.2	4
10	Systematic study of the response of single crystal diamond neutron detectors at high temperature. <i>Journal of Instrumentation</i> , 2020, 15, P03031-P03031.	1.2	7
11	Printing ZnO Inks: From Principles to Devices. <i>Crystals</i> , 2020, 10, 449.	2.2	14
12	Artificial Intelligence Algorithm Enabled Industrial-Scale Graphene Characterization. <i>Crystals</i> , 2020, 10, 308.	2.2	12
13	On the Interaction between 1D Materials and Living Cells. <i>Journal of Functional Biomaterials</i> , 2020, 11, 40.	4.4	6
14	Emerging switchable ultraviolet photoluminescence in dehydrated Zn/Al layered double hydroxide nanoplatelets. <i>Scientific Reports</i> , 2019, 9, 11498.	3.3	30
15	Transport and photo-conduction in carbon nanotube fibers. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	4
16	Layered Double Hydroxides: A Toolbox for Chemistry and Biology. <i>Crystals</i> , 2019, 9, 361.	2.2	61
17	$\hat{\mu}$ E-E single crystal diamond based telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 947, 162744.	1.6	2
18	Electrical conductivity of double textured black diamond films from RT to 800â€°K. <i>Diamond and Related Materials</i> , 2019, 93, 1-7.	3.9	6

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19	Influence of surface crystal-orientation on transfer doping of V2O5/H-terminated diamond. Applied Physics Letters, 2018, 112, 181602.	3.3	23
20	EP-1730: Small field dosimetry by the PTW microDiamond: multicenter experimental study and MC simulations. Radiotherapy and Oncology, 2018, 127, S925.	0.6	0
21	Length measurement and spatial orientation reconstruction of single nanowires. Nanotechnology, 2018, 29, 375704.	2.6	1
22	Transient lateral photovoltaic effect in synthetic single crystal diamond. Applied Physics Letters, 2017, 111, .	3.3	14
23	Photo-physical properties of He-related color centers in diamond. Applied Physics Letters, 2017, 111, .	3.3	13
24	Is the PTW 60019 microDiamond a suitable candidate for small field reference dosimetry?. Physics in Medicine and Biology, 2017, 62, 7036-7055.	3.0	46
25	High temperature operation of single crystal diamond detectors. , 2016, , .		3
26	Development and high temperature testing by 14 MeV neutron irradiation of single crystal diamond detectors. Journal of Instrumentation, 2016, 11, C06008-C06008.	1.2	19
27	High-temperature long-lasting stability assessment of a single-crystal diamond detector under high-flux neutron irradiation. Europhysics Letters, 2016, 116, 42001.	2.0	17
28	Experimental determination of the PTW 60019 microDiamond dosimeter active area and volume. Medical Physics, 2016, 43, 5205-5212.	3.0	49
29	Response to "Comment on "Experimental determination of the PTW 60019 microDiamond dosimeter active area and volume" [Med. Phys. 43, 6667 (2016)]. Medical Physics, 2016, 43, 6668-6668.	3.0	1
30	A novel synthetic single crystal diamond device for <i>in vivo</i> dosimetry. Medical Physics, 2015, 42, 4636-4644.	3.0	9
31	Synthetic single crystal diamond diodes for radiotherapy dosimetry. , 2015, , .		0
32	Analysis of the Response of CVD Diamond Detectors for UV and sX-Ray Plasma Diagnostics Installed at JET. Physics Procedia, 2015, 62, 79-83.	1.2	7
33	Dosimetric characterization of a microDiamond detector in clinical scanned carbon ion beams. Medical Physics, 2015, 42, 2085-2093.	3.0	29
34	Dosimetric characterization of a synthetic single crystal diamond detector in a clinical 62 MeV ocular therapy proton beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 310-317.	1.6	14
35	Evaluation of a novel synthetic single crystal diamond device for in-vivo dosimetry. Physica Medica, 2014, 30, e67-e68.	0.7	0
36	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70

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37	Analysis of laser-generated plasma ionizing radiation by synthetic single crystal diamond detectors. Applied Surface Science, 2013, 272, 104-108.	6.1	34
38	Characterization of a synthetic single crystal diamond Schottky diode for radiotherapy electron beam dosimetry. Medical Physics, 2013, 40, 021712.	3.0	50
39	Radiotherapy electron beams collimated by small tubular applicators: characterization by silicon and diamond diodes. Physics in Medicine and Biology, 2013, 58, 8121-8133.	3.0	14
40	A synthetic diamond diode in volumetric modulated arc therapy dosimetry. Medical Physics, 2013, 40, 092103.	3.0	20
41	Evaluation of the dosimetric properties of a synthetic single crystal diamond detector in high energy clinical proton beams. Medical Physics, 2013, 40, 121702.	3.0	39
42	Raman scattering in boron-doped single-crystal diamond used to fabricate Schottky diode detectors. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2476-2481.	2.3	17
43	X-ray beam monitor made by thin-film CVD single-crystal diamond. Journal of Synchrotron Radiation, 2012, 19, 1015-1020.	2.4	8
44	Spectrometric Performances of Monocrystalline Artificial Diamond Detectors Operated at High Temperature. IEEE Transactions on Nuclear Science, 2012, 59, 2416-2423.	2.0	20
45	A Novel Microdosimeter Based Upon Artificial Single Crystal Diamond. IEEE Transactions on Nuclear Science, 2012, 59, 2409-2415.	2.0	20
46	Dosimetric characterization of a synthetic single crystal diamond detector in clinical radiation therapy small photon beams. Medical Physics, 2012, 39, 4493-4501.	3.0	91
47	Simulation and test of a new MicroDosimeter based upon Single Crystal Diamond. , 2011, , .		0
48	Multistrip synthetic single-crystal-diamond photodiode based on a p-type/intrinsic/Schottky metal transverse configuration. Europhysics Letters, 2011, 94, 28004.	2.0	4
49	Thermal and fast neutron dosimetry using artificial single crystal diamond detectors. Radiation Measurements, 2011, 46, 1686-1689.	1.4	12
50	Lateral IBIC characterization of single crystal synthetic diamond detectors. Physica Status Solidi - Rapid Research Letters, 2011, 5, 80-82.	2.4	10
51	Fission diamond detector tests at the ISIS spallation neutron source. Nuclear Physics, Section B, Proceedings Supplements, 2011, 215, 313-315.	0.4	22
52	Influence of the metallic contact in extreme-ultraviolet and soft x-ray diamond based Schottky photodiodes. Journal of Applied Physics, 2011, 110, .	2.5	21
53	Secondary electron emission in extreme-UV detectors: Application to diamond based devices. Journal of Applied Physics, 2011, 110, 014501.	2.5	6
54	Spectrometric performances of monocrystalline artificial diamond detectors operated at high temperature. , 2011, , .		1

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55	Development of On-Line Tritium Monitor Based Upon Artificial Diamond for Fusion Applications. IEEE Transactions on Nuclear Science, 2011, 58, 1141-1144.	2.0	9
56	Improved performance in synthetic diamond neutron detectors: Application to boron neutron capture therapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 612, 580-582.	1.6	16
57	Single crystal artificial diamond detectors for VUV and soft X-rays measurements on JET thermonuclear fusion plasma. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 726-730.	1.6	25
58	Chemical vapor deposition diamond based multilayered radiation detector: Physical analysis of detection properties. Journal of Applied Physics, 2010, 107, .	2.5	76
59	Extreme UV single crystal diamond Schottky photodiode in planar and transverse configuration. Diamond and Related Materials, 2010, 19, 78-82.	3.9	18
60	Neutron Spectroscopy by Means of Artificial Diamond Detectors Using a Remote Read Out Scheme. IEEE Transactions on Nuclear Science, 2010, , .	2.0	1
61	Synthetic single crystal diamond dosimeters for conformal radiation therapy application. Diamond and Related Materials, 2010, 19, 217-220.	3.9	13
62	Characterization of damage induced by heavy neutron irradiation on multilayered L6iF-single crystal chemical vapor deposition diamond detectors. Journal of Applied Physics, 2009, 106, .	2.5	16
63	Neutron Detectors Based Upon Artificial Single Crystal Diamond. IEEE Transactions on Nuclear Science, 2009, 56, 2275-2279.	2.0	25
64	Diamond detectors for time-of-flight measurements in laser-generated plasmas. Radiation Effects and Defects in Solids, 2009, 164, 369-375.	1.2	4
65	Exciton condensation in homoepitaxial chemical vapor deposition diamond. Journal of Applied Physics, 2009, 106, 053528.	2.5	10
66	Single crystal CVD diamonds as neutron detectors at JET. Fusion Engineering and Design, 2009, 84, 1156-1159.	1.9	33
67	Synthetic single crystal diamond dosimeters for Intensity Modulated Radiation Therapy applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 191-194.	1.6	31
68	Thermal neutron dosimeter by synthetic single crystal diamond devices. Applied Radiation and Isotopes, 2009, 67, S183-S185.	1.5	9
69	Thin-film CVD single-crystal diamonds for high-energy ion beam detection. Radiation Effects and Defects in Solids, 2009, 164, 363-368.	1.2	2
70	X-Ray Detection by Using CVD Single Crystal Diamond Detector. IEEE Transactions on Nuclear Science, 2009, 56, 849-852.	2.0	13
71	Neutron spectroscopy by means of artificial diamond detectors using a remote read out scheme. , 2009, , .		2
72	Development of on-line tritium monitor based upon artificial diamond for fusion applications. , 2009, , .		3

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73	Extreme UV photodetectors based on CVD single crystal diamond in a p-type/intrinsic/metal configuration. <i>Diamond and Related Materials</i> , 2009, 18, 101-105.	3.9	41
74	Performance analysis of poly-, nano- and single-crystalline diamond-based photocathodes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 595, 131-135.	1.6	15
75	Surface acoustic wave devices on AlN/single-crystal diamond for high frequency and high performances operation. , 2008, , .		3
76	Thermal and fast neutron detection in chemical vapor deposition single-crystal diamond detectors. <i>Journal of Applied Physics</i> , 2008, 103, 054501.	2.5	63
77	Radiation tolerance of a high quality synthetic single crystal chemical vapor deposition diamond detector irradiated by 14.8 MeV neutrons. <i>Journal of Applied Physics</i> , 2008, 104, 054513.	2.5	35
78	Synthetic single crystal diamond as a fission reactor neutron flux monitor. <i>Applied Physics Letters</i> , 2007, 90, 183509.	3.3	31
79	Fission reactor flux monitors based on single-crystal CVD diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 2991-2996.	1.8	4
80	Analysis of trapping-detrapping defects in high quality single crystal diamond films grown by Chemical Vapor Deposition. <i>Diamond and Related Materials</i> , 2006, 15, 1878-1881.	3.9	3
81	High performance Li ⁶ F-diamond thermal neutron detectors. <i>Applied Physics Letters</i> , 2006, 89, 143509.	3.3	61
82	Metal-diamond-metal planar structures for off-angle UV beam positioning with high lateral resolution. <i>Sensors and Actuators A: Physical</i> , 2005, 123-124, 199-203.	4.1	4
83	Extreme UV single crystal diamond photodetectors by chemical vapor deposition. <i>Diamond and Related Materials</i> , 2005, 14, 1980-1983.	3.9	11
84	Trapping-detrapping defects in single crystal diamond films grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2005, 87, 222101.	3.3	24
85	Diamond Based Schottky Photodiode for Radiation Therapy & In Vivo Dosimetry. <i>Materials Science Forum</i> , 0, 879, 95-100.	0.3	2