

Stefano Salvatori

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5612682/publications.pdf>

Version: 2024-02-01

97
papers

1,164
citations

430442

18
h-index

525886

27
g-index

99
all docs

99
docs citations

99
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Resolved Dosimetry of Pulsed Photon Beams for Radiotherapy Based on Diamond Detector. IEEE Sensors Journal, 2022, 22, 12348-12356.	2.4	17
2	Charge Transport Mechanisms of Black Diamond at Cryogenic Temperatures. Nanomaterials, 2022, 12, 2253.	1.9	2
3	Accurate Signal Conditioning for Pulsed-Current Synchronous Measurements. Sensors, 2022, 22, 5360.	2.1	10
4	Fabry-Perot Pressure Sensors Based on Polycrystalline Diamond Membranes. Materials, 2021, 14, 1780.	1.3	8
5	Single-Pulse Measurement Electronics for Accurate Dosimetry in X-ray Radiation Therapy. , 2021, , .		4
6	A Diamond-Based Dose-per-Pulse X-ray Detector for Radiation Therapy. Materials, 2021, 14, 5203.	1.3	14
7	Compact Current Reference Circuits with Low Temperature Drift and High Compliance Voltage. Sensors, 2020, 20, 4180.	2.1	11
8	Thin Diamond Film on Silicon Substrates for Pressure Sensor Fabrication. Materials, 2020, 13, 3697.	1.3	11
9	High-Pressure Sensors Based on Laser-Manufactured Sintered Silicon Carbide. Applied Sciences (Switzerland), 2020, 10, 7095.	1.3	10
10	A Compact Gated Integrator for Conditioning Pulsed Analog Signals. Lecture Notes in Electrical Engineering, 2020, , 33-39.	0.3	4
11	Phase transition, structural defects and stress development in superficial and buried regions of femtosecond laser modified diamond. Optical Materials, 2019, 96, 109214.	1.7	9
12	Diamond Detector With Laser-Formed Buried Graphitic Electrodes: Micron-Scale Mapping of Stress and Charge Collection Efficiency. IEEE Sensors Journal, 2019, 19, 11908-11917.	2.4	18
13	High-precision voltage-to-current converters based on single-chip gain-selectable amplifiers. Analog Integrated Circuits and Signal Processing, 2019, 99, 491-495.	0.9	4
14	Electrical conductivity of double textured black diamond films from RT to 800â€°K. Diamond and Related Materials, 2019, 93, 1-7.	1.8	6
15	A High-Precision Gated Integrator for Repetitive Pulsed Signals Acquisition. Electronics (Switzerland), 2019, 8, 1231.	1.8	18
16	Transport properties of photogenerated charge carriers in black diamond films. Ceramics International, 2019, 45, 9544-9547.	2.3	7
17	Investigation with $\hat{1}^2$ -particles and protons of buried graphite pillars in single-crystal CVD diamond. Diamond and Related Materials, 2018, 84, 1-10.	1.8	19
18	Very long laser-induced graphitic pillars buried in single-crystal CVD-diamond for 3D detectors realization. Diamond and Related Materials, 2018, 90, 84-92.	1.8	18

#	ARTICLE	IF	CITATIONS
19	Nano-carbon pixels array for ionizing particles monitoring. <i>Diamond and Related Materials</i> , 2017, 73, 132-136.	1.8	16
20	Diamond detectors with laser induced surface graphite electrodes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 837, 136-142.	0.7	24
21	Diamond device architectures for UV laser monitoring. <i>Laser Physics</i> , 2016, 26, 084005.	0.6	28
22	BURIED GRAPHITE PILLARS IN SINGLE CRYSTAL CVD DIAMOND: SENSITIVITY TO ELECTRONS. <i>RAD Association Journal</i> , 2016, 1, .	0.0	0
23	Three-dimensional graphite electrodes in CVD single crystal diamond detectors: Charge collection dependence on impinging I^2 -particles geometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 799, 10-16.	0.7	22
24	Optimization of X-ray beam profilers based on CVD diamond detectors. <i>Journal of Instrumentation</i> , 2012, 7, C11005-C11005.	0.5	15
25	Polycrystalline diamond UV-triggered MESFET receivers. <i>Nanotechnology</i> , 2012, 23, 075202.	1.3	9
26	Diamond Detectors for UV and X-Ray Source Imaging. <i>IEEE Electron Device Letters</i> , 2012, 33, 224-226.	2.2	69
27	Pixel diamond detectors for excimer laser beam diagnostics. , 2011, , .		1
28	Radiation hard imaging detectors based on diamond electronics. , 2011, , .		1
29	Excimer Laser Beam Analyzer Based on CVD Diamond. , 2010, , .		0
30	On the SCTC-OCTC Method for the Analysis and Design of Circuits. <i>IEEE Transactions on Education</i> , 2009, 52, 318-327.	2.0	5
31	Voltage Division Position Sensitive Detectors Based on Photoconductive Materialsâ€™ Part I: Principle of Operation. <i>IEEE Sensors Journal</i> , 2008, 8, 188-193.	2.4	10
32	Voltage Division Position Sensitive Detectors Based on Photoconductive Materials Part II: Device Performances and Experimental Results. <i>IEEE Sensors Journal</i> , 2008, 8, 218-224.	2.4	4
33	X-ray spectroscopy based on polycrystalline diamond. , 2008, , .		0
34	CVD-diamond detectors for real-time beam profile measurements. , 2008, , .		6
35	Diamond detectors for x-ray spectroscopy. , 2008, , .		2
36	FAST SCINTILLATION READOUT BY MULTI-PIXEL PHOTON COUNTING. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
37	DIAMOND DETECTORS FOR X-RAY BEAM MONITORING. , 2008, , .		0
38	ENERGY-RESOLVING DIAMOND DETECTORS FOR X-RAY SPECTROSCOPY. , 2008, , .		0
39	X-ray diamond detectors with energy resolution. Applied Physics Letters, 2007, 91, .	1.5	29
40	Defects density and carrier lifetime in nitrogen-doped ultrananocrystalline and polycrystalline diamond films. , 2007, , .		1
41	Electronic performance of 2D-UV detectors. Diamond and Related Materials, 2007, 16, 1053-1057.	1.8	13
42	Diamond deep-UV position sensitive detectors. , 2006, 6189, 254.		1
43	Compact front-end electronics for low-level current sensor measurements. Electronics Letters, 2006, 42, 682.	0.5	9
44	Metal-diamond-metal planar structures for off-angle UV beam positioning with high lateral resolution. Sensors and Actuators A: Physical, 2005, 123-124, 199-203.	2.0	4
45	Diamond photoconductive structures for positioning of X-ray beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 551, 83-87.	0.7	4
46	A NEW APPROACH TO UV IMAGING BY CVD-DIAMOND DEVICES. , 2005, , .		0
47	Thin polycrystalline diamond for low-energy x-ray detection. Journal of Applied Physics, 2004, 96, 6415-6420.	1.1	9
48	Transport properties of CVD diamond elucidated by DC and AC conductivity measurements. Diamond and Related Materials, 2004, 13, 277-281.	1.8	5
49	Temporal response of CVD diamond detectors to modulated low energy X-ray beams. Physica Status Solidi A, 2004, 201, 249-252.	1.7	14
50	Deep UV detection by CVD diamond position sensitive devices. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 261-264.	0.8	6
51	Deep UV pulsed laser monitoring by CVD diamond sensors. Sensors and Actuators A: Physical, 2004, 113, 277-281.	2.0	21
52	AC conductance and impedance spectroscopy of polycrystalline diamond films. Diamond and Related Materials, 2004, 13, 891-895.	1.8	8
53	Polycrystalline diamond position sensitive detector for excimer laser UV radiation. Diamond and Related Materials, 2004, 13, 948-953.	1.8	18
54	Efficient deep UV detection in polycrystalline diamond by double collection mechanism. Diamond and Related Materials, 2004, 13, 814-818.	1.8	6

#	ARTICLE	IF	CITATIONS
55	OPTICAL POSITION SENSITIVE DETECTORS BASED ON CVD-DIAMOND SAMPLES. , 2004, , .		1
56	Electronic properties of hydrogen and oxygen terminated surfaces of polycrystalline diamond films. <i>Physica Status Solidi A</i> , 2003, 199, 71-76.	1.7	17
57	Radiation-induced modification of trap occupancy in polycrystalline diamond detectors. <i>Diamond and Related Materials</i> , 2003, 12, 696-700.	1.8	6
58	Charge injection and transport in tetra-phenyl-porphyrin. <i>Synthetic Metals</i> , 2003, 138, 255-260.	2.1	4
59	Tetra-phenyl porphyrin based thin film transistors. <i>Synthetic Metals</i> , 2003, 138, 261-266.	2.1	55
60	Grain boundary transport in x-ray irradiated polycrystalline diamond. <i>Journal of Applied Physics</i> , 2003, 93, 6078-6083.	1.1	14
61	Nonuniform current distribution in metal/diamond/metal vertical structures. <i>Applied Physics Letters</i> , 2003, 82, 4459-4461.	1.5	11
62	Optimized spectral collection efficiency obtained in diamond-based ultraviolet detectors using a three-electrode structure. <i>Applied Physics Letters</i> , 2003, 82, 3785-3787.	1.5	37
63	Microcrystalline CVD-diamond samples as storage media for ultraviolet images. <i>Electronics Letters</i> , 2003, 39, 107.	0.5	0
64	Optimised contact-structures for metal-diamond-metal UV-detectors. <i>Diamond and Related Materials</i> , 2002, 11, 458-462.	1.8	22
65	Effect of nanostructure and back contact material on the field emission properties of carbon films. <i>Diamond and Related Materials</i> , 2002, 11, 819-823.	1.8	18
66	Functional properties of silicon nanocrystals in oxygen-rich amorphous matrices formed by laser irradiation of substoichiometric silicon oxides. <i>Materials Science and Engineering C</i> , 2002, 19, 175-179.	3.8	4
67	Amorphous carbon deposited by pulsed laser ablation as material for cold cathode flat emitters. <i>Applied Surface Science</i> , 2002, 186, 423-428.	3.1	4
68	Secondary electron emission from diamond: Physical modeling and application to scanning electron microscopy. <i>Journal of Applied Physics</i> , 2001, 89, 689-696.	1.1	40
69	Field- and photo-emission properties of CVD-diamond with different microcrystalline structure. <i>Diamond and Related Materials</i> , 2001, 10, 852-857.	1.8	13
70	Optical and electrical properties of silicon nanocrystals formed by CW laser irradiation of amorphous silicon oxides. <i>Thin Solid Films</i> , 2001, 383, 267-270.	0.8	12
71	Position-sensing CVD-diamond-based UV detectors. <i>Electronics Letters</i> , 2001, 37, 519.	0.5	4
72	Wide-band gap semiconductors for noncontact thermometry. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 219.	1.6	2

#	ARTICLE	IF	CITATIONS
73	UV SENSORS BASED ON POLYCRYSTALLINE DIAMOND. , 2000, , .		0
74	Photocurrent and Photoelectron Yield Spectroscopies of Defect States in CVD Diamond Films. <i>Physica Status Solidi A</i> , 2000, 181, 29-35.	1.7	5
75	Laser-induced nanocrystalline silicon formation in a-SiO matrices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 69-70, 299-302.	1.7	16
76	Dynamic performance of UV photodetectors based on polycrystalline diamond. <i>IEEE Transactions on Electron Devices</i> , 2000, 47, 1334-1340.	1.6	17
77	High-temperature performances of diamond-based UV-photodetectors. <i>Diamond and Related Materials</i> , 2000, 9, 982-986.	1.8	20
78	Diamond-based UV photodetectors for high-temperature applications. <i>Electronics Letters</i> , 1999, 35, 1768.	0.5	8
79	Minority-carrier transport parameters in CVD diamond. <i>Carbon</i> , 1999, 37, 811-816.	5.4	9
80	Surface Distribution of Stress State and Diamond Phases in [100] Oriented Diamond Films. <i>Physica Status Solidi A</i> , 1999, 172, 97-103.	1.7	4
81	Transient photoresponse of CVD diamond-based detectors in the time domain 10^{-9} – 10^3 s. <i>Diamond and Related Materials</i> , 1999, 8, 871-876.	1.8	17
82	a-SiO _x :H thin film light emitting devices for Si-based optoelectronics. <i>Journal of Luminescence</i> , 1998, 80, 405-409.	1.5	5
83	CVD diamond films as photon detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 409, 423-425.	0.7	10
84	Performance of diamond-based photoconductive devices in the UV range. <i>Diamond and Related Materials</i> , 1998, 7, 811-816.	1.8	20
85	Diamond photoluminescence spectra: Dependence on excitation energy and microstructure. <i>Diamond and Related Materials</i> , 1998, 7, 255-260.	1.8	22
86	Defect structure, distribution, and dynamics in diamond-on-silicon optoelectronic devices. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998, 16, 1725.	1.6	18
87	<title>Impurity and stress distribution in diamond films investigated by laser-excited Raman and luminescence spectroscopy</title>. , 1998, , .		1
88	Photoelectrical characteristics of diamond UV detectors: Dependence on device design and film quality. <i>Diamond and Related Materials</i> , 1997, 6, 361-366.	1.8	68
89	Emission and excitation spectra of silicon-related luminescent centers in CVD-grown diamond films. <i>Diamond and Related Materials</i> , 1997, 6, 1564-1567.	1.8	7
90	Gap density of states in CVD diamond films from photoconductivity and photoluminescence data. <i>Diamond and Related Materials</i> , 1997, 6, 712-716.	1.8	12

#	ARTICLE	IF	CITATIONS
91	Solar-blind UV-photodetector based on polycrystalline diamond films: basic design principle and comparison with experimental results. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997, 46, 105-111.	1.7	30
92	Electro-optical properties of diamond thin films as UV photodetectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 387, 255-258.	0.7	15
93	Metal-semiconductor-metal photodiodes based on CVD diamond films. <i>Diamond and Related Materials</i> , 1996, 5, 775-778.	1.8	18
94	Electrical and photoelectrical characterization of diamond-on-silicon structures. <i>Applied Surface Science</i> , 1996, 102, 125-129.	3.1	2
95	On the electrical properties of polycrystalline diamond films on silicon. <i>Diamond and Related Materials</i> , 1995, 4, 628-631.	1.8	22
96	AC module based on stacked a-Si-alloy and c-Si solar cells: design, technology and performance evaluation. , 0, , .		0
97	Design and test of deep-UV position sensitive detectors. , 0, , .		3