Sebania Libertino

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The erbiumâ€impurity interaction and its effects on the 1.54 μm luminescence of Er3+in crystalline silicon. Journal of Applied Physics, 1995, 78, 3874-3882.	1.1	187
2	Evolution from point to extended defects in ion implanted silicon. Journal of Applied Physics, 1997, 82, 120-125.	1.1	138
3	The effects of oxygen and defects on the deepâ€level properties of Er in crystalline Si. Journal of Applied Physics, 1995, 78, 3867-3873.	1.1	87
4	Graphene oxide and titania hybrid Nafion membranes for efficient removal of methyl orange dye from water. Carbon, 2015, 82, 489-499.	5.4	86
5	Transition from small interstitial clusters to extended {311} defects in ion-implanted Si. Applied Physics Letters, 2000, 76, 321-323.	1.5	81
6	XPS and AFM Characterization of the Enzyme Glucose Oxidase Immobilized on SiO ₂ Surfaces. Langmuir, 2008, 24, 1965-1972.	1.6	77
7	Electrical signatures and thermal stability of interstitial clusters in ion implanted Si. Journal of Applied Physics, 1998, 84, 4749-4756.	1.1	75
8	Formation, evolution, and annihilation of interstitial clusters in ion-implanted Si. Physical Review B, 2001, 63, .	1.1	73
9	Immobilization of the Enzyme Glucose Oxidase on Both Bulk and Porous SiO2 Surfaces. Sensors, 2008, 8, 5637-5648.	2.1	69
10	Lifetime control in silicon devices by voids induced by He ion implantation. Journal of Applied Physics, 1996, 79, 9012-9016.	1.1	68
11	Depth profiles of vacancy- and interstitial-type defects in MeV implanted Si. Journal of Applied Physics, 1997, 81, 1639-1644.	1.1	67
12	Integrating printed microfluidics with silicon photomultipliers for miniaturised and highly sensitive ATP bioluminescence detection. Biosensors and Bioelectronics, 2018, 99, 464-470.	5.3	58
13	Cationic and anionic azo-dye removal from water by sulfonated graphene oxide nanosheets in Nafion membranes. New Journal of Chemistry, 2016, 40, 3654-3663.	1.4	49
14	Layer uniformity in glucose oxidase immobilization on SiO2 surfaces. Applied Surface Science, 2007, 253, 9116-9123.	3.1	46
15	Dark Current in Silicon Photomultiplier Pixels: Data and Model. IEEE Transactions on Electron Devices, 2012, 59, 2410-2416.	1.6	46
16	Design, fabrication, and testing of an integrated si-based light modulator. Journal of Lightwave Technology, 2003, 21, 228-235.	2.7	41
17	Evolution of interstitial- and vacancy-type defects upon thermal annealing in ion-implanted Si. Applied Physics Letters, 1997, 71, 389-391.	1.5	38
18	Biosensor integration on Si-based devices: Feasibility studies and examples. Sensors and Actuators B: Chemical, 2013, 179, 240-251.	4.0	38

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19	On the Relationship between Jetted Inks and Printed Biopatterns: Molecular-Thin Functional Microarrays of Glucose Oxidase. Langmuir, 2009, 25, 6312-6318.	1.6	34
20	Defects and electrical behavior in 1MeV Si+-ion-irradiated 4H–SiC Schottky diodes. Journal of Applied Physics, 2006, 99, 013515.	1.1	32
21	Materials issues and device performances for light emitting Er-implanted Si. Nuclear Instruments & Methods in Physics Research B, 1995, 106, 386-392.	0.6	29
22	Si Photomultipliers for Bio-Sensing Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 335-341.	1.9	29
23	Room-temperature diffusivity of self-interstitials and vacancies in ion-implanted Si probed by in situ measurements. Applied Physics Letters, 1998, 73, 3369-3371.	1.5	28
24	Improvement of sensitivity in continuous wave near infrared spectroscopy systems by using silicon photomultipliers. Biomedical Optics Express, 2016, 7, 1183.	1.5	28
25	Functionalization of Bulk SiO2 Surface with Biomolecules for Sensing Applications: Structural and Functional Characterizations. Chemosensors, 2018, 6, 59.	1.8	26
26	lon irradiation of inhomogeneous Schottky barriers on silicon carbide. Journal of Applied Physics, 2005, 97, 123502.	1.1	25
27	Characterization of SiPMs With NIR Long-Pass Interferential and Plastic Filters. IEEE Photonics Journal, 2018, 10, 1-12.	1.0	25
28	Investigation of ZnO-decorated CNTs for UV Light Detection Applications. Nanomaterials, 2019, 9, 1099.	1.9	25
29	Formation, evolution and annihilation of interstitial clusters in ion implanted Si. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 247-251.	0.6	24
30	Experimental characterization of proteins immobilized on Si-based materials. Microelectronic Engineering, 2007, 84, 468-473.	1.1	23
31	Photo-physical characterization of fluorophore Ru(bpy) 3 2+ for optical biosensing applications. Sensing and Bio-Sensing Research, 2015, 6, 67-71.	2.2	23
32	The effect of impurity content on point defect evolution in ion implanted and electron irradiated Si. Applied Physics Letters, 1997, 70, 3002-3004.	1.5	21
33	Environmental Management of Legionella in Domestic Water Systems: Consolidated and Innovative Approaches for Disinfection Methods and Risk Assessment. Microorganisms, 2021, 9, 577.	1.6	21
34	Characterization of a fiber-less, multichannel optical probe for continuous wave functional near-infrared spectroscopy based on silicon photomultipliers detectors: in-vivo assessment of primary sensorimotor response. Neurophotonics, 2017, 4, 1.	1.7	20
35	Design and development of wearable sensing nanomaterials for smart textiles. AIP Conference Proceedings, 2018, , .	0.3	19
36	Miniaturizable Si-based electro-optical modulator working at 1.5 μm. Applied Physics Letters, 2005, 86, 201115.	1.5	18

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37	Silicon nitride surfaces as active substrate for electrical DNA biosensors. Sensors and Actuators B: Chemical, 2017, 252, 492-502.	4.0	18
38	Design and fabrication of integrated Si-based optoelectronic devices. Materials Science in Semiconductor Processing, 2000, 3, 375-381.	1.9	17
39	Radiation hardness of silicon photomultipliers under 60Co Î ³ -ray irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 347-352.	0.7	17
40	SiPM as miniaturised optical biosensor for DNA-microarray applications. Sensing and Bio-Sensing Research, 2015, 6, 95-98.	2.2	17
41	Biosensors in Monitoring Water Quality and Safety: An Example of a Miniaturizable Whole-Cell Based Sensor for Hg2+ Optical Detection in Water. Water (Switzerland), 2019, 11, 1986.	1.2	17
42	Schottky-Ohmic Transition in Nickel Silicide/SiC System: Is it Really a Solved Problem?. Materials Science Forum, 2003, 433-436, 721-724.	0.3	16
43	Feasibility Studies on Si-Based Biosensors. Sensors, 2009, 9, 3469-3490.	2.1	16
44	Structural Characterization and Adsorption Properties of Dunino Raw Halloysite Mineral for Dye Removal from Water. Materials, 2021, 14, 3676.	1.3	16
45	Damage Formation and Evolution inÂlon-Implanted Crystalline Si. Topics in Applied Physics, 2009, , 147-212.	0.4	15
46	Radiation Tolerance of NROM Embedded Products. IEEE Transactions on Nuclear Science, 2010, 57, 2309-2317.	1.2	14
47	Noise Reduction in Silicon Photomultipliers for Use in Functional Near-Infrared Spectroscopy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2017, 1, 212-220.	2.7	13
48	Silicon photomultiplier device architecture with dark current improved to the ultimate physical limit. Applied Physics Letters, 2013, 102, 183502.	1.5	12
49	Octahedral faceted Si nanoparticles as optical traps with enormous yield amplification. Scientific Reports, 2015, 5, 8354.	1.6	12
50	Photocatalytic properties of carbon nanotubes/titania nanoparticles composite layers deposited by electrophoresis. Materials Science in Semiconductor Processing, 2016, 42, 45-49.	1.9	12
51	Feasibility analysis of laser action in erbium-doped silicon waveguides. IEEE Journal of Quantum Electronics, 2000, 36, 1206-1213.	1.0	11
52	Ionizing Radiation Effects on Non Volatile Read Only Memory Cells. IEEE Transactions on Nuclear Science, 2012, 59, 3016-3020.	1.2	11
53	Antimicrobial s-PBC Coatings for Innovative Multifunctional Water Filters. Molecules, 2020, 25, 5196.	1.7	11
54	Characterization and pattering of bacteriorhodopsin films on Si-based materials. Synthetic Metals, 2003, 138, 71-74.	2.1	10

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55	Development of Si-based electrical biosensors: Simulations and first experimental results. Sensing and Bio-Sensing Research, 2015, 6, 72-78.	2.2	10
56	Electro-Optical Characterization of SiPMs With Green Bandpass Dichroic Filters. IEEE Sensors Journal, 2017, 17, 4075-4082.	2.4	10
57	Cluster formation and growth in Si ion implanted c-Si. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 71, 137-142.	1.7	9
58	Effect of Oxygen on the Diffusion of Nitrogen Implanted in Silicon. Electrochemical and Solid-State Letters, 2004, 7, G161.	2.2	9
59	Design and development of a fNIRS system prototype based on SiPM detectors. , 2014, , .		9
60	Electrical Characterization of Biological Molecules Deposition in MOS Capacitors. Sensor Letters, 2008, 6, 531-536.	0.4	9
61	Experimental Evidences of Carrier Distribution and Behavior in Frequency in a BMFET Modulator. IEEE Transactions on Electron Devices, 2005, 52, 2374-2378.	1.6	8
62	SiPM as novel optical biosensor transduction and applications. , 2014, , .		8
63	Imaging System Based on Silicon Photomultipliers and Light Emitting Diodes for Functional Near-Infrared Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 1068.	1.3	8
64	Innovative Antibiofilm Smart Surface against Legionella for Water Systems. Microorganisms, 2022, 10, 870.	1.6	8
65	Optical doping of materials by erbium ion implantation. Nuclear Instruments & Methods in Physics Research B, 1996, 116, 77-84.	0.6	7
66	A multi-scale atomistic study of the interstitials agglomeration in crystalline Si. Nuclear Instruments & Methods in Physics Research B, 2001, 178, 154-159.	0.6	7
67	Schottky Barrier Inhomogeneities in Nickel Silicide Transrotational Contacts. Applied Physics Express, 2011, 4, 115701.	1.1	7
68	Study of a Miniaturizable System for Optical Sensing Application to Human Cells. Applied Sciences (Switzerland), 2019, 9, 975.	1.3	7
69	Electro-Optical Modulators in Silicon. , 2006, , 53-95.		7
70	Crucial aspects for the use of silicon photomultiplier devices in continuous wave functional near-infrared spectroscopy. Biomedical Optics Express, 2018, 9, 4679.	1.5	7
71	Room temperature migration of ion beam injected point defects in crystalline silicon. Nuclear Instruments & Methods in Physics Research B, 1996, 120, 9-13.	0.6	6
72	Sulfide Species Optical Monitoring by a Miniaturized Silicon Photomultiplier. Sensors, 2018, 18, 727.	2.1	6

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73	Interaction and Migration Properties of Ion Beam Induced Point Defects in Crystalline Silicon: Basic Research and Technological Relevance. Defect and Diffusion Forum, 1998, 153-155, 137-158.	0.4	5
74	Defect Evolution in Ion Implanted Si: from Point to Extended Defects. Materials Research Society Symposia Proceedings, 1997, 504, 3.	0.1	5
75	Point defect diffusion and clustering in ion implanted c-Si. Nuclear Instruments & Methods in Physics Research B, 2001, 178, 25-32.	0.6	5
76	Optical and structural characterization of bacterio-rhodopsin films on Si-based materials. Synthetic Metals, 2003, 138, 141-144.	2.1	5
77	Silicon Carbide: Defects and Devices. Solid State Phenomena, 2005, 108-109, 663-670.	0.3	5
78	Electrical characterization of deoxyribonucleic acid hybridization in metal-oxide-semiconductor-like structures. Applied Physics Letters, 2012, 101, 093703.	1.5	5
79	Photo-Fenton Degradation of Methyl Orange with Dunino Halloysite as a Source of Iron. Catalysts, 2022, 12, 257.	1.6	5
80	Defect evolution in ion implanted crystalline Si probed by in situ conductivity measurements. Nuclear Instruments & Methods in Physics Research B, 1995, 96, 219-222.	0.6	4
81	Room temperature defect diffusion in ion implanted c-Si. Nuclear Instruments & Methods in Physics Research B, 2002, 186, 265-270.	0.6	4
82	Correlation between Leakage Current and Ion-Irradiation Induced Defects in 4H-SiC Schottky Diodes. Materials Science Forum, 2006, 527-529, 1167-1170.	0.3	4
83	Radiation effects in nitride read-only memories. Microelectronics Reliability, 2010, 50, 1857-1860.	0.9	4
84	CY5 fluorescence measured with silicon photomultipliers. , 2014, , .		4
85	Silicon photomultipliers applications to biosensors. , 2014, , .		4
86	lon implantation doping of Si for optoelectronic applications. Nuclear Instruments & Methods in Physics Research B, 1996, 120, 74-80.	0.6	3
87	<title>Diamond-based vacuum UV photodetectors for space applications</title> ., 2001, , .		3
88	Effects of implantation defects on the carrier concentration of 6H-SiC. Applied Physics A: Materials Science and Processing, 2006, 82, 543-547.	1.1	3
89	Monte Carlo Analysis of the Evolution from Point to Extended Interstitial Type Defects in Crystalline Silicon. Materials Research Society Symposia Proceedings, 2000, 610, 1151.	0.1	2
90	Atomistic simulations and the requirements of process simulator for novel semiconductor devices. Computational Materials Science, 2002, 24, 213-222.	1.4	2

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91	Formation, Evolution And Thermal Stability Of Interstitial Clusters In Ion Implanted c-Si. AIP Conference Proceedings, 2003, , .	0.3	2
92	Defects in He ⁺ Irradiated 6H-SiC Probed by DLTS and LTPL Measurements. Materials Science Forum, 2004, 457-460, 493-496.	0.3	2
93	Fabrication and characterization of polymeric optical waveguides using standard silicon processing technology. , 0, , .		2
94	Miniaturizable Si-based light intensity Modulator for integrated sensing applications. Journal of Lightwave Technology, 2006, 24, 1403-1408.	2.7	2
95	Dark count in single photon avalanche Si detectors. , 2010, , .		2
96	Preliminary radiation hardness tests of single photon Si detectors. , 2010, , .		2
97	Threshold Voltage Variability of NROM Memories After Exposure to Ionizing Radiation. IEEE Transactions on Electron Devices, 2012, 59, 2597-2602.	1.6	2
98	Impact of long-pass interferential filters on dark current and background light rejection in Silicon Photomultipliers. Journal of Instrumentation, 2018, 13, P02016-P02016.	0.5	2
99	The electrical properties of terbium ions in crystalline Si. Journal of Applied Physics, 1999, 85, 2093-2099.	1.1	1
100	Room Temperature Point Defect Migration in Crystalline Si. Solid State Phenomena, 2002, 82-84, 207-212.	0.3	1
101	Self-Interstitial Kinetics and Transient Phenomena in Si Crystals. Solid State Phenomena, 2001, 82-84, 171-176.	0.3	1
102	Design, fabrication, and testing of an integrated Si-based light modulator: experimental evidence of plasma redistribution. , 2002, , .		1
103	Porous-Si-based bioreactors for glucose monitoring and drugs production. , 2003, , .		1
104	Porous-Si based bioreactors for glucose monitoring. , 2003, , .		1
105	Ion-Beam Induced Modifications of Titanium Schottky Barrier on 4H-SiC. Materials Science Forum, 2005, 483-485, 729-732.	0.3	1
106	Defect Evolution in Ion Irradiated 6H-SiC Epitaxial Layers. Materials Science Forum, 2005, 483-485, 485-488.	0.3	1
107	Radiation Effects on Programmed NROM Cells. ECS Transactions, 2008, 14, 311-317.	0.3	1
108	Compact instrumentation for radiation tolerance test of flash memories in space environment. , 2010,		1

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109	Silicon photomultipliers with embedded optical filters for wearable healthcare applications. , 2017, , .		1
110	A Miniaturized Microbe-Silicon-Chip Based on Bioluminescent Engineered Escherichia coli for the Evaluation of Water Quality and Safety. International Journal of Environmental Research and Public Health, 2021, 18, 7580.	1.2	1
111	Migration and interaction properties of ion beam generated point defects in c-Si. Nuclear Instruments & Methods in Physics Research B, 1999, 147, 23-28.	0.6	ο
112	Design, fabrication, and testing of an integrated Si-based light modulator. , 2003, , .		0
113	An integrated Si-based electro-optical modulator. , 2004, , .		Ο
114	Silicon resonant cavity enhanced photodetectors at 1.55 Î $^1\!\!/4$ m. , 2005, , .		0
115	Thermo-opto-electrical analysis of an optical modulator integrated in a silicon planar structure. , 2005, , .		Ο
116	A miniaturizable integrated Si-based light modulator. , 2005, , .		0
117	Design of a RCE photodetectors based on the internal photoemission effect. , 2006, 6183, 446.		Ο
118	Experimental analysis of a BMFET light intensity modulator: from static distributions to the carrier plasma dynamic and electro-optical device performance. Semiconductor Science and Technology, 2006, 21, 890-897.	1.0	0
119	New method for the detection of enzyme immobilized on Si-based glucose Biosensors. , 2006, , .		Ο
120	Glucose oxidase characterization for the fabrication of hybrid microelectronic devices. , 2007, 6592, 289.		0
121	Potentialities of silicon photomultiplier. , 2014, , .		Ο
122	The Silicon Photomultiplier: Optimum design, performance, applications. , 2014, , .		0
123	Single Atom Detection Through HAADF-STEM and EELS/EDX Characterization of Fluorophore Ru(bpy)32+ for Optical DNA-Chip Applications. Microscopy and Microanalysis, 2015, 21, 1429-1430.	0.2	Ο
124	Flexible CW-fNIRS system based on Silicon Photomultipliers: In-vivo characterization of sensorimotor response. , 2017, , .		0
125	An Innovative Optical Chem-Sensor Based on a Silicon Photomultipliers for the Sulfide Monitoring. Lecture Notes in Electrical Engineering, 2019, , 75-81.	0.3	0
126	Interstitial Cluster Evolution and Transient Phenomena in Si-crystal. , 2001, , 120-123.		0

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