

Sebania Libertino

List of Publications by Year in descending order

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126
papers

2,271
citations

236833

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h-index

243529

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126
all docs

126
docs citations

126
times ranked

2166
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-Fenton Degradation of Methyl Orange with Dunino Halloysite as a Source of Iron. Catalysts, 2022, 12, 257.	1.6	5
2	Innovative Antibiofilm Smart Surface against Legionella for Water Systems. Microorganisms, 2022, 10, 870.	1.6	8
3	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
4	Structural Characterization and Adsorption Properties of Dunino Raw Halloysite Mineral for Dye Removal from Water. Materials, 2021, 14, 3676.	1.3	16
5	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
6	Antimicrobial s-PBC Coatings for Innovative Multifunctional Water Filters. Molecules, 2020, 25, 5196.	1.7	11
7	Imaging System Based on Silicon Photomultipliers and Light Emitting Diodes for Functional Near-Infrared Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 1068.	1.3	8
8	Investigation of ZnO-decorated CNTs for UV Light Detection Applications. Nanomaterials, 2019, 9, 1099.	1.9	25
9	Biosensors in Monitoring Water Quality and Safety: An Example of a Miniaturizable Whole-Cell Based Sensor for Hg ²⁺ Optical Detection in Water. Water (Switzerland), 2019, 11, 1986.	1.2	17
10	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
11	Study of a Miniaturizable System for Optical Sensing Application to Human Cells. Applied Sciences (Switzerland), 2019, 9, 975.	1.3	7
12	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
13	Integrating printed microfluidics with silicon photomultipliers for miniaturised and highly sensitive ATP bioluminescence detection. Biosensors and Bioelectronics, 2018, 99, 464-470.	5.3	58
14	Functionalization of Bulk SiO ₂ Surface with Biomolecules for Sensing Applications: Structural and Functional Characterizations. Chemosensors, 2018, 6, 59.	1.8	26
15	Characterization of SiPMs With NIR Long-Pass Interferential and Plastic Filters. IEEE Photonics Journal, 2018, 10, 1-12.	1.0	25
16	Design and development of wearable sensing nanomaterials for smart textiles. AIP Conference Proceedings, 2018, , .	0.3	19
17	Sulfide Species Optical Monitoring by a Miniaturized Silicon Photomultiplier. Sensors, 2018, 18, 727.	2.1	6
18	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

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19	Electro-Optical Characterization of SiPMs With Green Bandpass Dichroic Filters. IEEE Sensors Journal, 2017, 17, 4075-4082.	2.4	10
20	Silicon nitride surfaces as active substrate for electrical DNA biosensors. Sensors and Actuators B: Chemical, 2017, 252, 492-502.	4.0	18
21	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
22	Silicon photomultipliers with embedded optical filters for wearable healthcare applications. , 2017, , .		1
23	Flexible CW-fNIRS system based on Silicon Photomultipliers: In-vivo characterization of sensorimotor response. , 2017, , .		0
24	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
25	Improvement of sensitivity in continuous wave near infrared spectroscopy systems by using silicon photomultipliers. Biomedical Optics Express, 2016, 7, 1183.	1.5	28
26	Si Photomultipliers for Bio-Sensing Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 335-341.	1.9	29
27	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
28	Photocatalytic properties of carbon nanotubes/titania nanoparticles composite layers deposited by electrophoresis. Materials Science in Semiconductor Processing, 2016, 42, 45-49.	1.9	12
29	Octahedral faceted Si nanoparticles as optical traps with enormous yield amplification. Scientific Reports, 2015, 5, 8354.	1.6	12
30	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
31	Development of Si-based electrical biosensors: Simulations and first experimental results. Sensing and Bio-Sensing Research, 2015, 6, 72-78.	2.2	10
32	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	0
33	SiPM as miniaturised optical biosensor for DNA-microarray applications. Sensing and Bio-Sensing Research, 2015, 6, 95-98.	2.2	17
34	Graphene oxide and titania hybrid Nafion membranes for efficient removal of methyl orange dye from water. Carbon, 2015, 82, 489-499.	5.4	86
35	CY5 fluorescence measured with silicon photomultipliers. , 2014, , .		4
36	Design and development of a fNIRS system prototype based on SiPM detectors. , 2014, , .		9

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37	Silicon photomultipliers applications to biosensors. , 2014, , .		4
38	Potentialities of silicon photomultiplier. , 2014, , .		0
39	Radiation hardness of silicon photomultipliers under ^{60}Co γ -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 novel optical biosensor transduction and applications. , 2014, , .		8
41	The Silicon Photomultiplier: Optimum design, performance, applications. , 2014, , .		0
42	Biosensor integration on Si-based devices: Feasibility studies and examples. Sensors and Actuators B: Chemical, 2013, 179, 240-251.	4.0	38
43	Silicon photomultiplier device architecture with dark current improved to the ultimate physical limit. Applied Physics Letters, 2013, 102, 183502.	1.5	12
44	Ionizing Radiation Effects on Non Volatile Read Only Memory Cells. IEEE Transactions on Nuclear Science, 2012, 59, 3016-3020.	1.2	11
45	Dark Current in Silicon Photomultiplier Pixels: Data and Model. IEEE Transactions on Electron Devices, 2012, 59, 2410-2416.	1.6	46
46	Threshold Voltage Variability of NROM Memories After Exposure to Ionizing Radiation. IEEE Transactions on Electron Devices, 2012, 59, 2597-2602.	1.6	2
47	Electrical characterization of deoxyribonucleic acid hybridization in metal-oxide-semiconductor-like structures. Applied Physics Letters, 2012, 101, 093703.	1.5	5
48	Schottky Barrier Inhomogeneities in Nickel Silicide Transrotational Contacts. Applied Physics Express, 2011, 4, 115701.	1.1	7
49	Radiation effects in nitride read-only memories. Microelectronics Reliability, 2010, 50, 1857-1860.	0.9	4
50	Compact instrumentation for radiation tolerance test of flash memories in space environment. , 2010, , .		1
51	Dark count in single photon avalanche Si detectors. , 2010, , .		2
52	Preliminary radiation hardness tests of single photon Si detectors. , 2010, , .		2
53	Radiation Tolerance of NROM Embedded Products. IEEE Transactions on Nuclear Science, 2010, 57, 2309-2317.	1.2	14
54	Feasibility Studies on Si-Based Biosensors. Sensors, 2009, 9, 3469-3490.	2.1	16

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55	On the Relationship between Jetted Inks and Printed Biopatterns: Molecular-Thin Functional Microarrays of Glucose Oxidase. <i>Langmuir</i> , 2009, 25, 6312-6318.	1.6	34
56	Damage Formation and Evolution in Alon-Implanted Crystalline Si. <i>Topics in Applied Physics</i> , 2009, , 147-212.	0.4	15
57	XPS and AFM Characterization of the Enzyme Glucose Oxidase Immobilized on SiO ₂ Surfaces. <i>Langmuir</i> , 2008, 24, 1965-1972.	1.6	77
58	Radiation Effects on Programmed NROM Cells. <i>ECS Transactions</i> , 2008, 14, 311-317.	0.3	1
59	Immobilization of the Enzyme Glucose Oxidase on Both Bulk and Porous SiO ₂ Surfaces. <i>Sensors</i> , 2008, 8, 5637-5648.	2.1	69
60	Electrical Characterization of Biological Molecules Deposition in MOS Capacitors. <i>Sensor Letters</i> , 2008, 6, 531-536.	0.4	9
61	Glucose oxidase characterization for the fabrication of hybrid microelectronic devices. , 2007, 6592, 289.		0
62	Experimental characterization of proteins immobilized on Si-based materials. <i>Microelectronic Engineering</i> , 2007, 84, 468-473.	1.1	23
63	Layer uniformity in glucose oxidase immobilization on SiO ₂ surfaces. <i>Applied Surface Science</i> , 2007, 253, 9116-9123.	3.1	46
64	Defects and electrical behavior in 1MeV Si ⁺ -ion-irradiated 4H-SiC Schottky diodes. <i>Journal of Applied Physics</i> , 2006, 99, 013515.	1.1	32
65	Miniaturizable Si-based light intensity Modulator for integrated sensing applications. <i>Journal of Lightwave Technology</i> , 2006, 24, 1403-1408.	2.7	2
66	Design of a RCE photodetectors based on the internal photoemission effect. , 2006, 6183, 446.		0
67	Experimental analysis of a BMFET light intensity modulator: from static distributions to the carrier plasma dynamic and electro-optical device performance. <i>Semiconductor Science and Technology</i> , 2006, 21, 890-897.	1.0	0
68	Effects of implantation defects on the carrier concentration of 6H-SiC. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 82, 543-547.	1.1	3
69	Correlation between Leakage Current and Ion-Irradiation Induced Defects in 4H-SiC Schottky Diodes. <i>Materials Science Forum</i> , 2006, 527-529, 1167-1170.	0.3	4
70	New method for the detection of enzyme immobilized on Si-based glucose Biosensors. , 2006, , .		0
71	Electro-Optical Modulators in Silicon. , 2006, , 53-95.		7
72	Silicon resonant cavity enhanced photodetectors at 1.55 μm. , 2005, , .		0

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73	Thermo-opto-electrical analysis of an optical modulator integrated in a silicon planar structure. , 2005, , .		0
74	A miniaturizable integrated Si-based light modulator. , 2005, , .		0
75	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
76	Ion-Beam Induced Modifications of Titanium Schottky Barrier on 4H-SiC. Materials Science Forum, 2005, 483-485, 729-732.	0.3	1
77	Defect Evolution in Ion Irradiated 6H-SiC Epitaxial Layers. Materials Science Forum, 2005, 483-485, 485-488.	0.3	1
78	Miniaturizable Si-based electro-optical modulator working at 1.5 μ m. Applied Physics Letters, 2005, 86, 201115.	1.5	18
79	Silicon Carbide: Defects and Devices. Solid State Phenomena, 2005, 108-109, 663-670.	0.3	5
80	Ion irradiation of inhomogeneous Schottky barriers on silicon carbide. Journal of Applied Physics, 2005, 97, 123502.	1.1	25
81	Effect of Oxygen on the Diffusion of Nitrogen Implanted in Silicon. Electrochemical and Solid-State Letters, 2004, 7, G161.	2.2	9
82	Defects in He ⁺ Irradiated 6H-SiC Probed by DLTS and LTPL Measurements. Materials Science Forum, 2004, 457-460, 493-496.	0.3	2
83	An integrated Si-based electro-optical modulator. , 2004, , .		0
84	Design, fabrication, and testing of an integrated si-based light modulator. Journal of Lightwave Technology, 2003, 21, 228-235.	2.7	41
85	Characterization and patterning of bacteriorhodopsin films on Si-based materials. Synthetic Metals, 2003, 138, 71-74.	2.1	10
86	Optical and structural characterization of bacterio-rhodopsin films on Si-based materials. Synthetic Metals, 2003, 138, 141-144.	2.1	5
87	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
88	Formation, Evolution And Thermal Stability Of Interstitial Clusters In Ion Implanted c-Si. AIP Conference Proceedings, 2003, , .	0.3	2
89	Design, fabrication, and testing of an integrated Si-based light modulator. , 2003, , .		0
90	Porous-Si-based bioreactors for glucose monitoring and drugs production. , 2003, , .		1

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91	Porous-Si based bioreactors for glucose monitoring. , 2003, , .		1
92	Room Temperature Point Defect Migration in Crystalline Si. Solid State Phenomena, 2002, 82-84, 207-212.	0.3	1
93	Design, fabrication, and testing of an integrated Si-based light modulator: experimental evidence of plasma redistribution. , 2002, , .		1
94	Atomistic simulations and the requirements of process simulator for novel semiconductor devices. Computational Materials Science, 2002, 24, 213-222.	1.4	2
95	Room temperature defect diffusion in ion implanted c-Si. Nuclear Instruments & Methods in Physics Research B, 2002, 186, 265-270.	0.6	4
96	Point defect diffusion and clustering in ion implanted c-Si. Nuclear Instruments & Methods in Physics Research B, 2001, 178, 25-32.	0.6	5
97	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
98	<title>Diamond-based vacuum UV photodetectors for space applications</title>. , 2001, , .		3
99	Self-Interstitial Kinetics and Transient Phenomena in Si Crystals. Solid State Phenomena, 2001, 82-84, 171-176.	0.3	1
100	Formation, evolution, and annihilation of interstitial clusters in ion-implanted Si. Physical Review B, 2001, 63, .	1.1	73
101	Interstitial Cluster Evolution and Transient Phenomena in Si-crystal. , 2001, , 120-123.		0
102	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
103	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
104	Design and fabrication of integrated Si-based optoelectronic devices. Materials Science in Semiconductor Processing, 2000, 3, 375-381.	1.9	17
105	Feasibility analysis of laser action in erbium-doped silicon waveguides. IEEE Journal of Quantum Electronics, 2000, 36, 1206-1213.	1.0	11
106	Transition from small interstitial clusters to extended {311} defects in ion-implanted Si. Applied Physics Letters, 2000, 76, 321-323.	1.5	81
107	The electrical properties of terbium ions in crystalline Si. Journal of Applied Physics, 1999, 85, 2093-2099.	1.1	1
108	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

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109	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	0
110	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
111	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
112	Electrical signatures and thermal stability of interstitial clusters in ion implanted Si. Journal of Applied Physics, 1998, 84, 4749-4756.	1.1	75
113	Depth profiles of vacancy- and interstitial-type defects in MeV implanted Si. Journal of Applied Physics, 1997, 81, 1639-1644.	1.1	67
114	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
115	Defect Evolution in Ion Implanted Si: from Point to Extended Defects. Materials Research Society Symposia Proceedings, 1997, 504, 3.	0.1	5
116	Evolution from point to extended defects in ion implanted silicon. Journal of Applied Physics, 1997, 82, 120-125.	1.1	138
117	Evolution of interstitial- and vacancy-type defects upon thermal annealing in ion-implanted Si. Applied Physics Letters, 1997, 71, 389-391.	1.5	38
118	Optical doping of materials by erbium ion implantation. Nuclear Instruments & Methods in Physics Research B, 1996, 116, 77-84.	0.6	7
119	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
120	Ion implantation doping of Si for optoelectronic applications. Nuclear Instruments & Methods in Physics Research B, 1996, 120, 74-80.	0.6	3
121	Lifetime control in silicon devices by voids induced by He ion implantation. Journal of Applied Physics, 1996, 79, 9012-9016.	1.1	68
122	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
123	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
124	The erbium-impurity interaction and its effects on the 1.54 μ m luminescence of Er ³⁺ in crystalline silicon. Journal of Applied Physics, 1995, 78, 3874-3882.	1.1	187
125	The effects of oxygen and defects on the deep-level properties of Er in crystalline Si. Journal of Applied Physics, 1995, 78, 3867-3873.	1.1	87
126	Fabrication and characterization of polymeric optical waveguides using standard silicon processing technology. , 0, , .		2