

Sandrine Bernardini

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

511
citations

12
h-index

21
g-index

46
ext. papers

590
ext. citations

3.8
avg, IF

3.45
L-index

#	Paper	IF	Citations
43	UV-enhanced ozone gas sensing response of ZnO-SnO ₂ heterojunctions at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 573-579	8.5	80
42	An easy method of preparing ozone gas sensors based on ZnO nanorods. <i>RSC Advances</i> , 2015 , 5, 19528-19533	3.7	58
41	Ozone flexible sensors fabricated by photolithography and laser ablation processes based on ZnO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 602-611	8.5	50
40	Local Structure and Surface Properties of CoZnO Thin Films for Ozone Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26066-26072	9.5	45
39	Ozone and nitrogen dioxide gas sensor based on a nanostructured SrTi _{0.85} Fe _{0.15} O ₃ thin film. <i>Journal of Alloys and Compounds</i> , 2015 , 638, 374-379	5.7	37
38	Highly selective ozone gas sensor based on nanocrystalline Zn _{0.95} Co _{0.05} O thin film obtained via spray pyrolysis technique. <i>Applied Surface Science</i> , 2019 , 478, 347-354	6.7	28
37	One-Dimensional V ₂ O ₅ /TiO ₂ Heterostructures for Chemiresistive Ozone Sensors. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4756-4764	5.6	28
36	Energy state distributions of the Pb centers at the (100), (110), and (111) Si ₃ BiO ₂ interfaces investigated by Laplace deep level transient spectroscopy. <i>Applied Physics Letters</i> , 2008 , 92, 242104	3.4	23
35	The impact of negative-bias-temperature-instability on the carrier generation lifetime of metal-oxynitride-silicon capacitors. <i>Journal of Applied Physics</i> , 2006 , 100, 124103	2.5	21
34	. <i>IEEE Nanotechnology Magazine</i> , 2005 , 4, 360-368	2.6	19
33	All solution processed flexible ammonia gas and light sensors based on hexyl-distyrylbithiophene films. <i>Sensors and Actuators B: Chemical</i> , 2010 , 151, 77-82	8.5	14
32	Microfluidic gas sensor with integrated pumping system. <i>Sensors and Actuators B: Chemical</i> , 2012 , 170, 45-50	8.5	13
31	Reliability nano-characterization of thin SiO ₂ and HfSixOy/SiO ₂ gate stacks. <i>Microelectronic Engineering</i> , 2007 , 84, 2290-2293	2.5	12
30	Efficiency of new ozone filters for NO ₂ sensing and air depollution. <i>Sensors and Actuators B: Chemical</i> , 2018 , 265, 591-599	8.5	7
29	Ammonia detection by a novel Pyrex microsystem based on thermal creep phenomenon. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 714-719	8.5	7
28	Reliability degradation of thin HfO ₂ /SiO ₂ gate stacks by remote RF hydrogen and deuterium plasma treatment. <i>Thin Solid Films</i> , 2008 , 517, 207-208	2.2	7
27	Study of trap centres in silicon nanocrystal memories. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 102, 99-107	3.1	6

26	BTEX gas sensor based on hematite microrhombuses. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 1288817	6
25	A new floating gate compact model applied to flash memory cell. <i>Journal of Non-Crystalline Solids</i> , 2003 , 322, 250-255	3.9 5
24	ZnO/SnO ₂ Heterojunctions Sensors with UV-Enhanced Gas-Sensing Properties at Room Temperature. <i>Proceedings (mdpi)</i> , 2017 , 1, 418	0.3 4
23	Nanoporous Ge thin film production combining Ge sputtering and dopant implantation. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 336-42	3 4
22	Electrically active defects induced by hydrogen and helium implantations in Ge. <i>Materials Science in Semiconductor Processing</i> , 2008 , 11, 354-359	4.3 4
21	Ozone Sensors Working at Room Temperature Using Zinc Oxide Nanocrystals Annealed at Low Temperature. <i>Proceedings (mdpi)</i> , 2017 , 1, 423	0.3 3
20	Ozone Sensor on Flexible Substrate by ZnO Nanoparticles. <i>Key Engineering Materials</i> , 2014 , 605, 163-166	0.4 3
19	A New Active Organic Component for Flexible Ammonia Gas Sensors. <i>Procedia Engineering</i> , 2011 , 25, 1069-1072	3
18	Nanoscale electrical characterization of ultrathin high-k dielectric MOS stacks: A conducting AFM study. <i>Materials Science in Semiconductor Processing</i> , 2008 , 11, 250-253	4.3 3
17	Chemical and optical profiling of ultra thin high-k dielectrics on silicon. <i>Thin Solid Films</i> , 2008 , 517, 459-461	4.2 3
16	Trends in metal oxide thin films: Synthesis and applications of tin oxide 2020 , 219-246	3
15	Direct Laser Patterning of a Gas Sensor on Flexible Substrate. <i>Procedia Engineering</i> , 2014 , 87, 899-902	2
14	Fabrication and characterization of gas detection microfluidic system. <i>Procedia Engineering</i> , 2010 , 5, 1188-1191	2
13	DC and AC MOS transistor modelling in presence of high gate leakage and experimental validation. <i>Solid-State Electronics</i> , 2004 , 48, 597-608	1.7 2
12	Light-induced high-spin state in ZnO nanoparticles. <i>Nanotechnology</i> , 2020 , 31, 095707	3.4 2
11	Te implantation in Ge(001) for n-type doping applications. <i>Materials Science in Semiconductor Processing</i> , 2016 , 42, 215-218	4.3 1
10	Selective Detection of NO ₂ with Specific Filters for O ₃ Trapping. <i>Proceedings (mdpi)</i> , 2017 , 1, 405	0.3 1
9	A tunneling model for gate oxide failure in deep sub-micron technology	1

8	Effect of fixed dielectric charges on tunnelling transparency in MIM and MIS structures. <i>Microelectronic Engineering</i> , 2004 , 72, 90-95	2.5	1
7	Origin and repartition of the oxide fixed charges generated by electrical stress in memory tunnel oxide. <i>Applied Physics Letters</i> , 2004 , 84, 4251-4253	3.4	1
6	Ammonia sensing properties of ZnO nanoparticles on flexible substrate. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2020 , 7, 1-4	0.4	1
5	Ammonia Detection at Low Temperature by Tungsten Oxide Nanowires. <i>Proceedings (mdpi)</i> , 2018 , 2, 983	0.3	1
4	Formation of germanium oxide microcrystals on the surface of Te-implanted Ge. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 252-255	1.2	
3	Extrinsic stacking fault generation related to high- κ dielectric growth on a Si substrate. <i>Microelectronic Engineering</i> , 2007 , 84, 2374-2377	2.5	
2	Nanoscale imaging and X-ray spectroscopy of electrically active defects in ultra thin dielectrics on silicon. <i>Microelectronic Engineering</i> , 2007 , 84, 2286-2289	2.5	
1	Silver Growth on Tungsten Oxide Nanowires for Nitrogen Dioxide Sensing at Low Temperature. <i>Proceedings (mdpi)</i> , 2018 , 2, 946	0.3	