

# Giorgio Sberveglieri

## List of Publications by Year in descending order

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459  
papers

20,579  
citations

9264

74  
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18130

120  
g-index

471  
all docs

471  
docs citations

471  
times ranked

16703  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable and highly sensitive gas sensors based on semiconducting oxide nanobelts. Applied Physics Letters, 2002, 81, 1869-1871.	3.3	1,400
2	Quasi-one dimensional metal oxide semiconductors: Preparation, characterization and application as chemical sensors. Progress in Materials Science, 2009, 54, 1-67.	32.8	582
3	Recent developments in semiconducting thin-film gas sensors. Sensors and Actuators B: Chemical, 1995, 23, 103-109.	7.8	462
4	Ultrasensitive and highly selective gas sensors using three-dimensional tungsten oxide nanowire networks. Applied Physics Letters, 2006, 88, 203101.	3.3	399
5	TiO <sub>2</sub> thin films by a novel sol-gel processing for gas sensor applications. Sensors and Actuators B: Chemical, 2000, 68, 189-196.	7.8	342
6	Metal oxide nanowires as chemical sensors. Materials Today, 2010, 13, 36-44.	14.2	317
7	UV light activation of tin oxide thin films for NO <sub>2</sub> sensing at low temperatures. Sensors and Actuators B: Chemical, 2001, 78, 73-77.	7.8	249
8	WO <sub>3</sub> sputtered thin films for NO <sub>x</sub> monitoring. Sensors and Actuators B: Chemical, 1995, 26, 89-92.	7.8	238
9	Hierarchically Assembled ZnO Nanocrystallites for High-Efficiency Dye-Sensitized Solar Cells. Angewandte Chemie - International Edition, 2011, 50, 12321-12325.	13.8	223
10	Light enhanced gas sensing properties of indium oxide and tin dioxide sensors. Sensors and Actuators B: Chemical, 2000, 65, 260-263.	7.8	214
11	Classification of electronic nose data with support vector machines. Sensors and Actuators B: Chemical, 2005, 107, 730-737.	7.8	198
12	Nanostructured ZnO chemical gas sensors. Ceramics International, 2015, 41, 14239-14244.	4.8	193
13	Gas sensing properties of MoO <sub>3</sub> nanorods to CO and CH <sub>3</sub> OH. Chemical Physics Letters, 2005, 407, 368-371.	2.6	188
14	Classical and novel techniques for the preparation of SnO <sub>2</sub> thin-film gas sensors. Sensors and Actuators B: Chemical, 1992, 6, 239-247.	7.8	183
15	TiO <sub>2</sub> Nanotubes: Recent Advances in Synthesis and Gas Sensing Properties. Sensors, 2013, 13, 14813-14838.	3.8	173
16	Characterization of n-type and p-type semiconductor gas sensors based on NiO <sub>x</sub> doped TiO <sub>2</sub> thin films. Thin Solid Films, 2009, 517, 2775-2780.	1.8	172
17	Comparison of single and binary oxide MoO <sub>3</sub> , TiO <sub>2</sub> and WO <sub>3</sub> sol-gel gas sensors. Sensors and Actuators B: Chemical, 2002, 83, 276-280.	7.8	169
18	1D ZnO nano-assemblies by Plasma-CVD as chemical sensors for flammable and toxic gases. Sensors and Actuators B: Chemical, 2010, 149, 1-7.	7.8	169

#	ARTICLE	IF	CITATIONS
19	First Example of ZnO~TiO <sub>2</sub> Nanocomposites by Chemical Vapor Deposition: Structure, Morphology, Composition, and Gas Sensing Performances. Chemistry of Materials, 2007, 19, 5642-5649.	6.7	164
20	Synthesis and characterization of semiconducting nanowires for gas sensing. Sensors and Actuators B: Chemical, 2007, 121, 208-213.	7.8	163
21	Low temperature selective NO <sub>2</sub> sensors by nanostructured fibres of ZnO. Sensors and Actuators B: Chemical, 2004, 100, 261-265.	7.8	159
22	Metal oxide nanoscience and nanotechnology for chemical sensors. Sensors and Actuators B: Chemical, 2013, 179, 3-20.	7.8	153
23	Investigation on the O <sub>3</sub> sensitivity properties of WO <sub>3</sub> thin films prepared by sol-gel, thermal evaporation and r.f. sputtering techniques. Sensors and Actuators B: Chemical, 2000, 64, 182-188.	7.8	148
24	A novel method for the preparation of NH <sub>3</sub> sensors based on ZnO-In thin films. Sensors and Actuators B: Chemical, 1995, 25, 588-590.	7.8	144
25	Co <sub>3</sub> O <sub>4</sub> /ZnO Nanocomposites: From Plasma Synthesis to Gas Sensing Applications. ACS Applied Materials & Interfaces, 2012, 4, 928-934.	8.0	141
26	Adsorption effects of NO <sub>2</sub> at ppm level on visible photoluminescence response of SnO <sub>2</sub> nanobelts. Applied Physics Letters, 2005, 86, 011923.	3.3	133
27	Novel Synthesis and Gas Sensing Performances of Cu~TiO <sub>2</sub> Nanocomposites Functionalized with Au Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 10510-10517.	3.1	133
28	Nanostructured WO <sub>3</sub> deposited by modified thermal evaporation for gas-sensing applications. Thin Solid Films, 2005, 490, 81-85.	1.8	130
29	Controlled Growth and Sensing Properties of In <sub>2</sub> O <sub>3</sub> Nanowires. Crystal Growth and Design, 2007, 7, 2500-2504.	3.0	130
30	p- and n-type Fe-doped SnO <sub>2</sub> gas sensors fabricated by the mechanochemical processing technique. Sensors and Actuators B: Chemical, 2003, 93, 562-565.	7.8	127
31	Early detection of microbial contamination in processed tomatoes by electronic nose. Food Control, 2009, 20, 873-880.	5.5	127
32	NO <sub>2</sub> monitoring at room temperature by a porous silicon gas sensor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 210-214.	3.5	126
33	MoO <sub>3</sub> -based sputtered thin films for fast NO <sub>2</sub> detection. Sensors and Actuators B: Chemical, 1998, 48, 285-288.	7.8	125
34	A new technique for growing large surface area SnO <sub>2</sub> thin film (RGTO technique). Semiconductor Science and Technology, 1990, 5, 1231-1233.	2.0	123
35	Hybrid Carbon Nanotubes~TiO <sub>2</sub> Photoanodes for High Efficiency Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 14510-14517.	3.1	121
36	Characterization of a nanosized TiO <sub>2</sub> gas sensor. Scripta Materialia, 1996, 7, 709-718.	0.5	114

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37	Chemical vapor deposition of copper oxide films and entangled quasi-1D nanoarchitectures as innovative gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 270-275.	7.8	114
38	Optical, Electrical, and Electromechanical Properties of Hybrid Graphene/Carbon Nanotube Films. <i>Advanced Materials</i> , 2015, 27, 3053-3059.	21.0	114
39	Metal oxide nanocrystals for gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2005, 109, 2-6.	7.8	113
40	Tin oxide nanobelts electrical and sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 2-6.	7.8	112
41	Characterization of a molybdenum oxide sputtered thin film as a gas sensor. <i>Thin Solid Films</i> , 1997, 307, 148-151.	1.8	111
42	Photosensitivity activation of SnO <sub>2</sub> thin film gas sensors at room temperature. <i>Sensors and Actuators B: Chemical</i> , 1996, 31, 99-103.	7.8	109
43	Nanostructured mixed oxides compounds for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2002, 84, 26-32.	7.8	107
44	Reactively sputtered indium tin oxide polycrystalline thin films as NO and NO <sub>2</sub> gas sensors. <i>Thin Solid Films</i> , 1990, 186, 349-360.	1.8	103
45	A novel porous silicon sensor for detection of sub-ppm NO <sub>2</sub> concentrations. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 62-66.	7.8	102
46	Reduced graphene oxide/ZnO nanocomposite for application in chemical gas sensors. <i>RSC Advances</i> , 2016, 6, 34225-34232.	3.6	101
47	Charge storage in ZnIn <sub>2</sub> S <sub>4</sub> single crystals. <i>Applied Physics Letters</i> , 1973, 22, 21-22.	3.3	98
48	Electronic nose and <i>Alicyclobacillus</i> spp. spoilage of fruit juices: An emerging diagnostic tool. <i>Food Control</i> , 2010, 21, 1374-1382.	5.5	97
49	Methods for the preparation of NO, NO <sub>2</sub> and H <sub>2</sub> sensors based on tin oxide thin films, grown by means of the r.f. magnetron sputtering technique. <i>Sensors and Actuators B: Chemical</i> , 1992, 8, 79-88.	7.8	96
50	Oxidation of Sn Thin Films to SnO <sub>2</sub> . Micro-Raman Mapping and X-ray Diffraction Studies. <i>Journal of Materials Research</i> , 1998, 13, 2457-2460.	2.6	93
51	Defect study of SnO <sub>2</sub> nanostructures by cathodoluminescence analysis: Application to nanowires. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 6-12.	7.8	93
52	An electronic nose for the recognition of the vineyard of a red wine. <i>Sensors and Actuators B: Chemical</i> , 1996, 33, 83-88.	7.8	92
53	Silicon hotplates for metal oxide gas sensor elements. <i>Microsystem Technologies</i> , 1997, 3, 183-190.	2.0	92
54	Columnar CeO <sub>2</sub> nanostructures for sensor application. <i>Nanotechnology</i> , 2007, 18, 125502.	2.6	92

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55	Titanium dioxide thin films prepared for alcohol microsensor applications. <i>Sensors and Actuators B: Chemical</i> , 2000, 66, 139-141.	7.8	90
56	Investigation of sol-gel prepared CeO <sub>2</sub> -TiO <sub>2</sub> thin films for oxygen gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 145-150.	7.8	90
57	Urchin-like ZnO nanorod arrays for gas sensing applications. <i>CrystEngComm</i> , 2010, 12, 3419.	2.6	90
58	The aging effect on SnO <sub>2</sub> -Au thin film sensors: electrical and structural characterization. <i>Thin Solid Films</i> , 2000, 371, 249-253.	1.8	89
59	The novel EOS835 electronic nose and data analysis for evaluating coffee ripening. <i>Sensors and Actuators B: Chemical</i> , 2005, 110, 73-80.	7.8	86
60	Synthesis of different ZnO nanostructures by modified PVD process and potential use for dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2010, 124, 694-698.	4.0	86
61	Data preprocessing enhances the classification of different brands of Espresso coffee with an electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2000, 69, 397-403.	7.8	85
62	Bovine Serum Albumin protofibril-like aggregates formation: Solo but not simple mechanism. <i>Archives of Biochemistry and Biophysics</i> , 2011, 508, 13-24.	3.0	84
63	Semiconductor MoO <sub>3</sub> -TiO <sub>2</sub> thin film gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 472-477.	7.8	83
64	Metal Oxide Nanostructures in Food Applications: Quality Control and Packaging. <i>Chemosensors</i> , 2018, 6, 16.	3.6	83
65	Preparation of nanosized titania thick and thin films as gas-sensors. <i>Sensors and Actuators B: Chemical</i> , 1999, 57, 197-200.	7.8	82
66	Single crystal ZnO nanowires as optical and conductometric chemical sensor. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7255-7259.	2.8	82
67	Sensitivity enhancement towards ethanol and methanol of TiO <sub>2</sub> films doped with Pt and Nb. <i>Sensors and Actuators B: Chemical</i> , 2000, 64, 169-174.	7.8	81
68	Multiparametric Porous Silicon Sensors. <i>Sensors</i> , 2002, 2, 121-126.	3.8	81
69	In <sub>2</sub> O <sub>3</sub> nanowires for gas sensors: morphology and sensing characterisation. <i>Thin Solid Films</i> , 2007, 515, 8356-8359.	1.8	81
70	Au/Fe <sub>2</sub> O <sub>3</sub> Nanocomposites as Selective NO <sub>2</sub> Gas Sensors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11813-11819.	3.1	81
71	Detection of toxigenic strains of <i>Fusarium verticillioides</i> in corn by electronic olfactory system. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 250-257.	7.8	80
72	Reversed bias Pt/nanostructured ZnO Schottky diode with enhanced electric field for hydrogen sensing. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 507-512.	7.8	77

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73	CO sensing properties of titanium and iron oxide nanosized thin films. Sensors and Actuators B: Chemical, 2001, 77, 16-21.	7.8	76
74	Structural and optical study of SnO <sub>2</sub> nanobelts and nanowires. Materials Science and Engineering C, 2005, 25, 625-630.	7.3	75
75	Radio frequency magnetron sputtering growth and characterization of indium-tin oxide (ITO) thin films for NO <sub>2</sub> gas sensors. Sensors and Actuators, 1988, 15, 235-242.	1.7	74
76	Highly sensitive and selective NO <sub>x</sub> and NO <sub>2</sub> sensor based on Cd-doped SnO <sub>2</sub> thin films. Sensors and Actuators B: Chemical, 1991, 4, 457-461.	7.8	74
77	Electrical Properties of Tin Dioxide Two-Dimensional Nanostructures. Journal of Physical Chemistry B, 2004, 108, 1882-1887.	2.6	74
78	Complex chemical pattern recognition with sensor array: the discrimination of vintage years of wine. Sensors and Actuators B: Chemical, 1995, 25, 801-804.	7.8	71
79	Carbon monoxide response of molybdenum oxide thin films deposited by different techniques. Sensors and Actuators B: Chemical, 2000, 68, 168-174.	7.8	71
80	A novel method for the preparation of nanosized tio <sub>2</sub> thin films. Advanced Materials, 1996, 8, 334-337.	21.0	70
81	Graphene below the percolation threshold in TiO <sub>2</sub> for dye-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 2580-2588.	10.3	70
82	Functionalised zinc oxide nanowire gas sensors: Enhanced NO <sub>2</sub> gas sensor response by chemical modification of nanowire surfaces. Beilstein Journal of Nanotechnology, 2012, 3, 368-377.	2.8	69
83	Nanostructured Metal Oxide Gas Sensors, a Survey of Applications Carried out at SENSOR Lab, Brescia (Italy) in the Security and Food Quality Fields. Sensors, 2012, 12, 17023-17045.	3.8	68
84	Flexible dye sensitized solar cells using TiO <sub>2</sub> nanotubes. Energy and Environmental Science, 2011, 4, 3408.	30.8	67
85	Coffee analysis with an electronic nose. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 1334-1339.	4.7	66
86	Luminescence response of ZnO nanowires to gas adsorption. Sensors and Actuators B: Chemical, 2009, 140, 461-466.	7.8	65
87	TiO <sub>2</sub> nanotubular and nanoporous arrays by electrochemical anodization on different substrates. RSC Advances, 2011, 1, 1038.	3.6	65
88	Sub-ppm NO <sub>2</sub> sensors based on nanosized thin films of titanium-tungsten oxides. Sensors and Actuators B: Chemical, 1996, 31, 89-92.	7.8	64
89	Gas Sensing Behavior of Mesoporous $\text{SiO}_2$ Glasses. Journal of the American Ceramic Society, 2013, 96, 2366-2369.	3.8	63
90	Rapid diagnosis of Enterobacteriaceae in vegetable soups by a metal oxide sensor based electronic nose. Sensors and Actuators B: Chemical, 2015, 207, 1104-1113.	7.8	63

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91	Preparation and micro-structural characterization of nanosized thin film of TiO <sub>2</sub> -WO <sub>3</sub> as a novel material with high sensitivity towards NO <sub>2</sub> . Sensors and Actuators B: Chemical, 1996, 36, 381-383.	7.8	60
92	Thin-film gas sensor implemented on a low-power-consumption micromachined silicon structure. Sensors and Actuators B: Chemical, 1998, 49, 88-92.	7.8	60
93	Synthesis and integration of tin oxide nanowires into an electronic nose. Vacuum, 2012, 86, 532-535.	3.5	60
94	Front-side micromachined porous silicon nitrogen dioxide gas sensor. Thin Solid Films, 2001, 391, 261-264.	1.8	59
95	Characterization of Ga <sub>2</sub> O <sub>3</sub> based MRISiC hydrogen gas sensors. Sensors and Actuators B: Chemical, 2004, 103, 129-135.	7.8	59
96	The features of thin film and ceramic sensors at the detection of CO and NO <sub>2</sub> . Sensors and Actuators B: Chemical, 2000, 68, 344-350.	7.8	58
97	Preparation of copper oxide nanowire-based conductometric chemical sensors. Sensors and Actuators B: Chemical, 2013, 182, 7-15.	7.8	58
98	Preparation and characteristics of CuGaSe <sub>2</sub> /CdS solar cells. Applied Physics Letters, 1977, 30, 108-110.	3.3	57
99	Gas detection with a porous silicon based sensor. Sensors and Actuators B: Chemical, 2000, 65, 257-259.	7.8	57
100	On the mechanism of photoluminescence quenching in tin dioxide nanowires by NO <sub>2</sub> adsorption. New Journal of Physics, 2008, 10, 043013.	2.9	57
101	Metal oxide nanowires: Preparation and application in gas sensing. Journal of Molecular Catalysis A, 2009, 305, 170-177.	4.8	57
102	Cavitands as selective materials for QMB sensors for nitrobenzene and other aromatic vapours. Sensors and Actuators B: Chemical, 1993, 13, 302-304.	7.8	56
103	Sol-gel TiO <sub>2</sub> and W/TiO <sub>2</sub> nanostructured thin films for control of drunken driving. Sensors and Actuators B: Chemical, 2002, 83, 230-237.	7.8	56
104	Layered WO <sub>3</sub> /ZnO/36Å° LiTaO <sub>3</sub> SAW gas sensor sensitive towards ethanol vapour and humidity. Sensors and Actuators B: Chemical, 2006, 117, 442-450.	7.8	56
105	Preparation of Radial and Longitudinal Nanosized Heterostructures of In <sub>2</sub> O <sub>3</sub> and SnO <sub>2</sub> . Nano Letters, 2007, 7, 3553-3558.	9.1	56
106	Plasma enhanced-CVD of undoped and fluorine-doped Co <sub>3</sub> O <sub>4</sub> nanosystems for novel gas sensors. Sensors and Actuators B: Chemical, 2011, 160, 79-86.	7.8	56
107	Indium oxide quasi-monodimensional low temperature gas sensor. Sensors and Actuators B: Chemical, 2006, 118, 204-207.	7.8	55
108	CuO/ZnO Nanocomposite Gas Sensors Developed by a Plasma-Assisted Route. ChemPhysChem, 2012, 13, 2342-2348.	2.1	55

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109	A novel PVD technique for the preparation of SnO <sub>2</sub> thin films as C <sub>2</sub> H <sub>5</sub> OH sensors. <i>Sensors and Actuators B: Chemical</i> , 1992, 7, 721-726.	7.8	54
110	Structural Studies of Tungsten-Titanium Oxide Thin Films. <i>Journal of Solid State Chemistry</i> , 1996, 121, 379-387.	2.9	54
111	Gas-sensing applications of W-Ti-O-based nanosized thin films prepared by r.f. reactive sputtering. <i>Sensors and Actuators B: Chemical</i> , 1997, 44, 499-502.	7.8	54
112	Metal Oxide Nanowire and Thin-Film-Based Gas Sensors for Chemical Warfare Simulants Detection. <i>IEEE Sensors Journal</i> , 2008, 8, 735-742.	4.7	54
113	Metal-free organic sensitizers with a sterically hindered thiophene unit for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 13785.	6.7	54
114	ZnO@SnO <sub>2</sub> engineered composite photoanodes for dye sensitized solar cells. <i>Scientific Reports</i> , 2015, 5, 14523.	3.3	54
115	Crystal growth and properties of Cu <sub>x</sub> Ga <sub>1-x</sub> Se <sub>2</sub> chalcopyrite compound. <i>Solar Energy Materials and Solar Cells</i> , 1979, 1, 3-9.	0.4	53
116	Novel Materials and Applications of Electronic Noses and Tongues. <i>MRS Bulletin</i> , 2004, 29, 697-702.	3.5	53
117	Hydrogen and hydrocarbon gas sensing performance of Pt/WO <sub>3</sub> /SiC MROSiC devices. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 111-116.	7.8	53
118	Alicyclobacillus spp.: Detection in soft drinks by Electronic Nose. <i>Food Research International</i> , 2010, 43, 2108-2114.	6.2	53
119	Structural and gas-sensing characterization of tungsten oxide nanorods and nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 340-346.	7.8	53
120	Ozone detection using low-power-consumption metal-oxide gas sensors. <i>Sensors and Actuators A: Physical</i> , 1999, 74, 229-232.	4.1	52
121	Microstructure and morphology of tin dioxide multilayer thin film gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1997, 44, 268-274.	7.8	51
122	Fabrication and investigation of gas sensing properties of Nb-doped TiO <sub>2</sub> nanotubular arrays. <i>Nanotechnology</i> , 2012, 23, 235706.	2.6	51
123	Controlled synthesis and properties of Fe <sup>2+</sup> -Fe <sub>2</sub> O <sub>3</sub> nanosystems functionalized with Ag or Pt nanoparticles. <i>CrystEngComm</i> , 2012, 14, 6469.	2.6	51
124	Reduced Graphene Oxide-TiO <sub>2</sub> Nanotube Composite: Comprehensive Study for Gas-Sensing Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 7098-7105.	5.0	51
125	Characterization of porous Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> /Si sensor for low and medium humidity ranges. <i>Sensors and Actuators B: Chemical</i> , 1995, 23, 177-180.	7.8	50
126	The kinetics of formation of gas-sensitive RGTO-SnO <sub>2</sub> films. <i>Thin Solid Films</i> , 1995, 263, 231-237.	1.8	50



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127	Very low power consumption micromachined CO sensors. <i>Sensors and Actuators B: Chemical</i> , 1999, 55, 140-146.	7.8	50
128	Response to nitrix oxide of thin and thick SnO <sub>2</sub> films containing trivalent additives. <i>Sensors and Actuators B: Chemical</i> , 1990, 1, 79-82.	7.8	49
129	A thin-film SnO <sub>2</sub> sensor system for simultaneous detection of CO and NO <sub>2</sub> with neural signal evaluation. <i>Sensors and Actuators B: Chemical</i> , 1996, 36, 353-357.	7.8	49
130	Data analysis for a hybrid sensor array. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 136-143.	7.8	49
131	STM and XPS characterisation of vacuum annealed nanocrystalline WO <sub>3</sub> films. <i>Surface Science</i> , 2007, 601, 4953-4957.	1.9	49
132	Orthorhombic Pbcn SnO <sub>2</sub> nanowires for gas sensing applications. <i>Journal of Crystal Growth</i> , 2008, 310, 253-260.	1.5	49
133	Selective H <sub>2</sub> S gas sensors based on ohmic hetero-interface of Au-functionalized WO <sub>3</sub> nanowires. <i>Applied Surface Science</i> , 2022, 571, 151262.	6.1	49
134	Microstructural characterization of a titanium-tungsten oxide gas sensor. <i>Journal of Materials Research</i> , 1997, 12, 793-798.	2.6	48
135	On the role of catalytic additives in gas-sensitivity of SnO <sub>2</sub> -Mo based thin film sensors. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 268-274.	7.8	48
136	Low resistivity ZnCdS films for use as windows in heterojunction solar cells. <i>Applied Physics Letters</i> , 1978, 32, 807-809.	3.3	47
137	Effect of nickel ions on sensitivity of In <sub>2</sub> O <sub>3</sub> thin film sensors to NO <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , 1999, 57, 153-158.	7.8	47
138	Comparing the performance of different features in sensor arrays. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 437-443.	7.8	47
139	Hierarchical self-assembled Cu <sub>2</sub> S nanostructures: Fast and reproducible spray deposition of effective counter electrodes for high efficiency quantum dot solar cells. <i>Nano Energy</i> , 2014, 6, 200-210.	16.0	47
140	Investigation of Reduced Graphene Oxide and a Nb-Doped TiO <sub>2</sub> Nanotube Hybrid Structure To Improve the Gas-Sensing Response and Selectivity. <i>ACS Sensors</i> , 2019, 4, 2094-2100.	7.8	47
141	Gold-catalysed porous silicon for NO <sub>x</sub> sensing. <i>Sensors and Actuators B: Chemical</i> , 2000, 68, 74-80.	7.8	46
142	Semiconducting tin oxide nanowires and thin films for Chemical Warfare Agents detection. <i>Thin Solid Films</i> , 2009, 517, 6156-6160.	1.8	46
143	Highly sensitive and selective detection of dimethylamine through Nb-doping of TiO <sub>2</sub> nanotubes for potential use in seafood quality control. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127217.	7.8	46
144	Conductivity and work function ozone sensors based on indium oxide. <i>Sensors and Actuators B: Chemical</i> , 1998, 49, 63-67.	7.8	45

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145	Cr-inserted TiO <sub>2</sub> thin films for chemical gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2007, 128, 312-319.	7.8	44
146	Electronic nose predicts high and low fumonisin contamination in maize cultures. <i>Food Research International</i> , 2011, 44, 992-999.	6.2	44
147	SnO <sub>2</sub> /RGTO UV Activation for CO Monitoring. <i>IEEE Sensors Journal</i> , 2004, 4, 17-20.	4.7	43
148	Nucleation and growth of SnO <sub>2</sub> nanowires. <i>Journal of Crystal Growth</i> , 2005, 275, e2083-e2087.	1.5	43
149	Random forests and nearest shrunken centroids for the classification of sensor array data. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 93-99.	7.8	43
150	Tailoring the textured surface of porous nanostructured NiO thin films for the detection of pollutant gases. <i>Thin Solid Films</i> , 2015, 583, 233-238.	1.8	43
151	Tin oxide gas sensing: Comparison among different measurement techniques for gas mixture classification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2003, 52, 921-926.	4.7	42
152	Nanosized thin films of tungsten-titanium mixed oxides as gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1999, 58, 289-294.	7.8	41
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