

Anna Bonavita

List of Publications by Year in descending order

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64
papers

2,870
citations

126907

33
h-index

168389

53
g-index

65
all docs

65
docs citations

65
times ranked

3729
citing authors

#	ARTICLE	IF	CITATIONS
1	Resistive CO gas sensors based on In ₂ O ₃ and InSnO _x nanopowders synthesized via starch-aided sol-gel process for automotive applications. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 224-233.	7.8	172
2	CO and NO ₂ sensing properties of doped-Fe ₂ O ₃ thin films prepared by LPD. <i>Sensors and Actuators B: Chemical</i> , 2002, 82, 40-47.	7.8	123
3	CO gas sensing of ZnO nanostructures synthesized by an assisted microwave wet chemical route. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 198-204.	7.8	122
4	Flexible ethanol sensors on glossy paper substrates operating at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 488-494.	7.8	106
5	Vanadium Oxide Sensing Layer Grown on Carbon Nanotubes by a New Atomic Layer Deposition Process. <i>Nano Letters</i> , 2008, 8, 4201-4204.	9.1	103
6	Synthesis, Characterization and Gas Sensing Properties of Ag@ \pm -Fe ₂ O ₃ Core-Shell Nanocomposites. <i>Nanomaterials</i> , 2015, 5, 737-749.	4.1	102
7	Simultaneous electrochemical determination of epinephrine and uric acid in the presence of ascorbic acid using SnO ₂ /graphene nanocomposite modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1412-1422.	7.8	99
8	Methanol gas-sensing properties of CeO ₂ -Fe ₂ O ₃ thin films. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 687-695.	7.8	98
9	Ethanol sensors based on Pt-doped tin oxide nanopowders synthesised by gel-combustion. <i>Sensors and Actuators B: Chemical</i> , 2006, 117, 196-204.	7.8	93
10	In ₂ O ₃ and Pt-In ₂ O ₃ nanopowders for low temperature oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 455-462.	7.8	89
11	Enhanced performance of novel calcium/aluminum co-doped zinc oxide for CO ₂ sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 36-44.	7.8	88
12	Effect of the chemical composition on the sensing properties of In ₂ O ₃ -SnO ₂ nanoparticles synthesized by a non-aqueous method. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 222-230.	7.8	81
13	A highly sensitive oxygen sensor operating at room temperature based on platinum-doped In ₂ O ₃ nanocrystals. <i>Chemical Communications</i> , 2005, , 6032.	4.1	71
14	ZnO:Ca nanopowders with enhanced CO ₂ sensing properties. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 255503.	2.8	68
15	CO sensing properties of Ga-doped ZnO prepared by sol-gel route. <i>Journal of Alloys and Compounds</i> , 2015, 634, 187-192.	5.5	62
16	LaFeO ₃ ceramics as selective oxygen sensors at mild temperature. <i>Ceramics International</i> , 2018, 44, 4183-4189.	4.8	60
17	Synthesis and characterization of mesoporous \pm -Fe ₂ O ₃ nanoparticles and investigation of electrical properties of fabricated thick films. <i>Processing and Application of Ceramics</i> , 2016, 10, 209-217.	0.8	60
18	The controlled deposition of metal oxides onto carbon nanotubes by atomic layer deposition: examples and a case study on the application of V ₂ O ₄ coated nanotubes in gas sensing. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3615.	2.8	54

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19	Gas sensing properties of Al-doped ZnO for UV-activated CO detection. Journal Physics D: Applied Physics, 2016, 49, 135502.	2.8	54
20	Role of the Au oxidation state in the CO sensing mechanism of Au/iron oxide-based gas sensors. Sensors and Actuators B: Chemical, 2003, 93, 402-408.	7.8	49
21	CO sensing properties under UV radiation of Ga-doped ZnO nanopowders. Applied Surface Science, 2015, 355, 1321-1326.	6.1	48
22	In-situ grown flower-like nanostructured CuO on screen printed carbon electrodes for non-enzymatic amperometric sensing of glucose. Mikrokimica Acta, 2017, 184, 2375-2385.	5.0	48
23	Non-enzymatic Glucose Sensor Based on Nickel/Carbon Composite. Electroanalysis, 2018, 30, 727-733.	2.9	48
24	Towards enhanced performances in gas sensing: SnO ₂ based nanocrystalline oxides application. Sensors and Actuators B: Chemical, 2007, 122, 564-571.	7.8	46
25	A novel disposable electrochemical sensor for determination of carbamazepine based on Fe doped SnO ₂ nanoparticles modified screen-printed carbon electrode. Materials Science and Engineering C, 2016, 62, 53-60.	7.3	45
26	Micro-Raman analysis of titanium oxide/carbon nanotubes-based nanocomposites for hydrogen sensing applications. Journal of Solid State Chemistry, 2010, 183, 2451-2455.	2.9	44
27	Humidity sensing properties of Li-ion iron oxide based thin films. Sensors and Actuators B: Chemical, 2001, 73, 89-94.	7.8	43
28	Structural, morphological and optical properties of Bi-doped ZnO nanoparticles synthesized by a microwave irradiation method. Journal of Materials Science: Materials in Electronics, 2015, 26, 4913-4921.	2.2	42
29	Effect of gamma irradiation on structural, electrical and gas sensing properties of tungsten oxide nanoparticles. Journal of Alloys and Compounds, 2017, 693, 366-372.	5.5	42
30	Flexible, all-organic ammonia sensor based on dodecylbenzene sulfonic acid-doped polyaniline films. Thin Solid Films, 2010, 518, 7133-7137.	1.8	41
31	Two-Dimensional (2D) SnS ₂ -based Oxygen Sensor. Procedia Engineering, 2016, 168, 1102-1105.	1.2	37
32	CO sensing characteristics of In-doped ZnO semiconductor nanoparticles. Journal of Science: Advanced Materials and Devices, 2017, 2, 34-40.	3.1	37
33	Microwave irradiated Sn-substituted CdO nanostructures for enhanced CO ₂ sensing. Ceramics International, 2015, 41, 14766-14772.	4.8	35
34	Pd- and Ca-doped iron oxide for ethanol vapor sensing. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 139, 41-47.	3.5	34
35	Gold promoted Li-ion Fe ₂ O ₃ thin films for humidity sensors. Sensors and Actuators B: Chemical, 2003, 92, 326-330.	7.8	32
36	A study of water influence on CO response on gold-doped iron oxide sensors. Sensors and Actuators B: Chemical, 2004, 101, 90-96.	7.8	31

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37	Gasochromic response of nanocrystalline vanadium pentoxide films deposited from ethanol dispersions. <i>Thin Solid Films</i> , 2010, 518, 7124-7127.	1.8	31
38	Design and Development of a Breath Acetone MOS Sensor for Ketogenic Diets Control. <i>IEEE Sensors Journal</i> , 2010, 10, 131-136.	4.7	31
39	Ammonia sensing properties of two-dimensional tin disulphide/tin oxides (SnS ₂ /SnO _{2-x}) mixed phases. <i>Journal of Alloys and Compounds</i> , 2019, 781, 440-449.	5.5	28
40	FeSrTiO ₃ -based resistive oxygen sensors for application in diesel engines. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 647-653.	7.8	27
41	Investigations on the effect of gamma-ray irradiation on the gas sensing properties of SnO ₂ nanoparticles. <i>Nanotechnology</i> , 2016, 27, 385502.	2.6	26
42	Resistive $\hat{\imath}$ -sensors based on ball milled Fe-doped SrTiO ₃ nanopowders obtained by self-propagating high-temperature synthesis (SHS). <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 258-265.	7.8	25
43	HREELS study of Au/Fe ₂ O ₃ thick film gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2001, 80, 222-228.	7.8	24
44	CO ₂ sensing properties of electro-spun Ca-doped ZnO fibres. <i>Nanotechnology</i> , 2018, 29, 305501.	2.6	24
45	Characterisation and H ₂ O ₂ sensing properties of TiO ₂ -CNTs/Pt electro-catalysts. <i>Materials Chemistry and Physics</i> , 2016, 170, 129-137.	4.0	22
46	Electrochemical Sensing of Serotonin by a Modified MnO ₂ -Graphene Electrode. <i>Biosensors</i> , 2020, 10, 33.	4.7	21
47	Development of a hydrogen dual sensor for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11896-11902.	7.1	20
48	A study on the microstructure and gas sensing properties of ITO nanocrystals. <i>Thin Solid Films</i> , 2007, 515, 8637-8640.	1.8	19
49	Influence of processing parameters on the electrical response of screen printed SrFe _{0.6} Ti _{0.4} O ₃ thick films. <i>Ceramics International</i> , 2010, 36, 521-527.	4.8	18
50	RF sputtered ZnO/ITO films for high temperature CO sensors. <i>Thin Solid Films</i> , 2009, 517, 6184-6187.	1.8	17
51	Electrochemical Properties of Ag@iron Oxide Nanocomposite for Application as Nitrate Sensor. <i>Electroanalysis</i> , 2015, 27, 2654-2662.	2.9	17
52	Tungsten Oxide Nanowires-Based Ammonia Gas Sensors. <i>Sensor Letters</i> , 2008, 6, 590-595.	0.4	17
53	A dirhodium(II,II) molecular species as a candidate material for resistive carbon monoxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 772-778.	7.8	15
54	O ₂ sensing properties of Zn- and Au-doped Fe ₂ O ₃ thin films. <i>IEEE Sensors Journal</i> , 2003, 3, 195-198.	4.7	14

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55	Origin of the different behavior of some platinum decorated nanocarbons towards the electrochemical oxidation of hydrogen peroxide. <i>Materials Chemistry and Physics</i> , 2016, 184, 269-278.	4.0	14
56	Preparation, characterization and CO sensing of Au/iron oxide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2002, 13, 561-565.	2.2	13
57	Low temperature sol-gel synthesis and humidity sensing properties of $\text{Cr}_2\text{xTi}_x\text{O}_3$. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1435-1438.	5.7	11
58	Microwave-assisted synthesis of $\text{Cd}(\text{OH})_2/\text{CdO}$ nanorods: Effect of irradiation time. <i>Superlattices and Microstructures</i> , 2016, 90, 117-123.	3.1	8
59	Investigation of Permeation Tubes for Temperature-Compensated Gas-Sensor Calibrators. <i>IEEE Sensors Journal</i> , 2006, 6, 1120-1125.	4.7	7
60	Alternative Sol-Gel Routes for Synthesizing Gas Sensing Nanostructured Materials. <i>ECS Transactions</i> , 2006, 3, 221-231.	0.5	5
61	Effect of Ga-doping and UV Radiation on High Performance CO Sensing of ZnO Nano-powders. <i>Procedia Engineering</i> , 2014, 87, 1079-1082.	1.2	3
62	A comparative study on the electrical and gas sensing properties of thick films prepared with synthesized nano-sized and commercial micro-sized Fe_2O_3 powders. <i>Processing and Application of Ceramics</i> , 2017, 11, 265-274.	0.8	3
63	Tailoring the Structural and Microstructural Properties of Nanosized Tantalum Oxide for High Temperature Electrochemical Gas Sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4430-4436.	0.9	1
64	Sunflower pollen-assisted synthesis of nanosized semiconducting ZnO and its application in the selective sensing of NO_2 . <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 11096-11103.	2.2	0