

Radu Ionescu

List of Publications by Year in descending order

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76
papers

3,354
citations

145106

33
h-index

162838

57
g-index

77
all docs

77
docs citations

77
times ranked

4152
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of exhaled breath for dengue disease detection by low-cost electronic nose system. Measurement: Journal of the International Measurement Confederation, 2022, 190, 110733.	2.5	10
2	Non-Invasive Staging of In Vitro Mice Embryos by Means of Volatolomics. ACS Sensors, 2022, 7, 2006-2011.	4.0	0
3	Review on Volatolomic Studies as a Frontier Approach in Animal Research. Advanced Biology, 2021, 5, e2000397.	1.4	1
4	Non-Invasive Method to Detect Infection with Mycobacterium tuberculosis Complex in Wild Boar by Measurement of Volatile Organic Compounds Obtained from Feces with an Electronic Nose System. Sensors, 2021, 21, 584.	2.1	5
5	Assessment of Electronic Sensing Techniques for the Rapid Identification of Alveolar Echinococcosis through Exhaled Breath Analysis. Sensors, 2020, 20, 2666.	2.1	6
6	Evaluation of Volatile Organic Compounds Obtained from Breath and Feces to Detect Mycobacterium tuberculosis Complex in Wild Boar (Sus scrofa) in Doñana National Park, Spain. Pathogens, 2020, 9, 346.	1.2	10
7	Non-invasive prediction of lung cancer histological types through exhaled breath analysis by UV-irradiated electronic nose and GC/QTOF/MS. Sensors and Actuators B: Chemical, 2020, 311, 127932.	4.0	46
8	Exhaled air analysis as a potential fast method for early diagnosis of dengue disease. Sensors and Actuators B: Chemical, 2020, 310, 127859.	4.0	10
9	Formaldehyde detection with chemical gas sensors based on WO ₃ nanowires decorated with metal nanoparticles under dark conditions and UV light irradiation. Sensors and Actuators B: Chemical, 2020, 320, 128331.	4.0	59
10	Casein-Conjugated Gold Nanoparticles for Amperometric Detection of Leishmania infantum. Biosensors, 2019, 9, 68.	2.3	14
11	Exhaled breath analysis using electronic nose and gas chromatography-mass spectrometry for non-invasive diagnosis of chronic kidney disease, diabetes mellitus and healthy subjects. Sensors and Actuators B: Chemical, 2018, 257, 178-188.	4.0	153
12	Fabrication and characterisation of ligand-functionalised ultrapure monodispersed metal nanoparticle nanoassemblies employing advanced gas deposition technique. Nanotechnology, 2018, 29, 065603.	1.3	9
13	Ligand-Capped Ultrapure Metal Nanoparticle Sensors for the Detection of Cutaneous Leishmaniasis Disease in Exhaled Breath. ACS Sensors, 2018, 3, 2532-2540.	4.0	18
14	Diagnosis of Human Echinococcosis via Exhaled Breath Analysis: A Promise for Rapid Diagnosis of Infectious Diseases Caused by Helminths. Journal of Infectious Diseases, 2018, 219, 101-109.	1.9	10
15	Exhaled breath gas sensing using pristine and functionalized WO ₃ nanowire sensors enhanced by UV-light irradiation. Sensors and Actuators B: Chemical, 2018, 273, 1719-1729.	4.0	45
16	Exhaled breath analysis for gastric cancer diagnosis in Colombian patients. Oncotarget, 2018, 9, 28805-28817.	0.8	31
17	Artificial Sensory Systems Combined with UV-Vis Spectrophotometry as a Robust Approach for VOCs Analysis of Human Urine and Exhaled Breath. Procedia Technology, 2017, 27, 256-257.	1.1	3
18	Fabrication of ultra-pure gold nanoparticles capped with dodecanethiol for Schottky-diode chemical gas sensing devices. Sensors and Actuators B: Chemical, 2017, 239, 455-461.	4.0	18

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19	Non-Gaussian Resistance Fluctuations in Gold-Nanoparticle-Based Gas Sensors: An Appraisal of Different Evaluation Techniques. <i>Sensors</i> , 2017, 17, 757.	2.1	2
20	Gas Sensing Approaches Based on WO ₃ Nanowire-Back Gated Devices. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	1
21	Ultrapure Organically Modified Gold Nanoparticles for Breath Analysis. <i>Procedia Engineering</i> , 2016, 168, 133-136.	1.2	4
22	Fluctuation enhanced gas sensing with WO ₃ -based nanoparticle gas sensors modulated by UV light at selected wavelengths. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 453-461.	4.0	51
23	Fluctuation-enhanced sensing with organically functionalized gold nanoparticle gas sensors targeting biomedical applications. <i>Talanta</i> , 2016, 160, 9-14.	2.9	14
24	Sensor Arrays: Printing Ultrasensitive Artificially Intelligent Sensors Array with a Single Self-Propelled Droplet Containing Nanoparticles (<i>Adv. Funct. Mater.</i> 35/2016). <i>Advanced Functional Materials</i> , 2016, 26, 6322-6322.	7.8	1
25	Printing Ultrasensitive Artificially Intelligent Sensors Array with a Single Self-Propelled Droplet Containing Nanoparticles. <i>Advanced Functional Materials</i> , 2016, 26, 6359-6370.	7.8	20
26	UV-Light-Induced Fluctuation Enhanced Sensing by WO ₃ -Based Gas Sensors. <i>IEEE Sensors Journal</i> , 2016, 16, 5152-5159.	2.4	16
27	Determination Of Gas Mixture Components Using Fluctuation Enhanced Sensing And The LS-SVM Regression Algorithm. <i>Metrology and Measurement Systems</i> , 2015, 22, 341-350.	1.4	51
28	Efficiency of gas detection algorithms using fluctuation enhanced sensing. , 2015, , .		1
29	New approaches for improving selectivity and sensitivity of resistive gas sensors: a review. <i>Sensor Review</i> , 2015, 35, 340-347.	1.0	75
30	Detection of seasonal allergic rhinitis from exhaled breath VOCs using an electronic nose based on an array of chemical sensors. , 2015, , .		14
31	Assessment of ovarian cancer conditions from exhaled breath. <i>International Journal of Cancer</i> , 2015, 136, E614-22.	2.3	114
32	Assessment of Ovarian Cancer Conditions From Exhaled Breath. <i>Obstetrical and Gynecological Survey</i> , 2015, 70, 89-91.	0.2	72
33	Impact of hemodialysis on exhaled volatile organic compounds in end-stage renal disease: a pilot study. <i>Nanomedicine</i> , 2014, 9, 1035-1045.	1.7	20
34	Volatile fingerprints of cancer specific genetic mutations. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 758-766.	1.7	100
35	A nanomaterial-based breath test for distinguishing gastric cancer from benign gastric conditions. <i>British Journal of Cancer</i> , 2013, 108, 941-950.	2.9	203
36	Detection of Alzheimer's and Parkinson's disease from exhaled breath using nanomaterial-based sensors. <i>Nanomedicine</i> , 2013, 8, 43-56.	1.7	172

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37	Detection of Asymptomatic Nigrostriatal Dopaminergic Lesion in Rats by Exhaled Air Analysis Using Carbon Nanotube Sensors. ACS Chemical Neuroscience, 2012, 3, 161-166.	1.7	51
38	Polycyclic Aromatic Hydrocarbon for the Detection of Nonpolar Analytes under Counteracting Humidity Conditions. ACS Applied Materials & Interfaces, 2012, 4, 4960-4965.	4.0	26
39	Detection of volatile organic compounds in cattle naturally infected with Mycobacterium bovis. Sensors and Actuators B: Chemical, 2012, 171-172, 588-594.	4.0	68
40	Development of an extremely selective e-nose employing a single polycyclic aromatic hydrocarbon-based chemFET. , 2011, , .		0
41	Nanoarray of Polycyclic Aromatic Hydrocarbons and Carbon Nanotubes for Accurate and Predictive Detection in Real-World Environmental Humidity. ACS Nano, 2011, 5, 6743-6753.	7.3	97
42	Detection of Multiple Sclerosis from Exhaled Breath Using Bilayers of Polycyclic Aromatic Hydrocarbons and Single-Wall Carbon Nanotubes. ACS Chemical Neuroscience, 2011, 2, 687-693.	1.7	113
43	3D Localization and Tracking of Objects Using Miniature Microphones. Wireless Sensor Network, 2011, 03, 147-157.	0.3	10
44	Drop-coated sensing layers on ultra low power hotplates for an RFID flexible tag microlab. Sensors and Actuators B: Chemical, 2010, 144, 462-466.	4.0	22
45	Fabrication of WO ₃ nanodot-based microsensors highly sensitive to hydrogen. Sensors and Actuators B: Chemical, 2010, 149, 352-361.	4.0	71
46	An electronic nose system based on a micro-machined gas sensor array to assess the freshness of sardines. Sensors and Actuators B: Chemical, 2009, 141, 538-543.	4.0	97
47	Gas sensing response of NiO nanoparticle films made by reactive gas deposition. Sensors and Actuators B: Chemical, 2009, 138, 14-20.	4.0	81
48	Carbon nanotubes randomly decorated with gold clusters: from nano ² hybrid atomic structures to gas sensing prototypes. Nanotechnology, 2009, 20, 375501.	1.3	109
49	Three dimensional ultrasound gestural interface. , 2009, , .		4
50	Drift effect of fluctuation enhanced gas sensing on carbon nanotube sensors. Physica Status Solidi (B): Basic Research, 2008, 245, 2343-2346.	0.7	6
51	Fluctuation enhanced gas sensing on functionalized carbon nanotube thin films. Physica Status Solidi (B): Basic Research, 2008, 245, 2339-2342.	0.7	9
52	Novel hybrid materials for gas sensing applications made of metal-decorated MWCNTs dispersed on nano-particle metal oxides. Sensors and Actuators B: Chemical, 2008, 131, 174-182.	4.0	57
53	Novel hexagonal WO ₃ nanopowder with metal decorated carbon nanotubes as NO ₂ gas sensor. Sensors and Actuators B: Chemical, 2008, 133, 151-155.	4.0	89
54	Carbon nanotube@TiO ₂ hybrid films for detecting traces of O ₂ . Nanotechnology, 2008, 19, 375501.	1.3	56

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55	TEM INVESTIGATIONS ON CNT-ADDED HEXAGONAL WO ₃ FILMS FOR SENSING APPLICATIONS. Nano, 2008, 03, 223-227.	0.5	3
56	Improving the performance of functionalized carbon nanotube thin film sensors by fluctuation enhanced sensing. , 2008, , .		1
57	Highly Selective NO ₂ Gas Sensors Made of MWCNTs and WO ₃ Hybrid Layers. Journal of the Electrochemical Society, 2007, 154, J141.	1.3	16
58	New TiO ₂ and Carbon Nanotube Hybrid Microsensors for Detecting Traces of O ₂ in Beverage Grade CO ₂ . , 2007, , .		1
59	Metal-decorated multi-wall carbon nanotubes for low temperature gas sensing. Thin Solid Films, 2007, 515, 8322-8327.	0.8	122
60	Hybrid metal oxide and multiwall carbon nanotube films for low temperature gas sensing. Sensors and Actuators B: Chemical, 2007, 127, 137-142.	4.0	100
61	On the selectivity of nanostructured semiconductor gas sensors. Physica Status Solidi (B): Basic Research, 2007, 244, 4331-4335.	0.7	28
62	Oxygen functionalisation of MWNT and their use as gas sensitive thick-film layers. Sensors and Actuators B: Chemical, 2006, 113, 36-46.	4.0	155
63	WO ₃ films modified with functionalised multi-wall carbon nanotubes: Morphological, compositional and gas response studies. Sensors and Actuators B: Chemical, 2006, 115, 33-41.	4.0	124
64	Regression using fuzzy adaptive resonant theory neural network. Electronics Letters, 2006, 42, 1415.	0.5	1
65	Evaporation of WO ₃ on carbon nanotube films: a new hybrid film. Smart Materials and Structures, 2006, 15, 1555-1560.	1.8	9
66	Ethanol and H ₂ S gas detection in air and in reducing and oxidising ambience: application of pattern recognition to analyse the output from temperature-modulated nanoparticulate WO ₃ gas sensors. Sensors and Actuators B: Chemical, 2005, 104, 124-131.	4.0	36
67	Low-level detection of ethanol and H ₂ S with temperature-modulated WO ₃ nanoparticle gas sensors. Sensors and Actuators B: Chemical, 2005, 104, 132-139.	4.0	139
68	Highly sensitive and selective WO ₃ nanoparticle gas sensor operating in thermally modulated dynamic mode. , 2004, , .		2
69	Temperature-modulated gas sensors: selection of modulating frequencies through noise methods. , 2004, , .		0
70	Dealing with humidity in the qualitative analysis of CO and NO ₂ using a WO ₃ sensor and dynamic signal processing. Sensors and Actuators B: Chemical, 2003, 95, 177-182.	4.0	30
71	Response model for thermally modulated tin oxide-based microhotplate gas sensors. Sensors and Actuators B: Chemical, 2003, 95, 203-211.	4.0	48
72	Quantitative analysis of NO ₂ in the presence of CO using a single tungsten oxide semiconductor sensor and dynamic signal processing Electronic Supplementary Information (ESI) available: NIPALS algorithm, the PLS algorithm for one C variable, backpropagation learning algorithm, RBF network training algorithm, ART1 and Fuzzy ART mathematical models. See http://www.rsc.org/suppdata/an/b2/b205009a/ . Analyst, The, 2002, 127, 1237-1246.	1.7	54

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73	Wavelet transform-based fast feature extraction from temperature modulated semiconductor gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2002, 81, 289-295.	4.0	61
74	Wavelet transform and fuzzy ARTMAP-based pattern recognition for fast gas identification using a micro-hotplate gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2002, 83, 238-244.	4.0	75
75	Gas sensing using CNT-doped WO ₃ . , 0, , .		1
76	Hexagonal WO ₃ Films with Carbon Nanotubes for Sensing Applications. <i>Materials Science Forum</i> , 0, 589, 67-71.	0.3	2