

Exhaled volatile organic compounds in patients with non-small cell lung cancer: a cross-sectional and nested short-term follow-up study

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Citation Report

#	ARTICLE	IF	CITATIONS
1	An off-line breath sampling and analysis method suitable for large screening studies. <i>Physiological Measurement</i> , 2007, 28, 503-514.	1.2	39
2	Bronchoalveolar Lavage in Malignancy. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2007, 28, 534-545.	0.8	62
3	Biomarkers for lung cancer: clinical uses. <i>Current Opinion in Pulmonary Medicine</i> , 2007, 13, 249-255.	1.2	93
4	Diagnosis of lung cancer by the analysis of exhaled breath with a colorimetric sensor array. <i>Thorax</i> , 2007, 62, 565-568.	2.7	266
5	Human exhaled air analytics: biomarkers of diseases. <i>Biomedical Chromatography</i> , 2007, 21, 553-566.	0.8	629
6	Lung cancer detection by proton transfer reaction mass-spectrometric analysis of human breath gas. <i>International Journal of Mass Spectrometry</i> , 2007, 265, 49-59.	0.7	234
7	Breath air analysis and its use as a biomarker in biological monitoring of occupational and environmental exposure to chemical agents. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 853, 1-9.	1.2	70
8	Release of volatile organic compounds (VOCs) from the lung cancer cell line CALU-1 in vitro. <i>Cancer Cell International</i> , 2008, 8, 17.	1.8	163
9	Metabolomics-based methods for early disease diagnostics. <i>Expert Review of Molecular Diagnostics</i> , 2008, 8, 617-633.	1.5	559
10	Analysis of Volatile Organic Compounds in the Exhaled Breath for the Diagnosis of Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2008, 3, 774-780.	0.5	170
11	The analysis of healthy volunteers' exhaled breath by the use of solid-phase microextraction and GC-MS. <i>Journal of Breath Research</i> , 2008, 2, 046006.	1.5	126
12	Development of a protocol to measure volatile organic compounds in human breath: a comparison of rebreathing and on-line single exhalations using proton transfer reaction mass spectrometry. <i>Physiological Measurement</i> , 2008, 29, 309-330.	1.2	60
13	Biomarkers for Lung Cancer. <i>Journal of Lung Cancer</i> , 2009, 8, 67.	0.2	0
14	A review of novel biological tools used in screening for the early detection of lung cancer. <i>Postgraduate Medical Journal</i> , 2009, 85, 358-363.	0.9	55
15	Noninvasive detection of lung cancer by analysis of exhaled breath. <i>BMC Cancer</i> , 2009, 9, 348.	1.1	472
16	Breath gas aldehydes as biomarkers of lung cancer. <i>International Journal of Cancer</i> , 2010, 126, 2663-2670.	2.3	359
17	Exhaled breath analysis: The new interface between medicine and engineering. <i>Advanced Powder Technology</i> , 2009, 20, 420-425.	2.0	51
18	Prototype micro gas chromatograph for breath biomarkers of respiratory disease. , 2009, , .		10

#	ARTICLE	IF	CITATIONS
19	Investigations on the variability of breath gas sampling using PTR-MS. Journal of Breath Research, 2009, 3, 027007.	1.5	36
20	Ion mobility spectrometry for the detection of volatile organic compounds in exhaled breath of patients with lung cancer: results of a pilot study. Thorax, 2009, 64, 744-748.	2.7	218
21	Exhaled biomarkers in lung cancer. European Respiratory Journal, 2009, 34, 261-275.	3.1	226
22	Exhaled breath analysis: Novel approach for early detection of lung cancer. Lung Cancer, 2009, 63, 164-168.	0.9	149
23	Determination of volatile organic compounds in exhaled breath of patients with lung cancer using solid phase microextraction and gas chromatography mass spectrometry. Clinical Chemistry and Laboratory Medicine, 2009, 47, 550-60.	1.4	216
24	CMOS Baseline Tracking and Cancellation Instrumentation for Nanoparticle-Coated Chemiresistors. IEEE Transactions on Biomedical Circuits and Systems, 2009, 3, 267-276.	2.7	13
25	The Future of Cancer Screening. Primary Care - Clinics in Office Practice, 2009, 36, 623-639.	0.7	1
26	Differential ion mobility spectroscopy: non-invasive real-time diagnostics and therapy control in metabolic diseases. European Journal of Medical Research, 2009, 14, 121-5.	0.9	4
27	Human breath analysis: methods for sample collection and reduction of localized background effects. Analytical and Bioanalytical Chemistry, 2010, 396, 739-750.	1.9	71
28	Analysis of exhaled breath for screening of lung cancer patients. Memo - Magazine of European Medical Oncology, 2010, 3, 106-112.	0.3	35
29	Metabolomics: Moving to the Clinic. Journal of NeuroImmune Pharmacology, 2010, 5, 4-17.	2.1	139
30	Differentiation of chronic obstructive pulmonary disease (COPD) including lung cancer from healthy control group by breath analysis using ion mobility spectrometry. International Journal for Ion Mobility Spectrometry, 2010, 13, 131-139.	1.4	59
31	Determination of aldehydes in exhaled breath of patients with lung cancer by means of on-fiber-derivatisation SPME-GC/MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 2643-2651.	1.2	243
32	Experimental setup and analytical methods for the non-invasive determination of volatile organic compounds, formaldehyde and NO in exhaled human breath. Analytica Chimica Acta, 2010, 669, 53-62.	2.6	55
33	Detection of lung, breast, colorectal, and prostate cancers from exhaled breath using a single array of nanosensors. British Journal of Cancer, 2010, 103, 542-551.	2.9	638
34	Oxidative Stress and Exhaled Breath Analysis: A Promising Tool for Detection of Lung Cancer. Cancers, 2010, 2, 32-42.	1.7	13
35	The Screening of Volatile Markers for Hepatocellular Carcinoma. Cancer Epidemiology Biomarkers and Prevention, 2010, 19, 2247-2253.	1.1	71
36	DNA-Coated Nanosensors for Breath Analysis. IEEE Sensors Journal, 2010, 10, 159-166.	2.4	27

#	ARTICLE	IF	CITATIONS
37	Breath biomarkers for personalized medicine. <i>Personalized Medicine</i> , 2010, 7, 643-653.	0.8	15
38	Evaluation of adsorption capacity of single-walled carbon nanotubes for application to micro gas preconcentrators. , 2010, , .		1
39	Early detection and screening of lung cancer. <i>Expert Review of Molecular Diagnostics</i> , 2010, 10, 799-815.	1.5	38
40	Role of nitric oxide and its metabolites as potential markers in lung cancer. <i>Annals of Thoracic Medicine</i> , 2010, 5, 123.	0.7	38
41	Evidence for Cancer Biomarkers in Exhaled Breath. <i>IEEE Sensors Journal</i> , 2010, 10, 185-210.	2.4	65
42	Non-invasive metabolomic analysis of breath using differential mobility spectrometry in patients with chronic obstructive pulmonary disease and healthy smokers. <i>Analyst, The</i> , 2010, 135, 315.	1.7	119
43	Quantitative breath analysis of volatile organic compounds of lung cancer patients. <i>Lung Cancer</i> , 2010, 67, 227-231.	0.9	214
44	An investigation on electronic nose diagnosis of lung cancer. <i>Lung Cancer</i> , 2010, 68, 170-176.	0.9	271
45	Proteomics in detection and monitoring of asthma and smoking-related lung diseases. <i>Expert Review of Proteomics</i> , 2010, 7, 361-372.	1.3	24
46	Breath analysis in asbestos-related disorders: a review of the literature and potential future applications. <i>Journal of Breath Research</i> , 2010, 4, 034001.	1.5	27
47	TD-GC-MS Analysis of Volatile Metabolites of Human Lung Cancer and Normal Cells <i><i>In vitro</i></i> . <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2010, 19, 182-195.	1.1	205
48	Toward Handheld Diagnostics of Cancer Biomarkers in Breath: Micro Preconcentration of Trace Levels of Volatiles in Human Breath. <i>IEEE Sensors Journal</i> , 2011, 11, 2756-2762.	2.4	18
49	The application of statistical methods using VOCs to identify patients with lung cancer. <i>Journal of Breath Research</i> , 2011, 5, 046008.	1.5	124
50	Low pressure drop micro preconcentrators with cobweb Tenax-TA film for analysis of human breath. , 2011, , .		10
51	Advances in Electronic-Nose Technologies Developed for Biomedical Applications. <i>Sensors</i> , 2011, 11, 1105-1176.	2.1	315
52	Lung cancer biomarkers in exhaled breath. <i>Expert Review of Molecular Diagnostics</i> , 2011, 11, 207-217.	1.5	147
53	Influences of mixed expiratory sampling parameters on exhaled volatile organic compound concentrations. <i>Journal of Breath Research</i> , 2011, 5, 016001.	1.5	42
54	Volatile Disease Biomarkers in Breath: A Critique. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1067-1074.	0.9	45

#	ARTICLE	IF	CITATIONS
55	Bronchoscopically Obtained Volatile Biomarkers in Lung Cancer. <i>Lung</i> , 2011, 189, 445-452.	1.4	26
56	Detection of volatile organic compounds (VOCs) in exhaled breath of patients with chronic obstructive pulmonary disease (COPD) by ion mobility spectrometry. <i>International Journal for Ion Mobility Spectrometry</i> , 2011, 14, 7-13.	1.4	43
57	Determination of volatile organic compounds in human breath for <i>Helicobacter pylori</i> detection by SPME-GC/MS. <i>Biomedical Chromatography</i> , 2011, 25, 391-397.	0.8	70
58	Development of a novel micropreconcentrator for micro gas chromatography. , 2011, , .		0
59	Screening and Early Detection of Lung Cancer. <i>Cancer Journal (Sudbury, Mass)</i> , 2011, 17, 3-10.	1.0	46
60	Metabolomics in Toxicology: Preclinical and Clinical Applications. <i>Toxicological Sciences</i> , 2011, 120, S146-S170.	1.4	177
61	Exhaled air molecular profiling in relation to inflammatory subtype and activity in COPD. <i>European Respiratory Journal</i> , 2011, 38, 1301-1309.	3.1	135
62	Analysis of volatile organic compounds (VOCs) in the headspace of NCI-H1666 lung cancer cells. <i>Cancer Biomarkers</i> , 2011, 7, 153-161.	0.8	77
63	Human Biomonitoring of Engineered Nanoparticles: An Appraisal of Critical Issues and Potential Biomarkers. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-12.	1.5	13
64	Human Blood and Plasma Partition Coefficients for C4-C8 n-alkanes, Isoalkanes, and 1-alkenes. <i>International Journal of Toxicology</i> , 2012, 31, 267-275.	0.6	21
65	The analysis of volatile organic compounds biomarkers for lung cancer in exhaled breath, tissues and cell lines. <i>Cancer Biomarkers</i> , 2012, 11, 129-137.	0.8	133
66	Dependence of exhaled breath composition on exogenous factors, smoking habits and exposure to air pollutants. <i>Journal of Breath Research</i> , 2012, 6, 036008.	1.5	147
67	A novel micropreconcentrator employing a laminar flow patterned heater for micro gas chromatography. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 065014.	1.5	16
68	Novel extraction of volatile biomarkers from canine breath for gas chromatography-mass spectrometry. <i>Journal of Breath Research</i> , 2012, 6, 041001.	1.5	3
69	Allergic asthma exhaled breath metabolome: A challenge for comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2012, 1254, 87-97.	1.8	106
70	Exhaled breath volatile organic compound biomarkers in lung cancer. <i>Journal of Breath Research</i> , 2012, 6, 027106.	1.5	52
71	Machine learning methods on exhaled volatile organic compounds for distinguishing COPD patients from healthy controls. <i>Journal of Breath Research</i> , 2012, 6, 036003.	1.5	71
72	Using population physiologically based pharmacokinetic modeling to determine optimal sampling times and to interpret biological exposure markers: The example of occupational exposure to styrene. <i>Toxicology Letters</i> , 2012, 213, 299-304.	0.4	12

#	ARTICLE	IF	CITATIONS
73	Analytical methods based on exhaled breath for early detection of lung cancer. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 38, 13-20.	5.8	15
74	Volatile Organic Compounds of Lung Cancer and Possible Biochemical Pathways. <i>Chemical Reviews</i> , 2012, 112, 5949-5966.	23.0	694
75	Clinical use of exhaled volatile organic compounds in pulmonary diseases: a systematic review. <i>Respiratory Research</i> , 2012, 13, 117.	1.4	184
76	Biomonitoring. , 2012, , 45-62.		0
78	Update on biomarkers for the detection of lung cancer. <i>Lung Cancer: Targets and Therapy</i> , 2012, 3, 21.	1.3	22
79	Analysis of volatile organic compounds released from human lung cancer cells and from the urine of tumor-bearing mice. <i>Cancer Cell International</i> , 2012, 12, 7.	1.8	86
80	Comparison of the Volatile Organic Compounds from Different Biological Specimens for Profiling Potential*. <i>Journal of Forensic Sciences</i> , 2013, 58, 29-39.	0.9	64
81	Discrimination of Lung Cancer Related Volatile Organic Compounds with a Colorimetric Sensor Array. <i>Analytical Letters</i> , 2013, 46, 2048-2059.	1.0	14
82	Molecular biomarkers for future screening of lung cancer. <i>Journal of Surgical Oncology</i> , 2013, 108, 327-333.	0.8	31
83	Release and uptake of volatile organic compounds by human hepatocellular carcinoma cells (HepG2) in vitro. <i>Cancer Cell International</i> , 2013, 13, 72.	1.8	73
84	TD-GC-MS Investigation of the VOCs Released from Blood Plasma of Dogs with Cancer. <i>Diagnostics</i> , 2013, 3, 68-83.	1.3	5
85	A Review of Applications of Metabolomics in Cancer. <i>Metabolites</i> , 2013, 3, 552-574.	1.3	217
86	Lung Cancer Screening: Adjuncts and Alternatives to Low-Dose CT Scans. <i>Current Surgery Reports</i> , 2013, 1, 249-256.	0.4	0
87	Stability of selected volatile breath constituents in Tedlar, Kynar and Flexfilm sampling bags. <i>Analyst</i> , The, 2013, 138, 1405.	1.7	93
88	A nanomaterial-based breath test for short-term follow-up after lung tumor resection. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 15-21.	1.7	112
89	Estudio de compuestos orgánicos volátiles en aire exhalado en una población clínicamente sana: efecto del tabaquismo. <i>Archivos De Bronconeumología</i> , 2013, 49, 457-461.	0.4	24
90	Volatile fingerprints of cancer specific genetic mutations. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 758-766.	1.7	100
91	Volatile Organic Compounds in Exhaled Breath in a Healthy Population: Effect of Tobacco Smoking. <i>Archivos De Bronconeumología</i> , 2013, 49, 457-461.	0.4	24

#	ARTICLE	IF	CITATIONS
92	Blood and breath levels of selected volatile organic compounds in healthy volunteers. <i>Analyst</i> , The, 2013, 138, 2134.	1.7	156
93	Sensors for Exhaled Gas Analysis: An Analytical Review. , 2013, , 264-300.		5
94	Exhaled breath analysis by electronic nose in airways disease. Established issues and key questions. <i>Clinical and Experimental Allergy</i> , 2013, 43, 705-715.	1.4	120
95	Lung cancer biomarkers: State of the art. <i>Journal of Carcinogenesis</i> , 2013, 12, 3.	2.5	71
96	Thinâ€Wall Assembled SnO ₂ Fibers Functionalized by Catalytic Pt Nanoparticles and their Superior Exhaledâ€Breathâ€Sensing Properties for the Diagnosis of Diabetes. <i>Advanced Functional Materials</i> , 2013, 23, 2357-2367.	7.8	328
97	Diagnosing obstructive respiratory diseases using exhaled aerosol fingerprints: A feasibility study. <i>Journal of Aerosol Science</i> , 2013, 64, 24-36.	1.8	23
98	Recent SIFT-MS Studies of Volatile Compounds in Physiology, Medicine and Cell Biology. , 2013, , 48-76.		7
99	Exhaled Breath Analysis in Occupational Medicine. , 2013, , 117-128.		0
100	Breath Tests in Respiratory and Critical Care Medicine: From Research to Practice in Current Perspectives. <i>BioMed Research International</i> , 2013, 2013, 1-20.	0.9	7
101	Breath testing as a method for detecting lung cancer. <i>Expert Review of Anticancer Therapy</i> , 2013, , 1-3.	1.1	0
102	Volatile organic compounds and the potential for a lung cancer breath test. <i>Lung Cancer Management</i> , 2013, 2, 471-482.	1.5	6
103	Profile of volatile organic compounds in exhaled breath changes as a result of gluten-free diet. <i>Journal of Breath Research</i> , 2013, 7, 037104.	1.5	73
104	Quantification of pentane in exhaled breath, a potential biomarker of bowel disease, using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1983-1992.	0.7	62
105	Concentration of exhaled breath condensate biomarkers after fractionated collection based on exhaled CO ₂ signal. <i>Journal of Breath Research</i> , 2013, 7, 017101.	1.5	18
106	Short-Term Intra-Subject Variation in Exhaled Volatile Organic Compounds (VOCs) in COPD Patients and Healthy Controls and Its Effect on Disease Classification. <i>Metabolites</i> , 2014, 4, 300-318.	1.3	28
107	Monitoring of disease-related volatile organic compounds in simulated room air. , 2014, , .		3
108	Cell culture metabolomics in the diagnosis of lung cancerâ€the influence of cell culture conditions. <i>Journal of Breath Research</i> , 2014, 8, 027109.	1.5	38
109	Blood and breath profiles of volatile organic compounds in patients with end-stage renal disease. <i>BMC Nephrology</i> , 2014, 15, 43.	0.8	63

#	ARTICLE	IF	CITATIONS
110	Exhaled Volatile Organic Compounds as Noninvasive Markers in Breast Cancer. , 2014, , 461-481.		1
111	A novel optical chemical sensor based AuNR-MTPP and dyes for lung cancer biomarkers in exhaled breath identification. Sensors and Actuators B: Chemical, 2014, 199, 446-456.	4.0	26
112	Breath testing as a method for detecting lung cancer. Expert Review of Anticancer Therapy, 2014, 14, 121-123.	1.1	20
113	Solid-state gas sensors for breath analysis: A review. Analytica Chimica Acta, 2014, 824, 1-17.	2.6	307
114	Emission rates of selected volatile organic compounds from skin of healthy volunteers. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 959, 62-70.	1.2	123
115	Ultrasensitive and ultrasensitive detection of H ₂ S in highly humid atmosphere using CuO-loaded SnO ₂ hollow spheres for real-time diagnosis of halitosis. Sensors and Actuators B: Chemical, 2014, 194, 371-376.	4.0	164
116	Re-exploring the high-throughput potential of microextraction techniques, SPME and MEPS, as powerful strategies for medical diagnostic purposes. Innovative approaches, recent applications and future trends. Analytical and Bioanalytical Chemistry, 2014, 406, 2101-2122.	1.9	38
117	Assessment, origin, and implementation of breath volatile cancer markers. Chemical Society Reviews, 2014, 43, 1423-1449.	18.7	504
118	Rh-catalyzed WO ₃ with anomalous humidity dependence of gas sensing characteristics. RSC Advances, 2014, 4, 53130-53136.	1.7	79
119	Strengths, Weaknesses, and Opportunities of Diagnostic Breathomics in Pleural Mesothelioma—A Hypothesis. Cancer Epidemiology Biomarkers and Prevention, 2014, 23, 898-908.	1.1	15
120	Taking your breath away: metabolomics breathes life in to personalized medicine. Trends in Biotechnology, 2014, 32, 538-548.	4.9	132
121	Investigation of Gender-Specific Exhaled Breath Volatome in Humans by GCxGC-TOF-MS. Analytical Chemistry, 2014, 86, 1229-1237.	3.2	66
122	Ultrasensitive QRS made by supramolecular assembly of functionalized cyclodextrins and graphene for the detection of lung cancer VOC biomarkers. Journal of Materials Chemistry B, 2014, 2, 6571-6579.	2.9	48
123	Colorimetric artificial nose for identification of breath volatile organic compounds of patients with lung cancer. Chemical Research in Chinese Universities, 2014, 30, 572-577.	1.3	8
124	Assessment of the exhalation kinetics of volatile cancer biomarkers based on their physicochemical properties. Journal of Breath Research, 2014, 8, 016003.	1.5	82
125	Sensitivity Enhancement in the Determination of Volatile Biomarkers in Saliva Using a Mass Spectrometry-Based Electronic Nose with a Programmed Temperature Vaporizer. Analytical Chemistry, 2014, 86, 7890-7898.	3.2	15
126	Detecting cancer by breath volatile organic compound analysis: a review of array-based sensors. Journal of Breath Research, 2014, 8, 027112.	1.5	98
127	Comparative analyses of volatile organic compounds (VOCs) from patients, tumors and transformed cell lines for the validation of lung cancer-derived breath markers. Journal of Breath Research, 2014, 8, 027111.	1.5	120

#	ARTICLE	IF	CITATIONS
128	Evaluation of Bio-VOC Sampler for Analysis of Volatile Organic Compounds in Exhaled Breath. <i>Metabolites</i> , 2014, 4, 879-888.	1.3	26
129	Lack of heritability of exhaled volatile compound pattern: an electronic nose twin study. <i>Journal of Breath Research</i> , 2014, 8, 016001.	1.5	5
130	Tests to assist in the diagnosis of cutaneous melanoma in adults: a generic protocol. <i>The Cochrane Library</i> , 0, , .	1.5	19
131	The lung cancer breath signature: a comparative analysis of exhaled breath and air sampled from inside the lungs. <i>Scientific Reports</i> , 2015, 5, 16491.	1.6	82
132	Breath Analysis as a Potential and Non-Invasive Frontier in Disease Diagnosis: An Overview. <i>Metabolites</i> , 2015, 5, 3-55.	1.3	223
133	Nanoscale Sensor Technologies for Disease Detection via Volatolomics. <i>Small</i> , 2015, 11, 6142-6164.	5.2	159
134	Analysis of exhaled breath fingerprints and volatile organic compounds in COPD. <i>COPD Research and Practice</i> , 2015, 1, .	0.7	33
136	Effects of Curative Colorectal Cancer Surgery on Exhaled Volatile Organic Compounds and Potential Implications in Clinical Follow-up. <i>Annals of Surgery</i> , 2015, 262, 862-867.	2.1	39
137	Current Challenges in Volatile Organic Compounds Analysis as Potential Biomarkers of Cancer. <i>Journal of Biomarkers</i> , 2015, 2015, 1-16.	1.0	124
138	Detection of cancer through exhaled breath: a systematic review. <i>Oncotarget</i> , 2015, 6, 38643-38657.	0.8	145
139	A novel device based on a fluorescent cross-responsive sensor array for detecting lung cancer related volatile organic compounds. <i>Review of Scientific Instruments</i> , 2015, 86, 025106.	0.6	8
140	Exhaled breath analysis in suspected cases of non-small-cell lung cancer: a cross-sectional study. <i>Journal of Breath Research</i> , 2015, 9, 027101.	1.5	42
141	Analysis of Volatile Organic Compounds Liberated and Metabolised by Human Umbilical Vein Endothelial Cells (HUVEC) In Vitro. <i>Cell Biochemistry and Biophysics</i> , 2015, 71, 323-329.	0.9	21
142	Dominant components of the ¹ H nuclear magnetic resonance metabolome characterised by biofluids. <i>Equine Veterinary Journal</i> , 2015, 47, 721-730.	0.9	30
143	Breath carbonyl compounds as biomarkers of lung cancer. <i>Lung Cancer</i> , 2015, 90, 92-97.	0.9	49
144	Detection limits of organic compounds achievable with intense, short-pulse lasers. <i>Analyst</i> , The, 2015, 140, 4270-4276.	1.7	5
145	Development of a method for metabolomic analysis of human exhaled breath condensate by gas chromatography-mass spectrometry in high resolution mode. <i>Analytica Chimica Acta</i> , 2015, 887, 118-126.	2.6	32
146	Canine Olfaction and Electronic Nose Detection of Volatile Organic Compounds in the Detection of Cancer: A Review. <i>Cancer Investigation</i> , 2015, 33, 411-419.	0.6	43

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147	The possibility of inventing new technologies in the detection of cancer by applying elements of the canine olfactory apparatus. <i>Medical Hypotheses</i> , 2015, 85, 160-172.	0.8	18
148	Investigation of cell culture volatilomes using solid phase micro extraction: Options and pitfalls exemplified with adenocarcinoma cell lines. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1006, 158-166.	1.2	28
149	Screening of patients with bronchopulmonary diseases using methods of infrared laser photoacoustic spectroscopy and principal component analysis. <i>Journal of Biomedical Optics</i> , 2015, 20, 065001.	1.4	22
150	Detection of Lung Cancer Bio-markers in Human Breath Using a Micro-fabricated Air Analyzer. <i>Materials Today: Proceedings</i> , 2015, 2, 4664-4670.	0.9	2
151	Detection of Gaseous Compounds by Needle Trap Sampling and Direct Thermal-Desorption Photoionization Mass Spectrometry: Concept and Demonstrative Application to Breath Gas Analysis. <i>Analytical Chemistry</i> , 2015, 87, 1773-1781.	3.2	30
152	Breath sensors for lung cancer diagnosis. <i>Biosensors and Bioelectronics</i> , 2015, 65, 121-138.	5.3	137
153	The scent of human diseases: a review on specific volatile organic compounds as diagnostic biomarkers. <i>Flavour and Fragrance Journal</i> , 2015, 30, 5-25.	1.2	92
154	Using a chemiresistor-based alkane sensor to distinguish exhaled breaths of lung cancer patients from subjects with no lung cancer. <i>Journal of Thoracic Disease</i> , 2016, 8, 2772-2783.	0.6	21
155	Identification of Serum Peptidome Signatures of Non-Small Cell Lung Cancer. <i>International Journal of Molecular Sciences</i> , 2016, 17, 410.	1.8	21
156	Development of an Exhaled Breath Monitoring System with Semiconductive Gas Sensors, a Gas Condenser Unit, and Gas Chromatograph Columns. <i>Sensors</i> , 2016, 16, 1891.	2.1	54
157	A Compendium of Volatile Organic Compounds (VOCs) Released By Human Cell Lines. <i>Current Medicinal Chemistry</i> , 2016, 23, 2112-2131.	1.2	87
158	Electronic Noses for Well-Being: Breath Analysis and Energy Expenditure. <i>Sensors</i> , 2016, 16, 947.	2.1	24
159	Analysis of volatile organic compounds in pleural effusions by headspace solid-phase microextraction coupled with cryotrap gas chromatography and mass spectrometry. <i>Journal of Separation Science</i> , 2016, 39, 2544-2552.	1.3	10
160	Volatile organic compound markers of psychological stress in skin: a pilot study. <i>Journal of Breath Research</i> , 2016, 10, 046012.	1.5	27
161	Non-invasive toluene sensor for early diagnosis of lung cancer. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
162	VOC breath biomarkers in lung cancer. <i>Clinica Chimica Acta</i> , 2016, 459, 5-9.	0.5	200
163	Investigation of biomarkers for discriminating breast cancer cell lines from normal mammary cell lines based on VOCs analysis and metabolomics. <i>RSC Advances</i> , 2016, 6, 41816-41824.	1.7	16
164	A Study on VOCs Released by Lung Cancer Cell Line Using GCMS-SPME. <i>Procedia Chemistry</i> , 2016, 20, 1-7.	0.7	5

#	ARTICLE	IF	CITATIONS
165	Significance of Exhaled Breath Test in Clinical Diagnosis: A Special Focus on the Detection of Diabetes Mellitus. <i>Journal of Medical and Biological Engineering</i> , 2016, 36, 605-624.	1.0	110
166	Volatile organic compounds in breath as markers for irritable bowel syndrome: a metabolomic approach. <i>Alimentary Pharmacology and Therapeutics</i> , 2016, 44, 45-56.	1.9	39
167	Comparison of volatile organic compounds from lung cancer patients and healthy controls—challenges and limitations of an observational study. <i>Journal of Breath Research</i> , 2016, 10, 046007.	1.5	87
168	Exhaled Breath Analysis for Lung Cancer. <i>Journal of the Japan Society for Precision Engineering</i> , 2016, 82, 718-721.	0.0	1
169	The oxidizing effect of humidity on WO ₃ based sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 54-58.	4.0	92
170	Highly Selective Sensing of CO, C ₆ H ₆ , and C ₇ H ₈ Gases by Catalytic Functionalization with Metal Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7173-7183.	4.0	75
171	Volatile signature for the early diagnosis of lung cancer. <i>Journal of Breath Research</i> , 2016, 10, 016007.	1.5	108
172	Detection of volatile organic compounds (VOCs) from exhaled breath as noninvasive methods for cancer diagnosis. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2759-2780.	1.9	134
173	Spray layer-by-layer assembly of POSS functionalized CNT quantum chemo-resistive sensors with tuneable selectivity and ppm resolution to VOC biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 362-373.	4.0	42
174	Electronic Nose Technology in Respiratory Diseases. <i>Lung</i> , 2017, 195, 157-165.	1.4	125
175	Observation of nonanoic acid and aldehydes in exhaled breath of patients with lung cancer. <i>Journal of Breath Research</i> , 2017, 11, 026004.	1.5	36
176	Direct human breath analysis by secondary nano-electrospray ionization ultrahigh-resolution mass spectrometry: Importance of high mass resolution and mass accuracy. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 301-308.	0.7	21
177	Determination of volatile organic compounds exhaled by cell lines derived from hematological malignancies. <i>Bioscience Reports</i> , 2017, 37, .	1.1	17
178	Detection of lung cancer in exhaled breath with an electronic nose using support vector machine analysis. <i>Journal of Breath Research</i> , 2017, 11, 036009.	1.5	56
179	Lung Cancer Screening Based on Type-different Sensor Arrays. <i>Scientific Reports</i> , 2017, 7, 1969.	1.6	65
180	Breath mass ion biomarkers of breast cancer. <i>Journal of Breath Research</i> , 2017, 11, 016004.	1.5	15
181	Exhaled breath analysis: a review of “breath-taking”™ methods for off-line analysis. <i>Metabolomics</i> , 2017, 13, 110.	1.4	178
182	Review of recent developments in determining volatile organic compounds in exhaled breath as biomarkers for lung cancer diagnosis. <i>Analytica Chimica Acta</i> , 2017, 996, 1-9.	2.6	90

#	ARTICLE	IF	CITATIONS
184	Porphyrins for olfaction mimic: The Rome Tor Vergata approach. Journal of Porphyrins and Phthalocyanines, 2017, 21, 769-781.	0.4	15
185	Dimerization Products of Chloroprene are Background Contaminants Emitted from ALTEF (Polyvinylidene Difluoride) Gas Sampling Bags. Analytical Sciences, 2017, 33, 147-152.	0.8	3
186	Association of Smoking with Metabolic Volatile Organic Compounds in Exhaled Breath. International Journal of Molecular Sciences, 2017, 18, 2235.	1.8	16
187	Photoacoustic Spectroscopy for the Determination of Lung Cancer Biomarkersâ€”A Preliminary Investigation. Sensors, 2017, 17, 210.	2.1	17
188	Selective Detection of Target Volatile Organic Compounds in Contaminated Humid Air Using a Sensor Array with Principal Component Analysis. Sensors, 2017, 17, 1662.	2.1	36
189	Exhaled breath analysis for the early detection of lung cancer: recent developments and future prospects. Lung Cancer: Targets and Therapy, 2017, Volume 8, 31-38.	1.3	55
190	A Prediction Model with a Combination of Variables for Diagnosis of Lung Cancer. Medical Science Monitor, 2017, 23, 5620-5629.	0.5	17
191	Endogenous volatile organic compounds in acute myeloid leukemia: origins and potential clinical applications. Journal of Breath Research, 2018, 12, 034002.	1.5	10
192	Evolution of clinical and environmental health applications of exhaled breath research: Review of methods and instrumentation for gas-phase, condensate, and aerosols. Analytica Chimica Acta, 2018, 1024, 18-38.	2.6	77
193	Breathprinting and Early Diagnosis of Lung Cancer. Journal of Thoracic Oncology, 2018, 13, 883-894.	0.5	36
194	Solid-phase microextraction of volatile organic compounds in headspace of PM-induced MRC-5 cell lines. Talanta, 2018, 185, 23-29.	2.9	7
195	Hand-Held Volatilome Analyzer Based on Elastically Deformable Nanofibers. Analytical Chemistry, 2018, 90, 5122-5129.	3.2	15
196	A colorimetric detector for lung cancer related volatile organic compounds based on cross-response mechanism. Sensors and Actuators B: Chemical, 2018, 256, 543-552.	4.0	29
197	Preclinical Biomarkers for the Early Detection of Lung Cancer. , 2018, , 59-68.e4.		2
199	The necessity of external validation in exhaled breath research: a case study of sarcoidosis. Journal of Breath Research, 2018, 12, 016004.	1.5	12
200	Analysis of volatile organic compounds in exhaled breath for lung cancer diagnosis using a sensor system. Sensors and Actuators B: Chemical, 2018, 255, 800-807.	4.0	111
201	Detection and quantification of lung cancer biomarkers by a micro-analytical device using a single metal oxide-based gas sensor. Sensors and Actuators B: Chemical, 2018, 255, 391-400.	4.0	63
202	Ppt-level benzene detection and gas sensing mechanism using $C_{4}H_{9}NH_{3}^{2+}Pb_{2}Br_{2}$ inorganic layered perovskite. Inorganic Chemistry Frontiers, 2018, 5, 3046-3052.	3.0	24

#	ARTICLE	IF	CITATIONS
203	The Electronic Nose's Emerging Role in Respiratory Medicine. <i>Sensors</i> , 2018, 18, 3029.	2.1	15
204	Analysis of exhaled air for early-stage diagnosis of lung cancer: opportunities and challenges. <i>Russian Chemical Reviews</i> , 2018, 87, 904-921.	2.5	17
205	Enhanced sensing properties of SnO ₂ nanofibers with a novel structure by carbonization. <i>Sensors and Actuators B: Chemical</i> , 2018, 271, 44-53.	4.0	30
206	Room Temperature, Multiphasic Detection of Explosives, and Volatile Organic Compounds Using Thermodiffusion Driven Soret Colloids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9470-9479.	3.2	20
207	Detection of Lung Cancer: Concomitant Volatile Organic Compounds and Metabolomic Profiling of Six Cancer Cell Lines of Different Histological Origins. <i>ACS Omega</i> , 2018, 3, 5131-5140.	1.6	56
208	Exploring the potential of needle trap microextraction combined with chromatographic and statistical data to discriminate different types of cancer based on urinary volatile biosignature. <i>Analytica Chimica Acta</i> , 2018, 1023, 53-63.	2.6	42
209	Detection of volatile organic compounds in exhaled breath to screen lung cancer: a systematic review. <i>Future Oncology</i> , 2018, 14, 1647-1662.	1.1	23
210	Gas sensing behavior of metal-phthalocyanines: Effects of electronic structure on sensitivity. <i>Chemical Physics</i> , 2018, 513, 23-34.	0.9	31
211	<i>Ex vivo</i> emission of volatile organic compounds from gastric cancer and non-cancerous tissue. <i>Journal of Breath Research</i> , 2018, 12, 046005.	1.5	34
212	The volatilome – investigation of volatile organic metabolites (VOM) as potential tumor markers in patients with head and neck squamous cell carcinoma (HNSCC). <i>Journal of Otolaryngology - Head and Neck Surgery</i> , 2018, 47, 42.	0.9	37
213	Characterization of trotter horses urine metabolome by means of proton nuclear magnetic resonance spectroscopy. <i>Metabolomics</i> , 2018, 14, 106.	1.4	16
214	Transient Response to Acetone Gas Using the Interlocking p+n Field-Effect Transistor Circuit. <i>Sensors</i> , 2018, 18, 1914.	2.1	9
215	A study on volatile organic compounds emitted by in-vitro lung cancer cultured cells using gas sensor array and SPME-GCMS. <i>BMC Cancer</i> , 2018, 18, 362.	1.1	55
216	Confounding effect of benign pulmonary diseases in selecting volatile organic compounds as markers of lung cancer. <i>Journal of Breath Research</i> , 2018, 12, 046013.	1.5	25
217	Accuracy and Methodologic Challenges of Volatile Organic Compound-Based Exhaled Breath Tests for Cancer Diagnosis. <i>JAMA Oncology</i> , 2019, 5, e182815.	3.4	137
218	Ultrafast gas chromatography coupled to electronic nose to identify volatile biomarkers in exhaled breath from chronic obstructive pulmonary disease patients: A pilot study. <i>Biomedical Chromatography</i> , 2019, 33, e4684.	0.8	27
219	Exhaled breath condensate biomarkers for lung cancer. <i>Journal of Breath Research</i> , 2019, 13, 044002.	1.5	41
220	Optimization of the Conditions of Analysis of Exhaled Air by Gas Chromatography-Mass Spectrometry for the Noninvasive Diagnostics of Lung Cancer. <i>Journal of Analytical Chemistry</i> , 2019, 74, 1148-1158.	0.4	1

#	ARTICLE	IF	CITATIONS
221	Disease Detection with Molecular Biomarkers: From Chemistry of Body Fluids to Nature-Inspired Chemical Sensors. <i>Chemical Reviews</i> , 2019, 119, 11761-11817.	23.0	269
222	Functionalized graphene-based chemiresistive electronic nose for discrimination of disease-related volatile organic compounds. <i>Biosensors and Bioelectronics: X</i> , 2019, 1, 100016.	0.9	28
223	Evaluation of the Possibility of Volatile Organic Compounds Determination in Exhaled Air by Gas Chromatography for the Noninvasive Diagnostics of Lung Cancer. <i>Journal of Analytical Chemistry</i> , 2019, 74, 472-479.	0.4	8
224	Volatome pattern of breast cancer and cancer-free tissues as a powerful strategy to identify potential biomarkers. <i>Analyst</i> , 2019, 144, 4153-4161.	1.7	19
225	Implementing a central composite design for the optimization of solid phase microextraction to establish the urinary volatome expression: a first approach for breast cancer. <i>Metabolomics</i> , 2019, 15, 64.	1.4	24
226	The potential of breath analysis to improve outcome for patients with lung cancer. <i>Journal of Breath Research</i> , 2019, 13, 034002.	1.5	31
227	Critical Review of Volatile Organic Compound Analysis in Breath and In Vitro Cell Culture for Detection of Lung Cancer. <i>Metabolites</i> , 2019, 9, 52.	1.3	112
228	Potential of Metabolomics to Breath Tests. , 2019, , 69-81.		1
229	A review of exhaled breath: a key role in lung cancer diagnosis. <i>Journal of Breath Research</i> , 2019, 13, 034001.	1.5	56
230	Analysis of volatile organic compounds released from SW480 colorectal cancer cells and the blood of tumor-bearing mice. <i>Translational Cancer Research</i> , 2019, 8, 2736-2751.	0.4	9
231	Positive matrix factorization: A data preprocessing strategy for direct mass spectrometry-based breath analysis. <i>Talanta</i> , 2019, 192, 32-39.	2.9	4
232	Breath analysis in respiratory diseases: state-of-the-art and future perspectives. <i>Expert Review of Molecular Diagnostics</i> , 2019, 19, 47-61.	1.5	18
233	Physisorption induced p-xylene gas-sensing performance of (C ₄ H ₉ NH ₃) ₂ PbI ₄ layered perovskite. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 659-664.	4.0	33
234	Electronic nose: a non-invasive technology for breath analysis of diabetes and lung cancer patients. <i>Journal of Breath Research</i> , 2019, 13, 024001.	1.5	111
235	e-Nose Technology: The State of the Art on Lung Cancer Diagnosis. , 2019, , 121-129.		4
236	Metabolomics of lung cancer: Analytical platforms and their applications. <i>Journal of Separation Science</i> , 2020, 43, 120-133.	1.3	31
237	High sensitive gas sensor based on vertical graphene field effect transistor. <i>Nanotechnology</i> , 2020, 31, 165503.	1.3	16
238	Target Analysis of Volatile Organic Compounds in Exhaled Breath for Lung Cancer Discrimination from Other Pulmonary Diseases and Healthy Persons. <i>Metabolites</i> , 2020, 10, 317.	1.3	59

#	ARTICLE	IF	CITATIONS
239	Investigation of different approaches for exhaled breath and tumor tissue analyses to identify lung cancer biomarkers. <i>Heliyon</i> , 2020, 6, e04224.	1.4	24
240	Doped SnO ₂ Nanomaterials for E-Nose Based Electrochemical Sensing of Biomarkers of Lung Cancer. <i>ACS Omega</i> , 2020, 5, 27645-27654.	1.6	28
241	Influence of Chronic Obstructive Pulmonary Disease on Volatile Organic Compounds in Patients with Non-Small Cell Lung Cancer. <i>Archivos De Bronconeumologia</i> , 2020, 56, 801-805.	0.4	6
242	Multidimensional gas chromatography for environmental exposure measurement. , 2020, , 209-229.		0
243	Non-invasive cancer detection using volatile biomarkers: Is urine superior to breath?. <i>Medical Hypotheses</i> , 2020, 143, 110060.	0.8	20
244	Metal-phthalocyanine modified doped polyaniline for VOC sensing applications. <i>Flexible and Printed Electronics</i> , 2020, 5, 014014.	1.5	17
245	Exhaled Breath Analysis in Diagnosis of Malignant Pleural Mesothelioma: Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1110.	1.2	18
246	Exhaled volatile organic compounds analysis in clinical pediatrics: a systematic review. <i>Pediatric Research</i> , 2021, 89, 1352-1363.	1.1	19
247	Systematic review of exhaled breath VOCs analysis and detection component for human diseases. <i>Indoor Environment</i> , 2021, 24, 19-31.	0.0	1
248	Discriminant Profiles of Volatile Compounds in the Alveolar Air of Patients with Squamous Cell Lung Cancer, Lung Adenocarcinoma or Colon Cancer. <i>Molecules</i> , 2021, 26, 550.	1.7	9
249	A comprehensive survey on investigation techniques of exhaled breath (EB) for diagnosis of diseases in human body. <i>Informatics in Medicine Unlocked</i> , 2021, 26, 100715.	1.9	40
250	Breathomics: Review of Sample Collection and Analysis, Data Modeling and Clinical Applications. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 1461-1487.	1.8	30
251	Needle Trap Device-GC-MS for Characterization of Lung Diseases Based on Breath VOC Profiles. <i>Molecules</i> , 2021, 26, 1789.	1.7	23
252	Exploring Volatile Organic Compounds in Breath for High-Accuracy Prediction of Lung Cancer. <i>Cancers</i> , 2021, 13, 1431.	1.7	34
253	Breath profile as composite biomarkers for lung cancer diagnosis. <i>Lung Cancer</i> , 2021, 154, 206-213.	0.9	19
254	Calculated indices of volatile organic compounds (VOCs) in exhalation for lung cancer screening and early detection. <i>Lung Cancer</i> , 2021, 154, 197-205.	0.9	33
255	Metabolomics in cancer research and emerging applications in clinical oncology. <i>Ca-A Cancer Journal for Clinicians</i> , 2021, 71, 333-358.	157.7	267
256	Modular Breath Analyzer (MBA): Introduction of a Breath Analyzer Platform Based on an Innovative and Unique, Modular eNose Concept for Breath Diagnostics and Utilization of Calibration Transfer Methods in Breath Analysis Studies. <i>Molecules</i> , 2021, 26, 3776.	1.7	4

#	ARTICLE	IF	CITATIONS
257	Deciphering Exhaled Aerosol Fingerprints for Early Diagnosis and Personalized Therapeutics of Obstructive Respiratory Diseases in Small Airways. <i>Journal of Nanotheranostics</i> , 2021, 2, 94-117.	1.7	5
258	Profiles of Volatile Biomarkers Detect Tuberculosis from Skin. <i>Advanced Science</i> , 2021, 8, e2100235.	5.6	31
259	Application of chemoresistive gas sensors and chemometric analysis to differentiate the fingerprints of global volatile organic compounds from diseases. Preliminary results of COPD, lung cancer and breast cancer. <i>Clinica Chimica Acta</i> , 2021, 518, 83-92.	0.5	25
260	Assessing the feasibility and acceptability of online measurements of exhaled volatile organic compounds (VOCs) in children with preschool wheeze: a pilot study. <i>BMJ Paediatrics Open</i> , 2021, 5, e001003.	0.6	2
261	Deficiency and absence of endogenous isoprene in adults, disqualified its putative origin. <i>Heliyon</i> , 2021, 7, e05922.	1.4	30
263	Volatile organic compound breath testing detects in-situ squamous cell carcinoma of bronchial and laryngeal regions and shows distinct profiles of each tumour. <i>Journal of Breath Research</i> , 2020, 14, 046013.	1.5	10
264	Co-liquefaction with acetone and GC analysis of volatile compounds in exhaled breath as lung cancer biomarkers. <i>BiolImpacts</i> , 2017, 7, 99-108.	0.7	10
265	Smell, Lung Cancer, Electronic Nose and Trained Dogs. <i>Journal of Lung, Pulmonary & Respiratory Research</i> , 2014, 1, 47-49.	0.3	2
266	Micro Gas Preconcentrator Made of a Film of Single-Walled Carbon Nanotubes. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010, 130, 207-211.	0.0	14
267	Electronic-nose Applications in Forensic Science and for Analysis of Volatile Biomarkers in the Human Breath. <i>Journal of Forensic Science & Criminology</i> , 2014, 1, .	0.0	9
268	Metabolomics and the Diagnosis of Human Diseases -A Guide to the Markers and Pathophysiological Pathways Affected. <i>Current Medicinal Chemistry</i> , 2014, 21, 823-848.	1.2	52
269	Non-invasive Biodiversified Sensors: A Modernized Screening Technology for Cancer. <i>Current Pharmaceutical Design</i> , 2019, 25, 4108-4120.	0.9	11
270	Exhaled Volatile Organic Compounds Precedes Pulmonary Injury in a Swine Pulmonary Oxygen Toxicity Model. <i>Frontiers in Physiology</i> , 2019, 10, 1297.	1.3	7
271	Exhaled breath analysis for lung cancer. <i>Journal of Thoracic Disease</i> , 2013, 5 Suppl 5, S540-50.	0.6	68
272	Breath volatile organic compound analysis: an emerging method for gastric cancer detection. <i>Journal of Breath Research</i> , 2021, 15, 044002.	1.5	16
273	Expression of MAGE A 1-6 and SSX 1-9 Genes in the Sputum and Cancer Tissue of the Lung Cancer Patients. <i>Tuberculosis and Respiratory Diseases</i> , 2011, 70, 315.	0.7	1
274	PPROMEDIA – Database of Chemical Substances the Potential Biomarkers of Diseases with the Meaning in Noninvasive Diagnostics. <i>Mathematical Biology and Bioinformatics</i> , 2011, 6, 250-263.	0.1	0
275	Advances in Noninvasive Screening for Early Lung Cancer. <i>Medical Diagnosis</i> , 2018, 08, 23-28.	0.0	0

#	ARTICLE	IF	CITATIONS
276	Breathomics for Lung Cancer Diagnosis. , 2020, , 209-243.		1
277	Odors and cancer: Current status and future directions. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2022, 1877, 188644.	3.3	27
278	METHODS FOR EARLY DETECTION OF LUNG CANCER (REVIEW). <i>Siberian Journal of Oncology</i> , 2020, 19, 112-122.	0.1	8
279	Exhaled breath analysis: from occupational to respiratory medicine. <i>Acta Biomedica</i> , 2005, 76 Suppl 2, 20-9.	0.2	13
280	Recent developments in human biomonitoring: non-invasive assessment of target tissue dose and effects of pneumotoxic metals. <i>Medicina Del Lavoro</i> , 2006, 97, 199-206.	0.3	22
282	Early diagnosis and screening in lung cancer. <i>American Journal of Cancer Research</i> , 2020, 10, 1993-2009.	1.4	5
283	Immunological and genetic indices in workers under long-term exposure to low-doses of acrylonitrile. <i>Gigiena I Sanitariia</i> , 2021, 100, 1115-1122.	0.1	2
284	Statistical Analysis for Selective Identifications of VOCs by Using Surface Functionalized MoS ₂ Based Sensor Array. , 2021, 5, .		1
285	The influence of host genetics on liver microbiome composition in patients with NAFLD. <i>EBioMedicine</i> , 2022, 76, 103858.	2.7	13
286	Selective monitoring of breath isoprene by a portable detector during exercise and at rest. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131444.	4.0	10
287	Breath Analysis: A Promising Tool for Disease Diagnosisâ€”The Role of Sensors. <i>Sensors</i> , 2022, 22, 1238.	2.1	41
288	Volatile compounds in human breath: critical review and meta-analysis. <i>Journal of Breath Research</i> , 2022, 16, 024001.	1.5	37
289	Ordered Large-Pore Mesoporous ZnCr ₂ O ₄ with Ultrathin Crystalline Frameworks for Highly Sensitive and Selective Detection of Ppb-Level P-Xylene. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
290	Highly Selective and Sensitive Detection of Breath Isoprene by Tailored Gas Reforming: A Synergistic Combination of Macroporous WO ₃ Spheres and Au Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11587-11596.	4.0	9
291	Exhaled volatile organic compounds for diagnosis of hepatocellular carcinoma. <i>Scientific Reports</i> , 2022, 12, 5326.	1.6	17
292	Exhaled metabolic markers and relevant dysregulated pathways of lung cancer: a pilot study. <i>Annals of Medicine</i> , 2022, 54, 790-802.	1.5	9
293	Smartphone-Based Platforms for Clinical Detections in Lung-Cancer-Related Exhaled Breath Biomarkers: A Review. <i>Biosensors</i> , 2022, 12, 223.	2.3	8
294	Designing oxide chemiresistors for detecting volatile aromatic compounds: recent progresses and future perspectives. <i>Chemical Communications</i> , 2022, 58, 5439-5454.	2.2	26

#	ARTICLE	IF	CITATIONS
296	Ordered large-pore mesoporous ZnCr ₂ O ₄ with ultrathin crystalline frameworks for highly sensitive and selective detection of ppb-level p-xylene. <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131964.	4.0	5
297	Exhaled Breath Volatile Organic Compound Analysis for the Detection of Lung Cancer- A Systematic Review. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 0, 56, 17-35.	0.5	6
299	Urine and Fecal ¹ H-NMR Metabolomes Differ Significantly between Pre-Term and Full-Term Born Physically Fit Healthy Adult Males. <i>Metabolites</i> , 2022, 12, 536.	1.3	2
300	A concise review on potential cancer biomarkers and advanced manufacturing of smart platform-based biosensors for early-stage cancer diagnostics. <i>Biosensors and Bioelectronics: X</i> , 2022, 11, 100178.	0.9	3
301	Volatolomics in healthcare and its advanced detection technology. <i>Nano Research</i> , 2022, 15, 8185-8213.	5.8	30
302	Volatile Organic Compounds in Exhaled Breath as Biomarkers of Lung Cancer: Advances and Potential Problems. <i>Journal of Analytical Chemistry</i> , 2022, 77, 785-810.	0.4	6
303	Variation of volatile organic compound levels within ambient room air and its impact upon the standardisation of breath sampling. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
304	The Use of Breath Analysis in the Management of Lung Cancer: Is It Ready for Primetime?. <i>Current Oncology</i> , 2022, 29, 7355-7378.	0.9	7
305	Building a Sensor Benchmark for E-Nose Based Lung Cancer Detection: Methodological Considerations. <i>Chemosensors</i> , 2022, 10, 444.	1.8	3
306	Multidimensional Chromatography and Its Applications in Food Products, Biological Samples and Toxin Products: A Comprehensive Review. <i>Separations</i> , 2022, 9, 326.	1.1	5
307	Use of surgical masks for sampling in the determination of volatile organic compounds. <i>Talanta</i> , 2023, 253, 124105.	2.9	2
308	Direct detection of acetonitrile at the pptv level with photoinduced associative ionization time-of-flight mass spectrometry. <i>Analytical Methods</i> , 2023, 15, 368-376.	1.3	1
309	Comparative Analysis of Pre- and Post-Surgery Exhaled Breath Profiles of Volatile Organic Compounds of Patients with Lung Cancer and Benign Tumors. <i>Journal of Analytical Chemistry</i> , 2022, 77, 1547-1552.	0.4	0
310	Pt nanoparticle decoration on femtosecond laser-irradiated SnO ₂ nanowires for enhancing C ₇ H ₈ gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2023, 379, 133279.	4.0	4
311	Highly Sensitive and Selective Real-Time Breath Isoprene Detection using the Gas Reforming Reaction of MOF-Derived Nanoreactors. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 7102-7111.	4.0	9
312	Discrimination of volatile organic compounds using a sensor array via a rapid method based on linear discriminant analysis. <i>Sensors and Actuators B: Chemical</i> , 2023, 387, 133803.	4.0	2
313	Smelling the Disease: Diagnostic Potential of Breath Analysis. <i>Molecular Diagnosis and Therapy</i> , 2023, 27, 321-347.	1.6	19
314	Exhaled Biomarkers for Point-of-Care Diagnosis: Recent Advances and New Challenges in Breathomics. <i>Micromachines</i> , 2023, 14, 391.	1.4	8

#	ARTICLE	IF	CITATIONS
315	A review on isoprene in human breath. <i>Journal of Breath Research</i> , 2023, 17, 037101.	1.5	14
316	A Systematic Review and Meta-Analysis: Volatile Organic Compound Analysis in the Detection of Hepatobiliary and Pancreatic Cancers. <i>Cancers</i> , 2023, 15, 2308.	1.7	3