

Jochen K Schubert

List of Publications by Citations

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

97
papers

6,246
citations

39
h-index

78
g-index

104
ext. papers

6,991
ext. citations

4.1
avg, IF

5.51
L-index

#	Paper	IF	Citations
97	Diagnostic potential of breath analysis--focus on volatile organic compounds. <i>Clinica Chimica Acta</i> , 2004 , 347, 25-39	6.2	736
96	Volume-dependent compliance and ventilation-perfusion mismatch in surfactant-depleted isolated rabbit lungs. <i>Critical Care Medicine</i> , 2001 , 29, 144-51	1.4	563
95	Noninvasive detection of lung cancer by analysis of exhaled breath. <i>BMC Cancer</i> , 2009 , 9, 348	4.8	389
94	The human volatilome: volatile organic compounds (VOCs) in exhaled breath, skin emanations, urine, feces and saliva. <i>Journal of Breath Research</i> , 2014 , 8, 034001	3.1	336
93	Breath gas aldehydes as biomarkers of lung cancer. <i>International Journal of Cancer</i> , 2010 , 126, 2663-70	7.5	258
92	Isoprene and acetone concentration profiles during exercise on an ergometer. <i>Journal of Breath Research</i> , 2009 , 3, 027006	3.1	206
91	Determination of volatile organic compounds in exhaled breath of patients with lung cancer using solid phase microextraction and gas chromatography mass spectrometry. <i>Clinical Chemistry and Laboratory Medicine</i> , 2009 , 47, 550-60	5.9	178
90	TD-GC-MS analysis of volatile metabolites of human lung cancer and normal cells in vitro. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2010 , 19, 182-95	4	172
89	Breath biomarkers for lung cancer detection and assessment of smoking related effects--confounding variables, influence of normalization and statistical algorithms. <i>Clinica Chimica Acta</i> , 2010 , 411, 1637-44	6.2	157
88	Release of volatile organic compounds (VOCs) from the lung cancer cell line CALU-1 in vitro. <i>Cancer Cell International</i> , 2008 , 8, 17	6.4	146
87	Automated needle trap heart-cut GC/MS and needle trap comprehensive two-dimensional GC/TOF-MS for breath gas analysis in the clinical environment. <i>Analytical Chemistry</i> , 2010 , 82, 2541-51	7.8	119
86	Analysis of exhaled breath for disease detection. <i>Annual Review of Analytical Chemistry</i> , 2014 , 7, 455-82	12.5	117
85	Assessment of propofol concentrations in human breath and blood by means of HS-SPME-GC-MS. <i>Clinica Chimica Acta</i> , 2008 , 395, 32-7	6.2	109
84	Impact of sampling procedures on the results of breath analysis. <i>Journal of Breath Research</i> , 2008 , 2, 026007	3.1	109
83	Release of volatile organic compounds from the lung cancer cell line NCI-H2087 in vitro. <i>Anticancer Research</i> , 2009 , 29, 419-26	2.3	103
82	Breath isoprene--aspects of normal physiology related to age, gender and cholesterol profile as determined in a proton transfer reaction mass spectrometry study. <i>Clinical Chemistry and Laboratory Medicine</i> , 2008 , 46, 1011-8	5.9	101
81	From highly sophisticated analytical techniques to life-saving diagnostics: Technical developments in breath analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 665-673	14.6	98

80	Multibed needle trap devices for on site sampling and preconcentration of volatile breath biomarkers. <i>Analytical Chemistry</i> , 2009 , 81, 5851-7	7.8	93
79	Continuous real time breath gas monitoring in the clinical environment by proton-transfer-reaction-time-of-flight-mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 10321-9	7.8	88
78	CO(2)-controlled sampling of alveolar gas in mechanically ventilated patients. <i>Journal of Applied Physiology</i> , 2001 , 90, 486-92	3.7	88
77	Breath acetone-aspects of normal physiology related to age and gender as determined in a PTR-MS study. <i>Journal of Breath Research</i> , 2009 , 3, 027003	3.1	87
76	Analysis of Volatile Disease Markers in Blood. <i>Clinical Chemistry</i> , 2001 , 47, 1053-1060	5.5	87
75	Impact of inspired substance concentrations on the results of breath analysis in mechanically ventilated patients. <i>Biomarkers</i> , 2005 , 10, 138-52	2.6	85
74	Needle trap micro-extraction for VOC analysis: effects of packing materials and desorption parameters. <i>Journal of Chromatography A</i> , 2012 , 1219, 29-38	4.5	84
73	Application of a new method for analysis of exhaled gas in critically ill patients. <i>Intensive Care Medicine</i> , 1998 , 24, 415-21	14.5	81
72	Breath analysis in critically ill patients: potential and limitations. <i>Expert Review of Molecular Diagnostics</i> , 2004 , 4, 619-29	3.8	80
71	Analysis of volatile organic compounds (VOCs) in the headspace of NCI-H1666 lung cancer cells. <i>Cancer Biomarkers</i> , 2010 , 7, 153-61	3.8	67
70	Data interpretation in breath biomarker research: pitfalls and directions. <i>Journal of Breath Research</i> , 2012 , 6, 036007	3.1	66
69	Evaluation of needle trap micro-extraction and automatic alveolar sampling for point-of-care breath analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 3105-15	4.4	62
68	Monitoring of oxidative and metabolic stress during cardiac surgery by means of breath biomarkers: an observational study. <i>Journal of Cardiothoracic Surgery</i> , 2007 , 2, 37	1.6	62
67	Phase-resolved real-time breath analysis during exercise by means of smart processing of PTR-MS data. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2079-91	4.4	57
66	Drug detection in breath: effects of pulmonary blood flow and cardiac output on propofol exhalation. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2093-102	4.4	50
65	Breath markers and soluble lipid peroxidation markers in critically ill patients. <i>Clinical Chemistry and Laboratory Medicine</i> , 2002 , 40, 587-94	5.9	50
64	Immediate effects of breath holding maneuvers onto composition of exhaled breath. <i>Journal of Breath Research</i> , 2014 , 8, 037102	3.1	49
63	New coated SPME fibers for extraction and fast HPLC determination of selected drugs in human blood. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 1022-7	3.5	47

62	Instant effects of changing body positions on compositions of exhaled breath. <i>Journal of Breath Research</i> , 2015 , 9, 047105	3.1	46
61	FEV manoeuvre induced changes in breath VOC compositions: an unconventional view on lung function tests. <i>Scientific Reports</i> , 2016 , 6, 28029	4.9	45
60	Polypyrrole solid phase microextraction: A new approach to rapid sample preparation for the monitoring of antibiotic drugs. <i>Analytica Chimica Acta</i> , 2010 , 667, 77-82	6.6	44
59	Determination of antibiotic drug concentrations in circulating human blood by means of solid phase micro-extraction. <i>Clinica Chimica Acta</i> , 2007 , 386, 57-62	6.2	44
58	Volatile emissions from Mycobacterium avium subsp. paratuberculosis mirror bacterial growth and enable distinction of different strains. <i>PLoS ONE</i> , 2013 , 8, e76868	3.7	39
57	In Vivo Volatile Organic Compound Signatures of Mycobacterium avium subsp. paratuberculosis. <i>PLoS ONE</i> , 2015 , 10, e0123980	3.7	36
56	VOC breath profile in spontaneously breathing awake swine during Influenza A infection. <i>Scientific Reports</i> , 2018 , 8, 14857	4.9	36
55	Breath analysis during one-lung ventilation in cancer patients. <i>European Respiratory Journal</i> , 2012 , 40, 706-13	13.6	35
54	A novel visually CO2 controlled alveolar breath sampling technique. <i>Technology and Health Care</i> , 2006 , 14, 499-506	1.1	34
53	Metabolic monitoring and assessment of anaerobic threshold by means of breath biomarkers. <i>Metabolomics</i> , 2012 , 8, 1069-1080	4.7	33
52	Analysis of exhaled breath for screening of lung cancer patients. <i>Memo - Magazine of European Medical Oncology</i> , 2010 , 3, 106-112	0.3	31
51	Drug detection in breath: non-invasive assessment of illicit or pharmaceutical drugs. <i>Journal of Breath Research</i> , 2017 , 11, 024001	3.1	28
50	Exhaled volatile substances mirror clinical conditions in pediatric chronic kidney disease. <i>PLoS ONE</i> , 2017 , 12, e0178745	3.7	28
49	Surgical revision after percutaneous mitral valve repair by edge-to-edge device: when the strategy fails in the highest risk surgical population. <i>European Journal of Cardio-thoracic Surgery</i> , 2014 , 46, 55-60	3	28
48	Method for analysis of exhaled air by microwave energy desorption coupled with gas chromatography-flame ionization detection-mass spectrometry. <i>Biomedical Applications</i> , 1998 , 716, 27-38		27
47	Monitoring of breath VOCs and electrical impedance tomography under pulmonary recruitment in mechanically ventilated patients. <i>Journal of Breath Research</i> , 2017 , 11, 016005	3.1	26
46	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, 1773-81	7.8	26
45	Staged total percutaneous treatment of aortic valve pathology and mitral regurgitation: institutional experience. <i>Catheterization and Cardiovascular Interventions</i> , 2013 , 82, E552-63	2.7	25

44	Electrochemical sensor system for breath analysis of aldehydes, CO and NO. <i>Journal of Breath Research</i> , 2015 , 9, 016008	3.1	23
43	Physiological variability in volatile organic compounds (VOCs) in exhaled breath and released from faeces due to nutrition and somatic growth in a standardized caprine animal model. <i>Journal of Breath Research</i> , 2015 , 9, 027108	3.1	22
42	Effects of biological and methodological factors on volatile organic compound patterns during cultural growth of <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> . <i>Journal of Breath Research</i> , 2016 , 10, 037103	3.1	22
41	Applied upper-airway resistance instantly affects breath components: a unique insight into pulmonary medicine. <i>Journal of Breath Research</i> , 2017 , 11, 047108	3.1	21
40	Preparation and characterization of microporous fibers for sample preparation and LC-MS determination of drugs. <i>Journal of Separation Science</i> , 2009 , 32, 2448-54	3.4	21
39	Effects of humidity, CO and O on real-time quantitation of breath biomarkers by means of PTR-ToF-MS. <i>Journal of Breath Research</i> , 2018 , 12, 026016	3.1	20
38	Microextraction techniques in breath biomarker analysis. <i>Bioanalysis</i> , 2014 , 6, 1275-91	2.1	20
37	Percutaneous mitral valve repair with the MitraClip system: perioperative and 1-year follow-up results using standard or multiple clipping strategy. <i>Catheterization and Cardiovascular Interventions</i> , 2013 , 81, 1224-31	2.7	19
36	Clinical outcomes of conventional surgery versus MitraClip therapy for moderate to severe symptomatic mitral valve regurgitation in the elderly population: an institutional experience. <i>BMC Cardiovascular Disorders</i> , 2017 , 17, 85	2.3	17
35	Natural menstrual rhythm and oral contraception diversely affect exhaled breath compositions. <i>Scientific Reports</i> , 2018 , 8, 10838	4.9	17
34	Exhaled volatile substances in children suffering from type 1 diabetes mellitus: results from a cross-sectional study. <i>Scientific Reports</i> , 2019 , 9, 15707	4.9	16
33	Percutaneous mitral repair with the MitraClip system in patients with mild-to-moderate and severe heart failure: a single-centre experience. <i>Cardiovascular Therapeutics</i> , 2014 , 32, 66-73	3.3	16
32	Impact of food intake on in vivo VOC concentrations in exhaled breath assessed in a caprine animal model. <i>Journal of Breath Research</i> , 2015 , 9, 047113	3.1	16
31	Thoratec left ventricular assist device for bridging to recovery in fulminant acute myocarditis. <i>Annals of Thoracic Surgery</i> , 2002 , 74, 234-5	2.7	16
30	Lipid peroxidation early after brain injury. <i>Journal of Neurotrauma</i> , 2004 , 21, 667-77	5.4	14
29	Volatile scents of influenza A and <i>S. pyogenes</i> (co-)infected cells. <i>Scientific Reports</i> , 2019 , 9, 18894	4.9	13
28	Volatile breath biomarkers for patient monitoring during haemodialysis. <i>Journal of Breath Research</i> , 2013 , 7, 017116	3.1	12
27	Exhaled breath compositions under varying respiratory rhythms reflects ventilatory variations: translating breathomics towards respiratory medicine. <i>Scientific Reports</i> , 2020 , 10, 14109	4.9	11

26	Continuous real-time breath analysis in ruminants: effect of eructation on exhaled VOC profiles. <i>Journal of Breath Research</i> , 2018 , 12, 036014	3.1	10
25	Extending PTR based breath analysis to real-time monitoring of reactive volatile organic compounds. <i>Analyst, The</i> , 2019 , 144, 7359-7367	5	10
24	Strategies for the identification of disease-related patterns of volatile organic compounds: prediction of paratuberculosis in an animal model using random forests. <i>Journal of Breath Research</i> , 2017 , 11, 047105	3.1	9
23	Comparative analysis of volatile organic compounds for the classification and identification of mycobacterial species. <i>PLoS ONE</i> , 2018 , 13, e0194348	3.7	9
22	Non-Invasive Assessment of Metabolic Adaptation in Paediatric Patients Suffering from Type 1 Diabetes Mellitus. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	8
21	Investigation of the photoionization properties of pharmaceutically relevant substances by resonance-enhanced multiphoton ionization spectroscopy and single-photon ionization spectroscopy using synchrotron radiation. <i>Applied Spectroscopy</i> , 2013 , 67, 860-72	3.1	8
20	A novel visually CO2 controlled alveolar breath sampling technique. <i>Technology and Health Care</i> , 2006 , 14, 499-506	1.1	8
19	Effects of elevated oxygen levels on VOC analysis by means of PTR-ToF-MS. <i>Journal of Breath Research</i> , 2019 , 13, 046004	3.1	7
18	Intercomparison of infrared cavity leak-out spectroscopy and gas chromatography-flame ionization for trace analysis of ethane. <i>Analytical Chemistry</i> , 2008 , 80, 2768-73	7.8	7
17	Deficiency and absence of endogenous isoprene in adults, disqualified its putative origin. <i>Heliyon</i> , 2021 , 7, e05922	3.6	7
16	Crowd monitoring in dairy cattle-real-time VOC profiling by direct mass spectrometry. <i>Journal of Breath Research</i> , 2019 , 13, 046006	3.1	6
15	Differences in the Emission of Volatile Organic Compounds (VOCs) between Non-Differentiating and Adipogenically Differentiating Mesenchymal Stromal/Stem Cells from Human Adipose Tissue. <i>Cells</i> , 2019 , 8,	7.9	6
14	Breath Analysis in Critically Ill Patients Potential and Limitations 2013 , 155-176		6
13	Evaluation of needle trap micro-extraction and solid-phase micro-extraction: Obtaining comprehensive information on volatile emissions from in vitro cultures. <i>Biomedical Chromatography</i> , 2018 , 32, e4285	1.7	5
12	Can Recognition of Spinal Ischemia Be Improved? Application of Motor-Evoked Potentials, Serum Markers, and Breath Gas Analysis in an Acutely Instrumented Pig Model. <i>Annals of Vascular Surgery</i> , 2018 , 49, 191-205	1.7	4
11	Smell of cells: Volatile profiling of stem- and non-stem cell proliferation. <i>Journal of Breath Research</i> , 2018 , 12, 026014	3.1	4
10	Core profile of volatile organic compounds related to growth of Mycobacterium avium subspecies paratuberculosis - A comparative extract of three independent studies. <i>PLoS ONE</i> , 2019 , 14, e0221031	3.7	3
9	Effects of modular ion-funnel technology onto analysis of breath VOCs by means of real-time mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 7131-7140	4.4	3

8	Versatile set-up for non-invasive in vitro analysis of headspace VOCs. <i>Journal of Breath Research</i> , 2018 , 12, 041001	3.1	2
7	Changes of Exhaled Volatile Organic Compounds in Postoperative Patients Undergoing Analgesic Treatment: A Prospective Observational Study. <i>Metabolites</i> , 2020 , 10,	5.6	2
6	Physiological and metabolic effects of healthy female aging on exhaled breath biomarkers.. <i>IScience</i> , 2022 , 25, 103739	6.1	1
5	Detection of ssp. in Cultures From Fecal and Tissue Samples Using VOC Analysis and Machine Learning Tools. <i>Frontiers in Veterinary Science</i> , 2021 , 8, 620327	3.1	1
4	Breath monitoring in the intensive care unit 2020 , 289-303		
3	Spatial mapping of VOC exhalation by means of bronchoscopic sampling. <i>Journal of Breath Research</i> , 2020 , 14, 046012	3.1	
2	Ruminants 2020 , 441-460		
1	Non-Invasive O-Toluidine Monitoring during Regional Anaesthesia with Prilocaine and Detection of Accidental Intravenous Injection in an Animal Model. <i>Metabolites</i> , 2022 , 12, 502	5.6	