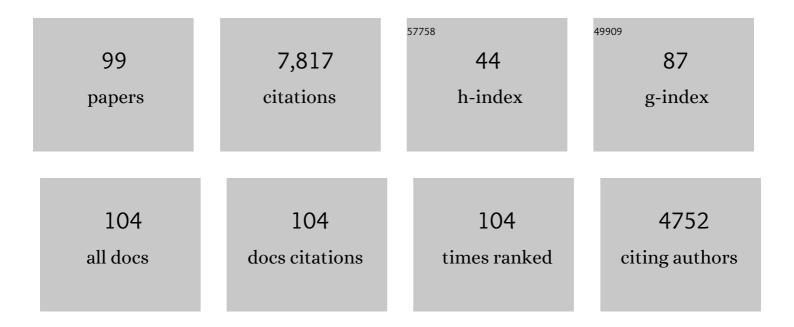
Jochen K Schubert

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Diagnostic potential of breath analysis—focus on volatile organic compounds. Clinica Chimica Acta, 2004, 347, 25-39.	1.1	906
2	Volume-dependent compliance and ventilation-perfusion mismatch in surfactant-depleted isolated rabbit lungs. Critical Care Medicine, 2001, 29, 144-151.	0.9	568
3	The human volatilome: volatile organic compounds (VOCs) in exhaled breath, skin emanations, urine, feces and saliva. Journal of Breath Research, 2014, 8, 034001.	3.0	504
4	Noninvasive detection of lung cancer by analysis of exhaled breath. BMC Cancer, 2009, 9, 348.	2.6	472
5	Breath gas aldehydes as biomarkers of lung cancer. International Journal of Cancer, 2010, 126, 2663-2670.	5.1	359
6	lsoprene and acetone concentration profiles during exercise on an ergometer. Journal of Breath Research, 2009, 3, 027006.	3.0	249
7	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.	2.3	216
8	TD-GC-MS Analysis of Volatile Metabolites of Human Lung Cancer and Normal Cells <i>In vitro</i> . Cancer Epidemiology Biomarkers and Prevention, 2010, 19, 182-195.	2.5	205
9	Breath biomarkers for lung cancer detection and assessment of smoking related effects — confounding variables, influence of normalization and statistical algorithms. Clinica Chimica Acta, 2010, 411, 1637-1644.	1.1	178
10	Release of volatile organic compounds (VOCs) from the lung cancer cell line CALU-1 in vitro. Cancer Cell International, 2008, 8, 17.	4.1	163
11	Analysis of Exhaled Breath for Disease Detection. Annual Review of Analytical Chemistry, 2014, 7, 455-482.	5.4	160
12	Impact of sampling procedures on the results of breath analysis. Journal of Breath Research, 2008, 2, 026007.	3.0	132
13	Breath isoprene – aspects of normal physiology related to age, gender and cholesterol profile as determined in a proton transfer reaction mass spectrometry study. Clinical Chemistry and Laboratory Medicine, 2008, 46, 1011-8.	2.3	131
14	Automated Needle Trap Heart-Cut GC/MS and Needle Trap Comprehensive Two-Dimensional GC/TOF-MS for Breath Gas Analysis in the Clinical Environment. Analytical Chemistry, 2010, 82, 2541-2551.	6.5	128
15	Continuous Real Time Breath Gas Monitoring in the Clinical Environment by Proton-Transfer-Reaction-Time-of-Flight-Mass Spectrometry. Analytical Chemistry, 2013, 85, 10321-10329.	6.5	126
16	Assessment of propofol concentrations in human breath and blood by means of HS-SPME–GC–MS. Clinica Chimica Acta, 2008, 395, 32-37.	1.1	123
17	Breath acetone—aspects of normal physiology related to age and gender as determined in a PTR-MS study. Journal of Breath Research, 2009, 3, 027003.	3.0	117
18	Analysis of Volatile Disease Markers in Blood. Clinical Chemistry, 2001, 47, 1053-1060.	3.2	113

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19	From highly sophisticated analytical techniques to life-saving diagnostics: Technical developments in breath analysis. TrAC - Trends in Analytical Chemistry, 2006, 25, 665-673.	11.4	113
20	Release of volatile organic compounds from the lung cancer cell line NCI-H2087 in vitro. Anticancer Research, 2009, 29, 419-26.	1.1	110
21	Application of a new method for analysis of exhaled gas in critically ill patients. Intensive Care Medicine, 1998, 24, 415-421.	8.2	97
22	CO2-controlled sampling of alveolar gas in mechanically ventilated patients. Journal of Applied Physiology, 2001, 90, 486-492.	2.5	97
23	Breath analysis in critically ill patients: potential and limitations. Expert Review of Molecular Diagnostics, 2004, 4, 619-629.	3.1	97
24	Multibed Needle Trap Devices for on Site Sampling and Preconcentration of Volatile Breath Biomarkers. Analytical Chemistry, 2009, 81, 5851-5857.	6.5	97
25	Impact of inspired substance concentrations on the results of breath analysis in mechanically ventilated patients. Biomarkers, 2005, 10, 138-152.	1.9	93
26	Needle trap micro-extraction for VOC analysis: Effects of packing materials and desorption parameters. Journal of Chromatography A, 2012, 1219, 29-38.	3.7	92
27	Data interpretation in breath biomarker research: pitfalls and directions. Journal of Breath Research, 2012, 6, 036007.	3.0	84
28	Phase-resolved real-time breath analysis during exercise by means of smart processing of PTR-MS data. Analytical and Bioanalytical Chemistry, 2011, 401, 2079-2091.	3.7	77
29	Analysis of volatile organic compounds (VOCs) in the headspace of NCI-H1666 lung cancer cells. Cancer Biomarkers, 2011, 7, 153-161.	1.7	77
30	Monitoring of oxidative and metabolic stress during cardiac surgery by means of breath biomarkers: an observational study. Journal of Cardiothoracic Surgery, 2007, 2, 37.	1.1	74
31	Evaluation of needle trap micro-extraction and automatic alveolar sampling for point-of-care breath analysis. Analytical and Bioanalytical Chemistry, 2013, 405, 3105-3115.	3.7	69
32	Instant effects of changing body positions on compositions of exhaled breath. Journal of Breath Research, 2015, 9, 047105.	3.0	68
33	Immediate effects of breath holding maneuvers onto composition of exhaled breath. Journal of Breath Research, 2014, 8, 037102.	3.0	66
34	Breath Markers and Soluble Lipid Peroxidation Markers in Critically Ill Patients. Clinical Chemistry and Laboratory Medicine, 2002, 40, 587-94.	2.3	65
35	VOC breath profile in spontaneously breathing awake swine during Influenza A infection. Scientific Reports, 2018, 8, 14857.	3.3	61
36	Drug detection in breath: effects of pulmonary blood flow and cardiac output on propofol exhalation. Analytical and Bioanalytical Chemistry, 2011, 401, 2093-102.	3.7	56

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37	FEV manoeuvre induced changes in breath VOC compositions: an unconventional view on lung function tests. Scientific Reports, 2016, 6, 28029.	3.3	56
38	New coated SPME fibers for extraction and fast HPLC determination of selected drugs in human blood. Journal of Pharmaceutical and Biomedical Analysis, 2010, 53, 1022-1027.	2.8	49
39	Metabolic monitoring and assessment of anaerobic threshold by means of breath biomarkers. Metabolomics, 2012, 8, 1069-1080.	3.0	49
40	Volatile Emissions from Mycobacterium avium subsp. paratuberculosis Mirror Bacterial Growth and Enable Distinction of Different Strains. PLoS ONE, 2013, 8, e76868.	2.5	48
41	Exhaled volatile substances mirror clinical conditions in pediatric chronic kidney disease. PLoS ONE, 2017, 12, e0178745.	2.5	47
42	Polypyrrole solid phase microextraction: A new approach to rapid sample preparation for the monitoring of antibiotic drugs. Analytica Chimica Acta, 2010, 667, 77-82.	5.4	46
43	Determination of antibiotic drug concentrations in circulating human blood by means of solid phase micro-extraction. Clinica Chimica Acta, 2007, 386, 57-62.	1.1	45
44	In Vivo Volatile Organic Compound Signatures of Mycobacterium avium subsp. paratuberculosis. PLoS ONE, 2015, 10, e0123980.	2.5	45
45	Drug detection in breath: non-invasive assessment of illicit or pharmaceutical drugs. Journal of Breath Research, 2017, 11, 024001.	3.0	42
46	Breath analysis during one-lung ventilation in cancer patients. European Respiratory Journal, 2012, 40, 706-713.	6.7	39
47	Effects of humidity, CO ₂ and O ₂ on real-time quantitation of breath biomarkers by means of PTR-ToF-MS. Journal of Breath Research, 2018, 12, 026016.	3.0	39
48	A novel visually CO2 controlled alveolar breath sampling technique. Technology and Health Care, 2006, 14, 499-506.	1.2	37
49	Surgical revision after percutaneous mitral valve repair by edge-to-edge device: when the strategy fails in the highest risk surgical population. European Journal of Cardio-thoracic Surgery, 2014, 46, 55-60.	1.4	37
50	Electrochemical sensor system for breath analysis of aldehydes, CO and NO. Journal of Breath Research, 2015, 9, 016008.	3.0	37
51	Exhaled breath compositions under varying respiratory rhythms reflects ventilatory variations: translating breathomics towards respiratory medicine. Scientific Reports, 2020, 10, 14109.	3.3	37
52	Analysis of exhaled breath for screening of lung cancer patients. Memo - Magazine of European Medical Oncology, 2010, 3, 106-112.	0.5	35
53	Applied upper-airway resistance instantly affects breath components: a unique insight into pulmonary medicine. Journal of Breath Research, 2017, 11, 047108.	3.0	35
54	Natural menstrual rhythm and oral contraception diversely affect exhaled breath compositions. Scientific Reports, 2018, 8, 10838.	3.3	35

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55	Exhaled volatile substances in children suffering from type 1 diabetes mellitus: results from a cross-sectional study. Scientific Reports, 2019, 9, 15707.	3.3	34
56	Monitoring of breath VOCs and electrical impedance tomography under pulmonary recruitment in mechanically ventilated patients. Journal of Breath Research, 2017, 11, 016005.	3.0	33
57	Method for analysis of exhaled air by microwave energy desorption coupled with gas chromatography–flame ionization detection–mass spectrometry. Biomedical Applications, 1998, 716, 27-38.	1.7	31
58	Staged total percutaneous treatment of aortic valve pathology and mitral regurgitation: Institutional experience. Catheterization and Cardiovascular Interventions, 2013, 82, E552-63.	1.7	31
59	Detection of Gaseous Compounds by Needle Trap Sampling and Direct Thermal-Desorption Photoionization Mass Spectrometry: Concept and Demonstrative Application to Breath Gas Analysis. Analytical Chemistry, 2015, 87, 1773-1781.	6.5	30
60	Deficiency and absence of endogenous isoprene in adults, disqualified its putative origin. Heliyon, 2021, 7, e05922.	3.2	30
61	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. Journal of Breath Research, 2015, 9, 027108.	3.0	28
62	Non-Invasive Assessment of Metabolic Adaptation in Paediatric Patients Suffering from Type 1 Diabetes Mellitus. Journal of Clinical Medicine, 2019, 8, 1797.	2.4	27
63	Volatile scents of influenza A and S. pyogenes (co-)infected cells. Scientific Reports, 2019, 9, 18894.	3.3	26
64	Microextraction techniques in breath biomarker analysis. Bioanalysis, 2014, 6, 1275-1291.	1.5	25
65	Impact of food intake on <i>in vivo</i> VOC concentrations in exhaled breath assessed in a caprine animal model. Journal of Breath Research, 2015, 9, 047113.	3.0	25
66	Preparation and characterization of microporous fibers for sample preparation and LCâ€MS determination of drugs. Journal of Separation Science, 2009, 32, 2448-2454.	2.5	24
67	Effects of biological and methodological factors on volatile organic compound patterns during cultural growth of <i>Mycobacterium avium</i> ssp <i>. paratuberculosis</i> . Journal of Breath Research, 2016, 10, 037103.	3.0	24
68	Clinical outcomes of conventional surgery versus MitraClip® therapy for moderate to severe symptomatic mitral valve regurgitation in the elderly population: an institutional experience. BMC Cardiovascular Disorders, 2017, 17, 85.	1.7	24
69	Percutaneous mitral valve repair with the mitraclip ^{\hat{A}^{\otimes}} system. Catheterization and Cardiovascular Interventions, 2013, 81, 1224-1231.	1.7	22
70	Thoratec left ventricular assist device for bridging to recovery in fulminant acute myocarditis. Annals of Thoracic Surgery, 2002, 74, 234-235.	1.3	20
71	Continuous real-time breath analysis in ruminants: effect of eructation on exhaled VOC profiles. Journal of Breath Research, 2018, 12, 036014.	3.0	20
72	Percutaneous Mitral Repair with the <scp>M</scp> itra <scp>C</scp> lip System in Patients with Mildâ€ŧoâ€Moderate and Severe Heart Failure: A Single entre Experience. Cardiovascular Therapeutics, 2014, 32, 66-73.	2.5	19

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73	Lipid Peroxidation Early after Brain Injury. Journal of Neurotrauma, 2004, 21, 667-677.	3.4	18
74	Differences in the Emission of Volatile Organic Compounds (VOCs) between Non-Differentiating and Adipogenically Differentiating Mesenchymal Stromal/Stem Cells from Human Adipose Tissue. Cells, 2019, 8, 697.	4.1	18
75	Changes of Exhaled Volatile Organic Compounds in Postoperative Patients Undergoing Analgesic Treatment: A Prospective Observational Study. Metabolites, 2020, 10, 321.	2.9	18
76	Physiological and metabolic effects of healthy female aging on exhaled breath biomarkers. IScience, 2022, 25, 103739.	4.1	18
77	Extending PTR based breath analysis to real-time monitoring of reactive volatile organic compounds. Analyst, The, 2019, 144, 7359-7367.	3.5	16
78	Volatile breath biomarkers for patient monitoring during haemodialysis. Journal of Breath Research, 2013, 7, 017116.	3.0	14
79	Comparative analysis of volatile organic compounds for the classification and identification of mycobacterial species. PLoS ONE, 2018, 13, e0194348.	2.5	14
80	Strategies for the identification of disease-related patterns of volatile organic compounds: prediction of paratuberculosis in an animal model using random forests. Journal of Breath Research, 2017, 11, 047105.	3.0	13
81	A novel visually CO2 controlled alveolar breath sampling technique. Technology and Health Care, 2006, 14, 499-506.	1.2	13
82	Crowd monitoring in dairy cattle—real-time VOC profiling by direct mass spectrometry. Journal of Breath Research, 2019, 13, 046006.	3.0	10
83	Effects of elevated oxygen levels on VOC analysis by means of PTR-ToF-MS. Journal of Breath Research, 2019, 13, 046004.	3.0	9
84	Investigation of the Photoionization Properties of Pharmaceutically Relevant Substances by Resonance-Enhanced Multiphoton Ionization Spectroscopy and Single-Photon Ionization Spectroscopy Using Synchrotron Radiation. Applied Spectroscopy, 2013, 67, 860-872.	2.2	8
85	Evaluation of needle trap microâ€extraction and solidâ€phase microâ€extraction: Obtaining comprehensive information on volatile emissions from <i>in vitro</i> cultures. Biomedical Chromatography, 2018, 32, e4285.	1.7	8
86	Intercomparison of Infrared Cavity Leak-Out Spectroscopy and Gas Chromatography-Flame Ionization for Trace Analysis of Ethane. Analytical Chemistry, 2008, 80, 2768-2773.	6.5	7
87	Detection of Mycobacterium avium ssp. paratuberculosis in Cultures From Fecal and Tissue Samples Using VOC Analysis and Machine Learning Tools. Frontiers in Veterinary Science, 2021, 8, 620327.	2.2	7
88	Breath Analysis in Critically III Patients—Potential and Limitations. , 2013, , 155-176.		6
89	Can Recognition of Spinal Ischemia Be Improved? Application of Motor-Evoked Potentials, Serum Markers, and Breath Gas Analysis in an Acutely Instrumented Pig Model. Annals of Vascular Surgery, 2018, 49, 191-205.	0.9	5
90	Effects of modular ion-funnel technology onto analysis of breath VOCs by means of real-time mass spectrometry. Analytical and Bioanalytical Chemistry, 2020, 412, 7131-7140.	3.7	5

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91	Smell of cells: Volatile profiling of stem- and non-stem cell proliferation. Journal of Breath Research, 2018, 12, 026014.	3.0	4
92	Versatile set-up for non-invasive <i>in vitro</i> analysis of headspace VOCs. Journal of Breath Research, 2018, 12, 041001.	3.0	4
93	Core profile of volatile organic compounds related to growth of Mycobacterium avium subspecies paratuberculosis – A comparative extract of three independent studies. PLoS ONE, 2019, 14, e0221031.	2.5	4
94	Detection of Paratuberculosis in Dairy Herds by Analyzing the Scent of Feces, Alveolar Gas and Stable Air. Molecules, 2021, 26, 2854.	3.8	2
95	Ruminants. , 2020, , 441-460.		1
96	Spatial mapping of VOC exhalation by means of bronchoscopic sampling. Journal of Breath Research, 2020, 14, 046012.	3.0	1
97	Biomarkers. Analytical and Bioanalytical Chemistry, 2011, 401, 2037-2038.	3.7	0
98	Breath monitoring in the intensive care unit. , 2020, , 289-303.		0
99	Non-Invasive O-Toluidine Monitoring during Regional Anaesthesia with Prilocaine and Detection of Accidental Intravenous Injection in an Animal Model. Metabolites, 2022, 12, 502.	2.9	0