Jochen K Schubert

List of Publications by Year in descending order

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99 papers

7,817 citations

57758 44 h-index 49909 87 g-index

104 all docs

104 docs citations

104 times ranked 4752 citing authors

#	Article	IF	CITATIONS
1	Physiological and metabolic effects of healthy female aging on exhaled breath biomarkers. IScience, 2022, 25, 103739.	4.1	18
2	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
3	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
4	Detection of Paratuberculosis in Dairy Herds by Analyzing the Scent of Feces, Alveolar Gas and Stable Air. Molecules, 2021, 26, 2854.	3.8	2
5	Deficiency and absence of endogenous isoprene in adults, disqualified its putative origin. Heliyon, 2021, 7, e05922.	3.2	30
6	Exhaled breath compositions under varying respiratory rhythms reflects ventilatory variations: translating breathomics towards respiratory medicine. Scientific Reports, 2020, 10, 14109.	3.3	37
7	Changes of Exhaled Volatile Organic Compounds in Postoperative Patients Undergoing Analgesic Treatment: A Prospective Observational Study. Metabolites, 2020, 10, 321.	2.9	18
8	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
9	Ruminants. , 2020, , 441-460.		1
10	Breath monitoring in the intensive care unit. , 2020, , 289-303.		0
11	Spatial mapping of VOC exhalation by means of bronchoscopic sampling. Journal of Breath Research, 2020, 14, 046012.	3.0	1
12	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
13	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
14	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
15	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
16	Effects of elevated oxygen levels on VOC analysis by means of PTR-ToF-MS. Journal of Breath Research, 2019, 13, 046004.	3.0	9
17	Crowd monitoring in dairy cattle—real-time VOC profiling by direct mass spectrometry. Journal of Breath Research, 2019, 13, 046006.	3.0	10
18	Volatile scents of influenza A and S. pyogenes (co-)infected cells. Scientific Reports, 2019, 9, 18894.	3.3	26

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19	Extending PTR based breath analysis to real-time monitoring of reactive volatile organic compounds. Analyst, The, 2019, 144, 7359-7367.	3.5	16
20	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
21	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
22	Smell of cells: Volatile profiling of stem- and non-stem cell proliferation. Journal of Breath Research, 2018, 12, 026014.	3.0	4
23	Continuous real-time breath analysis in ruminants: effect of eructation on exhaled VOC profiles. Journal of Breath Research, 2018, 12, 036014.	3.0	20
24	VOC breath profile in spontaneously breathing awake swine during Influenza A infection. Scientific Reports, 2018, 8, 14857.	3.3	61
25	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
26	Natural menstrual rhythm and oral contraception diversely affect exhaled breath compositions. Scientific Reports, 2018, 8, 10838.	3.3	35
27	Versatile set-up for non-invasive <i>iin vitro</i> analysis of headspace VOCs. Journal of Breath Research, 2018, 12, 041001.	3.0	4
28	Comparative analysis of volatile organic compounds for the classification and identification of mycobacterial species. PLoS ONE, 2018, 13, e0194348.	2.5	14
29	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
30	Drug detection in breath: non-invasive assessment of illicit or pharmaceutical drugs. Journal of Breath Research, 2017, 11, 024001.	3.0	42
31	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
32	Applied upper-airway resistance instantly affects breath components: a unique insight into pulmonary medicine. Journal of Breath Research, 2017, 11, 047108.	3.0	35
33	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
34	Exhaled volatile substances mirror clinical conditions in pediatric chronic kidney disease. PLoS ONE, 2017, 12, e0178745.	2.5	47
35	FEV manoeuvre induced changes in breath VOC compositions: an unconventional view on lung function tests. Scientific Reports, 2016, 6, 28029.	3.3	56
36	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

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37	Instant effects of changing body positions on compositions of exhaled breath. Journal of Breath Research, 2015, 9, 047105.	3.0	68
38	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
39	In Vivo Volatile Organic Compound Signatures of Mycobacterium avium subsp. paratuberculosis. PLoS ONE, 2015, 10, e0123980.	2.5	45
40	Electrochemical sensor system for breath analysis of aldehydes, CO and NO. Journal of Breath Research, 2015, 9, 016008.	3.0	37
41	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
42	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
43	Microextraction techniques in breath biomarker analysis. Bioanalysis, 2014, 6, 1275-1291.	1.5	25
44	Immediate effects of breath holding maneuvers onto composition of exhaled breath. Journal of Breath Research, 2014, 8, 037102.	3.0	66
45	Percutaneous Mitral Repair with the <scp>M</scp> itra <scp>C</scp> lip System in Patients with Mildâ€toâ€Moderate and Severe Heart Failure: A Singleâ€Centre Experience. Cardiovascular Therapeutics, 2014, 32, 66-73.	2.5	19
46	Analysis of Exhaled Breath for Disease Detection. Annual Review of Analytical Chemistry, 2014, 7, 455-482.	5.4	160
47	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
48	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
49	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
50	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
51	Breath Analysis in Critically Ill Patientsâ€"Potential and Limitations. , 2013, , 155-176.		6
52	Volatile breath biomarkers for patient monitoring during haemodialysis. Journal of Breath Research, 2013, 7, 017116.	3.0	14
53	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
54	Staged total percutaneous treatment of aortic valve pathology and mitral regurgitation: Institutional experience. Catheterization and Cardiovascular Interventions, 2013, 82, E552-63.	1.7	31

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55	Percutaneous mitral valve repair with the mitraclip (sup) \hat{A}^{\otimes} (sup) system. Catheterization and Cardiovascular Interventions, 2013, 81, 1224-1231.	1.7	22
56	Volatile Emissions from Mycobacterium avium subsp. paratuberculosis Mirror Bacterial Growth and Enable Distinction of Different Strains. PLoS ONE, 2013, 8, e76868.	2.5	48
57	Breath analysis during one-lung ventilation in cancer patients. European Respiratory Journal, 2012, 40, 706-713.	6.7	39
58	Metabolic monitoring and assessment of anaerobic threshold by means of breath biomarkers. Metabolomics, 2012, 8, 1069-1080.	3.0	49
59	Data interpretation in breath biomarker research: pitfalls and directions. Journal of Breath Research, 2012, 6, 036007.	3.0	84
60	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
61	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
62	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
63	Biomarkers. Analytical and Bioanalytical Chemistry, 2011, 401, 2037-2038.	3.7	0
64	Analysis of volatile organic compounds (VOCs) in the headspace of NCI-H1666 lung cancer cells. Cancer Biomarkers, 2011, 7, 153-161.	1.7	77
65	Breath gas aldehydes as biomarkers of lung cancer. International Journal of Cancer, 2010, 126, 2663-2670.	5.1	359
66	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
67	Analysis of exhaled breath for screening of lung cancer patients. Memo - Magazine of European Medical Oncology, 2010, 3, 106-112.	0.5	35
68	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
69	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
70	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
71	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
72	Noninvasive detection of lung cancer by analysis of exhaled breath. BMC Cancer, 2009, 9, 348.	2.6	472

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73	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
74	Multibed Needle Trap Devices for on Site Sampling and Preconcentration of Volatile Breath Biomarkers. Analytical Chemistry, 2009, 81, 5851-5857.	6.5	97
75	Isoprene and acetone concentration profiles during exercise on an ergometer. Journal of Breath Research, 2009, 3, 027006.	3.0	249
76	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
77	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
78	Release of volatile organic compounds from the lung cancer cell line NCI-H2087 in vitro. Anticancer Research, 2009, 29, 419-26.	1.1	110
79	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
80	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
81	Impact of sampling procedures on the results of breath analysis. Journal of Breath Research, 2008, 2, 026007.	3.0	132
82	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
83	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
84	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
85	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
86	A novel visually CO2 controlled alveolar breath sampling technique. Technology and Health Care, 2006, 14, 499-506.	1.2	37
87	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
88	A novel visually CO2 controlled alveolar breath sampling technique. Technology and Health Care, 2006, 14, 499-506.	1.2	13
89	Impact of inspired substance concentrations on the results of breath analysis in mechanically ventilated patients. Biomarkers, 2005, 10, 138-152.	1.9	93
90	Lipid Peroxidation Early after Brain Injury. Journal of Neurotrauma, 2004, 21, 667-677.	3.4	18

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91	Breath analysis in critically ill patients: potential and limitations. Expert Review of Molecular Diagnostics, 2004, 4, 619-629.	3.1	97
92	Diagnostic potential of breath analysisâ€"focus on volatile organic compounds. Clinica Chimica Acta, 2004, 347, 25-39.	1.1	906
93	Breath Markers and Soluble Lipid Peroxidation Markers in Critically Ill Patients. Clinical Chemistry and Laboratory Medicine, 2002, 40, 587-94.	2.3	65
94	Thoratec left ventricular assist device for bridging to recovery in fulminant acute myocarditis. Annals of Thoracic Surgery, 2002, 74, 234-235.	1.3	20
95	Analysis of Volatile Disease Markers in Blood. Clinical Chemistry, 2001, 47, 1053-1060.	3.2	113
96	CO2-controlled sampling of alveolar gas in mechanically ventilated patients. Journal of Applied Physiology, 2001, 90, 486-492.	2.5	97
97	Volume-dependent compliance and ventilation-perfusion mismatch in surfactant-depleted isolated rabbit lungs. Critical Care Medicine, 2001, 29, 144-151.	0.9	568
98	Application of a new method for analysis of exhaled gas in critically ill patients. Intensive Care Medicine, 1998, 24, 415-421.	8.2	97
99	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