Phillip Trefz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/544894/publications.pdf

Version: 2024-02-01

30 papers	1,238 citations	361045 20 h-index	500791 28 g-index
30 all docs	30 docs citations	30 times ranked	1116 citing authors

#	Article	IF	Citations
1	Breath biomarkers for lung cancer detection and assessment of smoking related effects â€" confounding variables, influence of normalization and statistical algorithms. Clinica Chimica Acta, 2010, 411, 1637-1644.	0.5	178
2	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.	3.2	126
3	Needle trap micro-extraction for VOC analysis: Effects of packing materials and desorption parameters. Journal of Chromatography A, 2012, 1219, 29-38.	1.8	92
4	Evaluation of needle trap micro-extraction and automatic alveolar sampling for point-of-care breath analysis. Analytical and Bioanalytical Chemistry, 2013, 405, 3105-3115.	1.9	69
5	Instant effects of changing body positions on compositions of exhaled breath. Journal of Breath Research, 2015, 9, 047105.	1.5	68
6	Immediate effects of breath holding maneuvers onto composition of exhaled breath. Journal of Breath Research, 2014, 8, 037102.	1.5	66
7	VOC breath profile in spontaneously breathing awake swine during Influenza A infection. Scientific Reports, 2018, 8, 14857.	1.6	61
8	FEV manoeuvre induced changes in breath VOC compositions: an unconventional view on lung function tests. Scientific Reports, 2016, 6, 28029.	1.6	56
9	Exhaled volatile substances mirror clinical conditions in pediatric chronic kidney disease. PLoS ONE, 2017, 12, e0178745.	1.1	47
10	In Vivo Volatile Organic Compound Signatures of Mycobacterium avium subsp. paratuberculosis. PLoS ONE, 2015, 10, e0123980.	1.1	45
11	Drug detection in breath: non-invasive assessment of illicit or pharmaceutical drugs. Journal of Breath Research, 2017, 11, 024001.	1.5	42
12	Oral or nasal breathing? Real-time effects of switching sampling route onto exhaled VOC concentrations. Journal of Breath Research, 2017, 11, 027101.	1.5	39
13	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.	1.5	39
14	Exhaled breath compositions under varying respiratory rhythms reflects ventilatory variations: translating breathomics towards respiratory medicine. Scientific Reports, 2020, 10, 14109.	1.6	37
15	Applied upper-airway resistance instantly affects breath components: a unique insight into pulmonary medicine. Journal of Breath Research, 2017, 11, 047108.	1.5	35
16	Natural menstrual rhythm and oral contraception diversely affect exhaled breath compositions. Scientific Reports, 2018, 8, 10838.	1.6	35
17	Exhaled volatile substances in children suffering from type 1 diabetes mellitus: results from a cross-sectional study. Scientific Reports, 2019, 9, 15707.	1.6	34
18	Monitoring of breath VOCs and electrical impedance tomography under pulmonary recruitment in mechanically ventilated patients. Journal of Breath Research, 2017, 11, 016005.	1.5	33

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19	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.	1.5	28
20	Non-Invasive Assessment of Metabolic Adaptation in Paediatric Patients Suffering from Type 1 Diabetes Mellitus. Journal of Clinical Medicine, 2019, 8, 1797.	1.0	27
21	Changes of Exhaled Volatile Organic Compounds in Postoperative Patients Undergoing Analgesic Treatment: A Prospective Observational Study. Metabolites, 2020, 10, 321.	1.3	18
22	Physiological and metabolic effects of healthy female aging on exhaled breath biomarkers. IScience, 2022, 25, 103739.	1.9	18
23	Extending PTR based breath analysis to real-time monitoring of reactive volatile organic compounds. Analyst, The, 2019, 144, 7359-7367.	1.7	16
24	Effects of elevated oxygen levels on VOC analysis by means of PTR-ToF-MS. Journal of Breath Research, 2019, 13, 046004.	1.5	9
25	Evaluation of needle trap microâ€extraction and solidâ€phase microâ€extraction: Obtaining comprehensive information on volatile emissions from in vitro cultures. Biomedical Chromatography, 2018, 32, e4285.	0.8	8
26	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.	1.9	5
27	Versatile set-up for non-invasive in vitro analysis of headspace VOCs. Journal of Breath Research, 2018, 12, 041001.	1.5	4
28	Online-Analyse von Mikroreaktionsprozessen mittels Pushbroom Imaging. Chemie-Ingenieur-Technik, 2010, 82, 525-530.	0.4	3
29	Einsatz der Multimodalspektroskopie bei der Kristallisation. Chemie-Ingenieur-Technik, 2010, 82, 509-515.	0.4	0
30	Non-Invasive O-Toluidine Monitoring during Regional Anaesthesia with Prilocaine and Detection of Accidental Intravenous Injection in an Animal Model. Metabolites, 2022, 12, 502.	1.3	0