

Pablo Martinez-lozano Sinues

List of Publications by Year in descending order

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105
papers

3,121
citations

147801

31
h-index

197818

49
g-index

110
all docs

110
docs citations

110
times ranked

2936
citing authors

#	ARTICLE	IF	CITATIONS
1	CPAP vs Mandibular Advancement Devices and Blood Pressure in Patients With Obstructive Sleep Apnea. JAMA - Journal of the American Medical Association, 2015, 314, 2280.	7.4	269
2	On-Line Analysis of Exhaled Breath. Chemical Reviews, 2019, 119, 10803-10828.	47.7	157
3	Secondary electrospray ionization (SESI) of ambient vapors for explosive detection at concentrations below parts per trillion. Journal of the American Society for Mass Spectrometry, 2009, 20, 287-294.	2.8	118
4	Direct Analysis of Fatty Acid Vapors in Breath by Electrospray Ionization and Atmospheric Pressure Ionization-Mass Spectrometry. Analytical Chemistry, 2008, 80, 8210-8215.	6.5	97
5	Comparison of the effects of continuous positive airway pressure and mandibular advancement devices on sleepiness in patients with obstructive sleep apnoea: a network meta-analysis. Lancet Respiratory Medicine, 2015, 3, 869-878.	10.7	84
6	Electrospray ionization of volatiles in breath. International Journal of Mass Spectrometry, 2007, 265, 68-72.	1.5	72
7	Circadian Variation of the Human Metabolome Captured by Real-Time Breath Analysis. PLoS ONE, 2014, 9, e114422.	2.5	65
8	On-line detection of human skin vapors. Journal of the American Society for Mass Spectrometry, 2009, 20, 1060-1063.	2.8	64
9	Secondary electrospray ionization-mass spectrometry: breath study on a control group. Journal of Breath Research, 2011, 5, 016002.	3.0	62
10	Efficacy of pharmacotherapy for OSA in adults: A systematic review and network meta-analysis. Sleep Medicine Reviews, 2019, 46, 74-86.	8.5	59
11	Human Breath Analysis May Support the Existence of Individual Metabolic Phenotypes. PLoS ONE, 2013, 8, e59909.	2.5	59
12	Expanding metabolite coverage of real-time breath analysis by coupling a universal secondary electrospray ionization source and high resolution mass spectrometry—a pilot study on tobacco smokers. Journal of Breath Research, 2016, 10, 016010.	3.0	58
13	The impact of obstructive sleep apnoea on the aorta. European Respiratory Journal, 2015, 46, 532-544.	6.7	57
14	Monitoring Diurnal Changes in Exhaled Human Breath. Analytical Chemistry, 2013, 85, 369-373.	6.5	55
15	Drug Pharmacokinetics Determined by Real-Time Analysis of Mouse Breath. Angewandte Chemie - International Edition, 2015, 54, 7815-7818.	13.8	55
16	Standardization procedures for real-time breath analysis by secondary electrospray ionization high-resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2019, 411, 4883-4898.	3.7	55
17	Influence of seasonal factors on the atmospheric particle number concentration and size distribution in Madrid. Atmospheric Environment, 2011, 45, 3169-3180.	4.1	51
18	Effects of CPAP therapy withdrawal on exhaled breath pattern in obstructive sleep apnoea. Thorax, 2016, 71, 110-117.	5.6	51

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19	Mechanistic study on the ionization of trace gases by an electrospray plume. <i>International Journal of Mass Spectrometry</i> , 2012, 313, 21-29.	1.5	49
20	Breath Analysis in Real Time by Mass Spectrometry in Chronic Obstructive Pulmonary Disease. <i>Respiration</i> , 2014, 87, 301-310.	2.6	49
21	Identification of 2-Alkenals, 4-Hydroxy-2-alkenals, and 4-Hydroxy-2,6-alkadienals in Exhaled Breath Condensate by UHPLC-HRMS and in Breath by Real-Time HRMS. <i>Analytical Chemistry</i> , 2015, 87, 3087-3093.	6.5	49
22	Real-time mass spectrometric identification of metabolites characteristic of chronic obstructive pulmonary disease in exhaled breath. <i>Clinical Mass Spectrometry</i> , 2018, 7, 29-35.	1.9	46
23	Night-to-night variability of respiratory events in obstructive sleep apnoea: a systematic review and meta-analysis. <i>Thorax</i> , 2020, 75, 1095-1102.	5.6	46
24	Real-Time Monitoring of Tricarboxylic Acid Metabolites in Exhaled Breath. <i>Analytical Chemistry</i> , 2018, 90, 6453-6460.	6.5	44
25	Mass-Spectrometric Detection of Omega-Oxidation Products of Aliphatic Fatty Acids in Exhaled Breath. <i>Analytical Chemistry</i> , 2017, 89, 10329-10334.	6.5	43
26	A benchmarking protocol for breath analysis: the peppermint experiment. <i>Journal of Breath Research</i> , 2020, 14, 046008.	3.0	41
27	Molecular breath analysis supports altered amino acid metabolism in idiopathic pulmonary fibrosis. <i>Respirology</i> , 2019, 24, 437-444.	2.3	40
28	Analysis of the Exhalome. <i>Chest</i> , 2013, 144, 746-749.	0.8	38
29	Intrathoracic pressure swings induced by simulated obstructive sleep apnoea promote arrhythmias in paroxysmal atrial fibrillation. <i>Europace</i> , 2016, 18, 64-70.	1.7	38
30	Real-Time Quantification of Amino Acids in the Exhalome by Secondary Electrospray Ionizationâ€“Mass Spectrometry: A Proof-of-Principle Study. <i>Clinical Chemistry</i> , 2016, 62, 1230-1237.	3.2	36
31	Real-Time Breath Analysis Reveals Specific Metabolic Signatures of COPD Exacerbations. <i>Chest</i> , 2019, 156, 269-276.	0.8	36
32	Obstructive sleep apnoea and quality of life in Ehlers-Danlos syndrome: a parallel cohort study. <i>Thorax</i> , 2017, 72, 729-735.	5.6	35
33	Comprehensive Real-Time Analysis of the Yeast Volatilome. <i>Scientific Reports</i> , 2017, 7, 14236.	3.3	34
34	Secondary electrospray ionization proceeds via gas-phase chemical ionization. <i>Analytical Methods</i> , 2017, 9, 5052-5057.	2.7	34
35	Translating secondary electrospray ionizationâ€“high-resolution mass spectrometry to the clinical environment. <i>Journal of Breath Research</i> , 2018, 12, 027113.	3.0	33
36	Numerical modeling and experimental validation of a universal secondary electrospray ionization source for mass spectrometric gas analysis in real-time. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 217-225.	7.8	32

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37	Separation of isomers L-alanine and sarcosine in urine by electrospray ionization and tandem differential mobility analysis-mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1129-1132.	2.8	30
38	Detection and Quantification of Benzothiazoles in Exhaled Breath and Exhaled Breath Condensate by Real-Time Secondary Electrospray Ionization-High-Resolution Mass Spectrometry and Ultra-High Performance Liquid Chromatography. <i>Environmental Science & Technology</i> , 2015, 49, 12519-12524.	10.0	30
39	Mass spectrometric study of cutaneous volatiles by secondary electrospray ionization. <i>International Journal of Mass Spectrometry</i> , 2009, 282, 128-132.	1.5	28
40	Differentiation of oral bacteria in in vitro cultures and human saliva by secondary electrospray ionization mass spectrometry. <i>Scientific Reports</i> , 2015, 5, 15163.	3.3	28
41	Metabolic effects of inhaled salbutamol determined by exhaled breath analysis. <i>Journal of Breath Research</i> , 2017, 11, 046004.	3.0	28
42	Resolution improvements of a nano-DMA operating transonically. <i>Journal of Aerosol Science</i> , 2006, 37, 500-512.	3.8	27
43	Rapid and reversible control of human metabolism by individual sleep states. <i>Cell Reports</i> , 2021, 37, 109903.	6.4	27
44	Gauging circadian variation in ketamine metabolism by real-time breath analysis. <i>Chemical Communications</i> , 2017, 53, 2264-2267.	4.1	26
45	Secondary electrospray ionization-mass spectrometry and a novel statistical bioinformatic approach identifies a cancer-related profile in exhaled breath of breast cancer patients: a pilot study. <i>Journal of Breath Research</i> , 2015, 9, 031001.	3.0	25
46	Secondary electrospray ionization coupled to high-resolution mass spectrometry reveals tryptophan pathway metabolites in exhaled human breath. <i>Chemical Communications</i> , 2016, 52, 8526-8528.	4.1	25
47	Capturing in Vivo Plant Metabolism by Real-Time Analysis of Low to High Molecular Weight Volatiles. <i>Analytical Chemistry</i> , 2016, 88, 2406-2412.	6.5	25
48	Real-Time Chemical Analysis of Cigarette Aerosols By Means Of Secondary Electrospray Ionization Mass Spectrometry. <i>Chemistry - A European Journal</i> , 2016, 22, 2452-2457.	3.3	24
49	Coronary Artery Calcification, Epicardial Fat Burden, and Cardiovascular Events in Chronic Obstructive Pulmonary Disease. <i>PLoS ONE</i> , 2015, 10, e0126613.	2.5	23
50	Real-time breath analysis with active capillary plasma ionization-ambient mass spectrometry. <i>Journal of Breath Research</i> , 2014, 8, 027102.	3.0	22
51	Real-time detection of chemical warfare agent simulants in forensic samples using active capillary plasma ionization with benchtop and field-deployable mass spectrometers. <i>Analytical Methods</i> , 2014, 6, 3604.	2.7	21
52	Sedation during bronchoscopy: data from a nationwide sedation and monitoring survey. <i>BMC Pulmonary Medicine</i> , 2016, 16, 113.	2.0	21
53	Real-time exhaled breath analysis in patients with cystic fibrosis and controls. <i>Journal of Breath Research</i> , 2018, 12, 036013.	3.0	21
54	Increased Impact of Air Pollution on Lung Function in Preterm versus Term Infants: The BILD Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 99-107.	5.6	21

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55	Mass spectrometry fingerprinting coupled to National Institute of Standards and Technology Mass Spectral search algorithm for pattern recognition. <i>Analytica Chimica Acta</i> , 2012, 755, 28-36.	5.4	20
56	Fingerprinting Breast Cancer vs. Normal Mammary Cells by Mass Spectrometric Analysis of Volatiles. <i>Scientific Reports</i> , 2014, 4, 5196.	3.3	20
57	Effects of suboptimal adherence of CPAP therapy on symptoms of obstructive sleep apnoea: a randomised, double-blind, controlled trial. <i>European Respiratory Journal</i> , 2020, 55, 1901526.	6.7	19
58	Monitoring peppermint washout in the breath metabolome by secondary electrospray ionization-high resolution mass spectrometry. <i>Journal of Breath Research</i> , 2021, 15, 026003.	3.0	19
59	Real-time breath analysis of exhaled compounds upon peppermint oil ingestion by secondary electrospray ionization-high resolution mass spectrometry: technical aspects. <i>Journal of Breath Research</i> , 2020, 14, 046001.	3.0	19
60	The peppermint breath test: a benchmarking protocol for breath sampling and analysis using GC-MS. <i>Journal of Breath Research</i> , 2021, 15, 026006.	3.0	19
61	Low repeatability of Epworth Sleepiness Scale after short intervals in a sleep clinic population. <i>Journal of Clinical Sleep Medicine</i> , 2020, 16, 757-764.	2.6	19
62	Ion Mobility Spectrometry Coupled to Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2013, 85, 39-43.	6.5	17
63	Personalised therapeutic management of epileptic patients guided by pathway-driven breath metabolomics. <i>Communications Medicine</i> , 2021, 1, .	4.2	16
64	Quantification of volatile organic compounds by secondary electrospray ionization-high resolution mass spectrometry. <i>Analytica Chimica Acta</i> , 2021, 1180, 338876.	5.4	15
65	Rapid fingerprinting of grape volatile composition using secondary electrospray ionization orbitrap mass spectrometry: A preliminary study of grape ripening. <i>Food Control</i> , 2017, 81, 107-112.	5.5	14
66	Validation of breath biomarkers for obstructive sleep apnea. <i>Sleep Medicine</i> , 2021, 85, 75-86.	1.6	14
67	MALDI-MS-NIST library approach for colorectal cancer diagnosis. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2839-2845.	1.5	13
68	Simulated Obstructive Sleep Apnea Increases P-Wave Duration and P-Wave Dispersion. <i>PLoS ONE</i> , 2016, 11, e0152994.	2.5	13
69	Noninvasive strategies for breast cancer early detection. <i>Future Oncology</i> , 2016, 12, 1395-1411.	2.4	13
70	Endocrine responses during CPAP withdrawal in obstructive sleep apnoea: data from two randomised controlled trials. <i>Thorax</i> , 2019, 74, 1102-1105.	5.6	13
71	The Accuracy of Repeated Sleep Studies in OSA. <i>Chest</i> , 2021, 159, 1222-1231.	0.8	13
72	Online Real-Time Monitoring of Exhaled Breath Particles Reveals Unnoticed Transport of Nonvolatile Drugs from Blood to Breath. <i>Analytical Chemistry</i> , 2021, 93, 5005-5008.	6.5	13

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73	Rapid identification of bacteria in blood cultures by mass-spectrometric analysis of volatiles. <i>Journal of Clinical Pathology</i> , 2014, 67, 743-746.	2.0	12
74	Obstructive Sleep Apnoea in Children and Adolescents with Ehlers-Danlos Syndrome. <i>Respiration</i> , 2019, 97, 284-291.	2.6	12
75	Effect of Acoustic Radiation on DMA Resolution. <i>Aerosol Science and Technology</i> , 2005, 39, 866-870.	3.1	11
76	An experimental and numerical study of a miniature high resolution isopotential DMA. <i>Journal of Aerosol Science</i> , 2009, 40, 451-462.	3.8	11
77	Quantification of epicardial and intrathoracic fat volume does not provide an added prognostic value as an adjunct to coronary artery calcium score and myocardial perfusion single-photon emission computed tomography. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 885-891.	1.2	11
78	Experimental tests of a nano-DMA with no voltage change between aerosol inlet and outlet slits. <i>Journal of Aerosol Science</i> , 2006, 37, 1629-1642.	3.8	10
79	Prevalence of Obstructive Sleep Apnea in Patients with Thoracic Aortic Aneurysm: A Prospective, Parallel Cohort Study. <i>Respiration</i> , 2020, 99, 19-27.	2.6	10
80	BAY 2253651 for the treatment of obstructive sleep apnoea: a multicentre, double-blind, randomised controlled trial (SANDMAN). <i>European Respiratory Journal</i> , 2021, 58, 2101937.	6.7	10
81	Differential mobility analysis-mass spectrometry coupled to XCMS algorithm as a novel analytical platform for metabolic profiling. <i>Metabolomics</i> , 2013, 9, 30-43.	3.0	9
82	Quantification of intrathoracic fat adds prognostic value in women undergoing myocardial perfusion imaging. <i>International Journal of Cardiology</i> , 2019, 292, 258-264.	1.7	9
83	Obstructive sleep apnoea and the progression of thoracic aortic aneurysm: a prospective cohort study. <i>European Respiratory Journal</i> , 2021, 57, 2003322.	6.7	7
84	Combination of Exhaled Breath Analysis with Parallel Lung Function and FeNO Measurements in Infants. <i>Analytical Chemistry</i> , 2021, 93, 15579-15583.	6.5	7
85	Real-time pharmacokinetics via online analysis of exhaled breath. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 205, 114311.	2.8	6
86	Ion mobility spectrometry coupled to laser-induced fluorescence for probing the electronic structure and conformation of gas-phase ions. <i>Journal of Analytical Chemistry</i> , 2014, 69, 1215-1219.	0.9	5
87	Impact of hypertension on cerebral microvascular structure in CPAP-treated obstructive sleep apnoea patients: a diffusion magnetic resonance imaging study. <i>Neuroradiology</i> , 2019, 61, 1437-1445.	2.2	5
88	Patterns of nightly CPAP usage in OSA patients with suboptimal treatment adherence. <i>Sleep Medicine</i> , 2020, 74, 109-115.	1.6	5
89	Obstructive sleep apnea and quality of life in Fabry disease: a prospective parallel cohort study. <i>Sleep and Breathing</i> , 2020, 24, 95-101.	1.7	4
90	Increased augmentation index in patients with Ehlers-Danlos syndrome. <i>BMC Cardiovascular Disorders</i> , 2020, 20, 417.	1.7	4

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91	Low repeatability of Epworth Sleepiness Scale after short intervals in a sleep clinic population and the need for adequate sleepiness assessment in research and clinical settings. <i>Journal of Clinical Sleep Medicine</i> , 2020, 16, 1829-1830.	2.6	3
92	<i>In vivo</i> monitoring of volatile metabolic trajectories enables rapid diagnosis of influenza A infection. <i>Chemical Communications</i> , 2021, 57, 4791-4794.	4.1	3
93	Real-Time Monitoring of Metabolism during Exercise by Exhaled Breath. <i>Metabolites</i> , 2021, 11, 856.	2.9	3
94	119 Exhaled breath analysis by real-time mass spectrometry in patients with pulmonary fibrosis. <i>Chest</i> , 2017, 151, A16.	0.8	2
95	Effect of continuous positive airway pressure therapy on circadian patterns of cardiac repolarization in patients with obstructive sleep apnoea: data from a randomized trial. <i>Journal of Thoracic Disease</i> , 2018, 10, 4940-4948.	1.4	2
96	P149 Targeted on-line breath analysis discriminates COPD patients vs. healthy controls and subjects suffering from asthma. <i>Chest</i> , 2017, 151, A46-A47.	0.8	2
97	P205 Real-time exhaled breath analysis identifies altered metabolic signature in cystic fibrosis. <i>Chest</i> , 2017, 151, A104.	0.8	1
98	110 On-line breath analysis with secondary electrospray ionization discriminates between COPD patients with and without frequent exacerbations. <i>Chest</i> , 2017, 151, A5.	0.8	1
99	Circadian Metabolomics from Breath. <i>Methods in Molecular Biology</i> , 2021, 2130, 149-156.	0.9	1
100	In vivo detection of metabolic 2H-incorporation upon ingestion of 2H2O. <i>Journal of Bio-X Research</i> , 2022, 5, 81-89.	0.2	1
101	A NANO-DMA WITH NO VOLTAGE CHANGE BETWEEN INLET AND OUTLET. <i>Journal of Aerosol Science</i> , 2004, 35, S751-S752.	3.8	0
102	Mass Spectrometry Research at the Laboratory for Organic Chemistry, ETH Zurich. <i>Chimia</i> , 2014, 68, 119.	0.6	0
103	Real Time Read-Out of Plant Metabolism. <i>Chimia</i> , 2016, 70, 660-660.	0.6	0
104	The effect of CPAP withdrawal on exhaled breath in OSA – A randomised controlled trial. , 2015, , .		0
105	Real-time determination of slightly volatile amino acids in the exhalome by secondary electrospray ionization. A proof-of-principle study. , 2016, , .		0