Fabio Di Francesco

List of Publications by Year
in descending order

130	3,718	159358	161609
papers	citations	30 h-index	54 g-index

134	134	134	4760
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	BIOTEXâ€"Biosensing Textiles for Personalised Healthcare Management. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 364-370.	3.6	274
2	Breath analysis: trends in techniques and clinical applications. Microchemical Journal, 2005, 79, 405-410.	2.3	178
3	Saliva sampling: Methods and devices. An overview. TrAC - Trends in Analytical Chemistry, 2020, 124, 115781.	5.8	149
4	Three-Dimensional (3D) Laser-Induced Graphene: Structure, Properties, and Application to Chemical Sensing. ACS Applied Materials & Interfaces, 2021, 13, 30245-30260.	4.0	128
5	Release of harmful volatile organic compounds (VOCs) from photo-degraded plastic debris: A neglected source of environmental pollution. Journal of Hazardous Materials, 2020, 394, 122596.	6.5	118
6	Graphene-based devices for measuring pH. Sensors and Actuators B: Chemical, 2018, 256, 976-991.	4.0	111
7	A Wearable Sensor for Measuring Sweat Rate. IEEE Sensors Journal, 2010, 10, 1557-1558.	2.4	110
8	Water sorption by anhydrous ionic liquids. Green Chemistry, 2011, 13, 1712.	4.6	102
9	A temperature sensor based on a MWCNT/SEBS nanocomposite. Sensors and Actuators A: Physical, 2012, 178, 94-99.	2.0	101
10	Temperature and pH sensors based on graphenic materials. Biosensors and Bioelectronics, 2017, 91, 870-877.	5.3	83
11	Sensors and Biosensors for C-Reactive Protein, Temperature and pH, and Their Applications for Monitoring Wound Healing: A Review. Sensors, 2017, 17, 2952.	2.1	81
12	Electrochemical biosensor platform for TNF-Î± cytokines detection in both artificial and human saliva: Heart failure. Sensors and Actuators B: Chemical, 2017, 251, 1026-1033.	4.0	75
13	Exposure to Di-2-Ethylhexyl Phthalate, Di-N-Butyl Phthalate and Bisphenol A through Infant Formulas. Journal of Agricultural and Food Chemistry, 2015, 63, 3303-3310.	2.4	68
14	Advances in biosensing: The CRISPR/Cas system as a new powerful tool for the detection of nucleic acids. Journal of Pharmaceutical and Biomedical Analysis, 2021, 192, 113645.	1.4	63
15	Comparison of sampling bags for the analysis of volatile organic compounds in breath. Journal of Breath Research, 2015, 9, 047110.	1.5	59
16	A composite sensor array impedentiometric electronic tonguePart I. Characterization. Biosensors and Bioelectronics, 2007, 22, 2618-2623.	5.3	58
17	The role of biomedical sensors in wound healing. Wound Medicine, 2015, 8, 15-18.	2.7	58
18	An electronic nose for odour annoyance assessment. Atmospheric Environment, 2001, 35, 1225-1234.	1.9	55

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19	Temperature- and pH-sensitive wearable materials for monitoring foot ulcers. International Journal of Nanomedicine, 2017, Volume 12, 949-954.	3.3	53
20	Determination of volatile organic compounds in exhaled breath of heart failure patients by needle trap micro-extraction coupled with gas chromatography-tandem mass spectrometry. Journal of Breath Research, 2017, 11, 047110.	1.5	50
21	Correlation Between Wound Temperature Obtained With an Infrared Camera and Clinical Wound Bed Score in Venous Leg Ulcers. Wounds, 2015, 27, 274-8.	0.2	50
22	A composite sensor array impedentiometric electronic tonguePart II. Discrimination of basic tastes. Biosensors and Bioelectronics, 2007, 22, 2624-2628.	5.3	47
23	Poly(alkoxy-bithiophenes) sensors for organic vapours. Sensors and Actuators B: Chemical, 2003, 88, 178-189.	4.0	45
24	A benchmarking protocol for breath analysis: the peppermint experiment. Journal of Breath Research, 2020, 14, 046008.	1.5	41
25	A new polystyrene-based ionomer/MWCNT nanocomposite for wearable skin temperature sensors. Reactive and Functional Polymers, 2014, 76, 57-62.	2.0	40
26	Factors affecting the dispersion of MWCNTs in electrically conducting SEBS nanocomposites. European Polymer Journal, 2013, 49, 1471-1478.	2.6	39
27	Determination of salivary Î±-amylase and cortisol in psoriatic subjects undergoing the Trier Social Stress Test. Microchemical Journal, 2018, 136, 177-184.	2.3	38
28	The effect of sampling procedures on the urate and lactate concentration in oral fluid. Microchemical Journal, 2018, 136, 255-262.	2.3	37
29	Implementation of Fowler's method for end-tidal air sampling. Journal of Breath Research, 2008, 2, 037009.	1.5	36
30	Measurement of Warfarin in the Oral Fluid of Patients Undergoing Anticoagulant Oral Therapy. PLoS ONE, 2011, 6, e28182.	1.1	33
31	Recent Advances in Optical, Electrochemical and Field Effect pH Sensors. Chemosensors, 2021, 9, 33.	1.8	33
32	A measurement system for odor classification based on the dynamic response of QCM sensors. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 1079-1086.	2.4	32
33	Textile sensors to measure sweat pH and sweat-rate during exercise. , 2009, , .		32
34	Monitoring breath during oral glucose tolerance tests. Journal of Breath Research, 2013, 7, 017115.	1.5	32
35	Determination of total and unbound warfarin and warfarin alcohols in human plasma by high performance liquid chromatography with fluorescence detection. Journal of Chromatography A, 2013, 1314, 54-62.	1.8	31
36	Biosensors for measuring matrix metalloproteinases: An emerging research field. TrAC - Trends in Analytical Chemistry, 2019, 110, 35-50.	5.8	31

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37	A temperature-sensitive RFID tag for the identification of cold chain failures. Sensors and Actuators A: Physical, 2020, 313, 112182.	2.0	31
38	A label-free impedance biosensing assay based on CRISPR/Cas12a collateral activity for bacterial DNA detection. Journal of Pharmaceutical and Biomedical Analysis, 2021, 204, 114268.	1.4	31
39	Selective use of extended criteria deceased liver donors with anatomic variations. Annals of Transplantation, 2012, 17, 140-143.	0.5	31
40	Room temperature amine sensors enabled by sidewall functionalization of single-walled carbon nanotubes. RSC Advances, 2018, 8, 5578-5585.	1.7	30
41	A wearable sweat rate sensor to monitor the athletesâ€™ performance during training. Science and Sports, 2018, 33, e51-e58.	0.2	30
42	Fluid dynamic simulation of a measurement chamber for electronic noses. Sensors and Actuators B: Chemical, 2002, 85, 166-174.	4.0	29
43	Surgical Management of Complex Liver Trauma: A Single Liver Transplant Center Experience. American Surgeon, 2012, 78, 20-25.	0.4	29
44	Determination of sevoflurane and isopropyl alcohol in exhaled breath by thermal desorption gas chromatographyâ€“mass spectrometry for exposure assessment of hospital staff. Journal of Pharmaceutical and Biomedical Analysis, 2015, 106, 218-223.	1.4	29
45	The novel Mechanical Ventilator Milano for the COVID-19 pandemic. Physics of Fluids, 2021, 33, 037122.	1.6	29
46	A voltammetric pH sensor for food and biological matrices. Sensors and Actuators B: Chemical, 2020, 322, 128650.	4.0	28
47	Splitting livers: Transâ€hilar or transâ€umbilical division? Technical aspects and comparative outcomes. Pediatric Transplantation, 2015, 19, 517-526.	0.5	27
48	Microbial biofilm monitoring by electrochemical transduction methods. TrAC - Trends in Analytical Chemistry, 2021, 134, 116134.	5.8	25
49	Influence of Sampling on the Determination of Warfarin and Warfarin Alcohols in Oral Fluid. PLoS ONE, 2014, 9, e114430.	1.1	25
50	Ionic liquids as selective depositions on quartz crystal microbalances for artificial olfactory systemsâ€”a feasibility study. Microchemical Journal, 2007, 85, 52-56.	2.3	24
51	Post-operative elimination of sevoflurane anesthetic and hexafluoroisopropanol metabolite in exhaled breath: pharmacokinetic models for assessing liver function. Journal of Breath Research, 2013, 7, 036001.	1.5	23
52	Highly Sensitive Electrochemical BioMEMS for TNF-Î± Detection in Humansaliva: Heart Failure. Procedia Engineering, 2016, 168, 97-100.	1.2	23
53	Latest developments in non-faradic impedimetric biosensors: Towards clinical applications. TrAC - Trends in Analytical Chemistry, 2020, 133, 116073.	5.8	23
54	Salivary lactate and 8-isoprostaglandin F2Î± as potential non-invasive biomarkers for monitoring heart failure: a pilot study. Scientific Reports, 2020, 10, 7441.	1.6	23

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55	Monitoring of warfarin therapy: Preliminary results from a longitudinal pilot study. Microchemical Journal, 2018, 136, 170-176.	2.3	22
56	Using labelled internal standards to improve needle trap micro-extraction technique prior to gas chromatography/mass spectrometry. Talanta, 2019, 200, 145-155.	2.9	22
57	A dual mode breath sampler for the collection of the end-tidal and dead space fractions. Medical Engineering and Physics, 2015, 37, 539-544.	0.8	21
58	Bisphenol A contamination in soft drinks as a risk for childrenâ€™s health in Italy. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2015, 32, 1207-1214.	1.1	21
59	Micro-extraction by packed sorbent combined with UHPLC-ESI-MS/MS for the determination of prostanoids and isoprostanoids in dried blood spots. Talanta, 2020, 206, 120236.	2.9	21
60	A graphenic and potentiometric sensor for monitoring the growth of bacterial biofilms. Sensors and Actuators B: Chemical, 2020, 323, 128662.	4.0	21
61	Remote monitoring of seawater temperature and pH by low cost sensors. Microchemical Journal, 2019, 148, 248-252.	2.3	20
62	A Graphenic Biosensor for Real-Time Monitoring of Urea During Dialysis. IEEE Sensors Journal, 2020, 20, 4571-4578.	2.4	20
63	Saliva as a non-invasive tool for monitoring oxidative stress in swimmers athletes performing a VO2max cycle ergometer test. Talanta, 2020, 216, 120979.	2.9	20
64	A radially symmetric measurement chamber for electronic noses. Sensors and Actuators B: Chemical, 2005, 105, 295-303.	4.0	19
65	Characterization of a carbon nanotube polymer composite sensor for an impedimetric electronic tongue. Mikrochimica Acta, 2008, 163, 57-62.	2.5	19
66	A graphene oxide pH sensor for wound monitoring. , 2016, 2016, 1898-1901.		19
67	The peppermint breath test: a benchmarking protocol for breath sampling and analysis using GCâ€“MS. Journal of Breath Research, 2021, 15, 026006.	1.5	19
68	Assessment of bioinspired models for pattern recognition in biomimetic systems. Bioinspiration and Biomimetics, 2008, 3, 016004.	1.5	18
69	Aggressive prevention and preemptive management of vascular complications after pediatric liver transplantation: A major impact on graft survival and longâ€term outcome. Pediatric Transplantation, 2018, 22, e13288.	0.5	18
70	Determination of carbonyl compounds in exhaled breath by on-sorbent derivatization coupled with thermal desorption and gas chromatography-tandem mass spectrometry. Journal of Breath Research, 2018, 12, 046004.	1.5	17
71	Determination and stability of N-terminal pro-brain natriuretic peptide in saliva samples for monitoring heart failure. Scientific Reports, 2021, 11, 13088.	1.6	17
72	MS-based targeted profiling of oxylipins in COVID-19: A new insight into inflammation regulation. Free Radical Biology and Medicine, 2022, 180, 236-243.	1.3	17

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73	Pressure mapping with textile sensors for compression therapy monitoring. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 795-808.	1.0	16
74	Effects of thermal annealing on SEBS/MWCNTs temperature-sensitive nanocomposites for the measurement of skin temperature. Materials Chemistry and Physics, 2017, 186, 456-461.	2.0	15
75	The peppermint breath test benchmark for PTR-MS and SIFT-MS. Journal of Breath Research, 2021, 15, 046005.	1.5	15
76	MWCNT/perylene bisimide water dispersions for miniaturized temperature sensors. RSC Advances, 2015, 5, 65023-65029.	1.7	13
77	Skin temperature monitoring by a wireless sensor. , 2011, , .		12
78	Stability of volatile organic compounds in sorbent tubes following SARS-CoV-2 inactivation procedures. Journal of Breath Research, 2021, 15, 037102.	1.5	12
79	Automatic recognition of pleasant content of odours through ElectroEncephaloGraphic activity analysis. , 2016, 2016, 4519-4522.		11
80	A breath sampling system assessing the influence of respiratory rate on exhaled breath composition. , 2015, 2015, 7618-21.		10
81	Biosensors for Detecting Lymphocytes and Immunoglobulins. Biosensors, 2020, 10, 155.	2.3	10
82	Effects of long-term vegan diet on breath composition. Journal of Breath Research, 2022, 16, 026004.	1.5	10
83	A Programmable Electrochemical Yâ€Shaped DNA Scaffold Sensor for the Singleâ€Step Detection of Antibodies and Proteins in Untreated Biological Fluids. Advanced Functional Materials, 2022, 32, .	7.8	10
84	Fluorinated vs. Zwitterionic-Polymer Grafted Surfaces for Adhesion Prevention of the Fungal Pathogen Candida albicans. Polymers, 2020, 12, 398.	2.0	9
85	Photodegradation of Polychlorinated Dibenzo-p-dioxins in Liquid Samples by Near UV Light Irradiation. Microchemical Journal, 1996, 54, 331-337.	2.3	8
86	A neural approach for improving the measurement capability of an electronic nose. Measurement Science and Technology, 2003, 14, 815-821.	1.4	8
87	A high-performance measurement system for simultaneous mass and resistance variation measurements on gas sensing polymer films. Sensors and Actuators B: Chemical, 2005, 111-112, 193-199.	4.0	8
88	Towards a Real-Time Transduction and Classification of Chemoresistive Sensor Array Signals. IEEE Sensors Journal, 2007, 7, 237-244.	2.4	8
89	Uric acid is the major determinant of absorbance in spent dialysate allowing spectrophotometric evaluation of dialysis dose. Journal of Nephrology, 2013, 27, 331-7.	0.9	8
90	A paradigm shift in the intentionâ€toâ€transplant children with biliary atresia: Outcomes of 101 cases and a review of the literature. Pediatric Transplantation, 2019, 23, e13569.	0.5	8

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91	A graphene-based pH sensor on paper for human plasma and seawater. , 2019, 2019, 1563-1566.		8
92	Two ways of using a chamber for mercury flux measurementâ€"A simple mathematical approach. Science of the Total Environment, 1998, 213, 33-41.	3.9	7
93	Potential correlation of wound bed score and biomarkers in chronic lower leg wounds: an exploratory study. Journal of Wound Care, 2017, 26, S9-S17.	0.5	7
94	A Biosensor for the Detection of Acetylcholine and Diazinon. , 2019, 2019, 1159-1162.		7
95	A New Smart-Fabric based Body Area Sensor Network for Work Risk Assessment. , 2020, , .		7
96	Biphenyl substituted lysine derivatives as recognition elements for the matrix metalloproteinases MMP-2 and MMP-9. Bioorganic Chemistry, 2021, 115, 105155.	2.0	7
97	The Mediterranean Diet Positively Affects Resting Metabolic Rate and Salivary Microbiota in Human Subjects: A Comparison with the Vegan Regimen. Biology, 2021, 10, 1292.	1.3	7
98	Determination of warfarin and warfarin alcohols in dried blood spots by ultra-high performance liquid chromatography coupled to electrospray ionization-tandem mass spectrometry (UHPLC-ESI-MS/MS). Microchemical Journal, 2018, 136, 247-254.	2.3	6
99	SWAN-iCare: A smart wearable and autonomous negative pressure device for wound monitoring and therapy. , 2013, , .		5
100	A D-optimal design to model the performances of dressings and devices for negative pressure wound therapy. Journal of Tissue Viability, 2016, 25, 83-90.	0.9	5
101	OxInflammation at High Altitudes: A Proof of Concept from the Himalayas. Antioxidants, 2022, 11, 368.	2.2	5
102	Gender-specific automatic valence recognition of affective olfactory stimulation through the analysis of the electrodermal activity. , 2016, 2016, 399-402.		4
103	A radially symmetric measurement chamber for electronic noses. Sensors and Actuators B: Chemical, 2005, 105, 295-303.	4.0	3
104	Extracorporeal dialysis: techniques and adequacy. Nephrology Dialysis Transplantation, 2012, 27, ii197-ii226.	0.4	3
105	Rouxâ€enâ€<scp>Y h</scp>epaticoâ€jejunostomy for a left segmental graft: Do not twist the loop, stick it!. Pediatric Transplantation, 2015, 19, 358-365.	0.5	3
106	Instantaneous Assessment of Hedonic Olfactory Perception Using Heartbeat Nonlinear Dynamics: a Preliminary Study. , 2017, , .		3
107	Variability of Care and Access to Transplantation for Children with Biliary Atresia Who Need a Liver Replacement. Journal of Clinical Medicine, 2022, 11, 2142.	1.0	3
108	A processing architecture for associative short-term memory in electronic noses. Measurement Science and Technology, 2006, 17, 3066-3072.	1.4	2

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109	The Removal of Î²2-Microglobulin in Spent Dialysate Cannot Be Monitored by Spectrophotometric Analysis. Blood Purification, 2015, 40, 109-112.	0.9	2
110	Investigating complex cardiovascular dynamics during hedonic olfactory elicitation. , 2020, , .		2
111	Multiphysics Modeling of a Wearable Sensor for Sweat Rate Measurements. , 2020, , .		2
112	Determination of peppermint compounds in breath by needle trap micro-extraction coupled with gas chromatographyâ€“tandem mass spectrometry. Journal of Breath Research, 2021, 15, 016014.	1.5	2
113	Methodological aspects of dried blood spot sampling for the determination of isoprostanoids and prostanoids. Microchemical Journal, 2022, 175, 107212.	2.3	2
114	Human-like android face equipped with EAP artificial muscles to endow expressivity. , 2001, 4329, 350.		1
115	<title>Importance of nonverbal expression to the emergence of emotive artificial intelligence systems</title>. , 2002, 4695, 403.		1
116	Preparation and characterization of conducting chemo-sensitive layers based on alkoxy-substituted polythiophenes. Measurement Science and Technology, 2006, 17, 3265-3271.	1.4	1
117	Tuning of the freezing and melting points of [Hmim][NO3] by the addition of water and nitrate salts. RSC Advances, 2014, 4, 40407-40413.	1.7	1
118	A preliminary presentation of a mobile co-operative platform for Heart Failure self-management. , 2015, , .		1
119	SNIFFER: an electronic nose. , 0, , .		0
120	Integration of dense membranes and metal-oxide semiconductors for improved performance of a dedicated artificial olfactory system. Desalination, 2006, 199, 393-394.	4.0	0
121	Development of a CO<inf>2</inf> triggered alveolar air sampler. , 2007, , .		0
122	Use of Functional Magnetic Resonance Imaging (fMRI) for the investigation of the Human Olfactory System. , 2007, , .		0
123	C0513: A Non-Invasive Approach for Monitoring Patients Undergoing Anticoagulant Therapy. Thrombosis Research, 2014, 133, S89-S90.	0.8	0
124	576 Correlation beetwen wound bed score and biochemical and histochemical parameters in chronic wounds. Journal of Investigative Dermatology, 2016, 136, S259.	0.3	0
125	A sampler prototype for the simultaneous collection of exhaled air and breath condensate. , 2019, 2019, 2226-2229.		0
126	A FFT PREPROCESSING ALGORITHM TO IMPROVE THE REPRODUCIBILITY OF GAS SENSORS SIGNALS. , 2000, , .		0

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127	EFFECT OF TEMPERATURE ON THE RECOGNITION PROPERTIES OF A CP-BASED ELECTRONIC NOSE. , 2000, , .		0
128	Use of the dynamic response of QCM sensors to detect CO in presence of interferents. , 2003, , .		0
129	DEVELOPMENT OF AN IMPEDENTIOMETRIC ELECTRONIC TONGUE. , 2004, , .		0
130	DEVELOPMENT OF A SOLID STATE ANALYZER FOR BREATH ANALYSIS. , 2008, , .		0