

Francis Tsow

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

764
citations

687363

13
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

991
citing authors

#	ARTICLE	IF	CITATIONS
1	Noncontact Physiological Measurement Using a Camera: A Technical Review and Future Directions. ACS Sensors, 2021, 6, 321-334.	7.8	17
2	Real-Time Simultaneous Separation and Detection of Chemicals Using Integrated Microcolumn and Surface Plasmon Resonance Imaging Micro-GC. IEEE Sensors Journal, 2018, 18, 1351-1357.	4.7	6
3	Tracking Personal Health-Environment Interaction with Novel Mobile Sensing Devices. Sensors, 2018, 18, 2670.	3.8	6
4	A Miniaturized Particulate Matter Sensing Platform Based on CMOS Imager and Real-Time Image Processing. IEEE Sensors Journal, 2018, 18, 7421-7428.	4.7	6
5	Simultaneous Monitoring of Ballistocardiogram and Photoplethysmogram Using a Camera. IEEE Transactions on Biomedical Engineering, 2017, 64, 1003-1010.	4.2	59
6	Noncontact spirometry with a webcam. Journal of Biomedical Optics, 2017, 22, 057002.	2.6	16
7	Adsorption Thermodynamic Analysis of a Quartz Tuning Fork Based Sensor for Volatile Organic Compounds Detection. ACS Sensors, 2017, 2, 1662-1668.	7.8	10
8	Non-Contact Simultaneous Photoplethysmogram and Ballistocardiogram Video Recording towards Real-Time Blood Pressure and Abnormal Heart Rhythm Monitoring. , 2017, , .		8
9	Thermochemical Humidity Detection in Harsh or Non-Steady Environments. Sensors, 2017, 17, 1196.	3.8	2
10	A Novel Wireless Wearable Volatile Organic Compound (VOC) Monitoring Device with Disposable Sensors. Sensors, 2016, 16, 2060.	3.8	19
11	Unraveling fabrication and calibration of wearable gas monitor for use under free-living conditions. , 2016, 2016, 4897-4900.		5
12	A new differential pressure flow meter for measurement of human breath flow: Simulation and experimental investigation. AIChE Journal, 2016, 62, 956-964.	3.6	11
13	Skin Mechanical Properties and Hydration Measured With Mobile Phone Camera. IEEE Sensors Journal, 2016, 16, 924-930.	4.7	8
14	Noncontact Monitoring of Blood Oxygen Saturation Using Camera and Dual-Wavelength Imaging System. IEEE Transactions on Biomedical Engineering, 2016, 63, 1091-1098.	4.2	115
15	Aging effect of a molecularly imprinted polymer on a quartz tuning fork sensor for detection of volatile organic compounds. Sensors and Actuators B: Chemical, 2015, 211, 25-32.	7.8	14
16	Noncontact Monitoring Breathing Pattern, Exhalation Flow Rate and Pulse Transit Time. IEEE Transactions on Biomedical Engineering, 2014, 61, 2760-2767.	4.2	153
17	A pocket-sized metabolic analyzer for assessment of resting energy expenditure. Clinical Nutrition, 2014, 33, 341-347.	5.0	21
18	A Wireless Hybrid Chemical Sensor for Detection of Environmental Volatile Organic Compounds. IEEE Sensors Journal, 2013, 13, 1748-1755.	4.7	61

#	ARTICLE	IF	CITATIONS
19	Force Sensors: Hybrid Mechanoresponsive Polymer Wires Under Force Activation (Adv. Mater. 12/2013). Advanced Materials, 2013, 25, 1658-1658.	21.0	0
20	A Microfluidic-Colorimetric Sensor for Continuous Monitoring of Reactive Environmental Chemicals. IEEE Sensors Journal, 2012, 12, 1529-1535.	4.7	17
21	A new sensor for the assessment of personal exposure to volatile organic compounds. Atmospheric Environment, 2012, 54, 679-687.	4.1	47
22	A Wearable and Wireless Sensor System for Real-Time Monitoring of Toxic Environmental Volatile Organic Compounds. IEEE Sensors Journal, 2009, 9, 1734-1740.	4.7	145
23	Microfabricated tuning fork temperature and infrared sensor. Applied Physics Letters, 2007, 90, 174102.	3.3	18