

Francis Tsow

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

764
citations

687363

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h-index

752698

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23
all docs

23
docs citations

23
times ranked

991
citing authors

#	ARTICLE	IF	CITATIONS
1	Noncontact Monitoring Breathing Pattern, Exhalation Flow Rate and Pulse Transit Time. IEEE Transactions on Biomedical Engineering, 2014, 61, 2760-2767.	4.2	153
2	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
3	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
4	A Wireless Hybrid Chemical Sensor for Detection of Environmental Volatile Organic Compounds. IEEE Sensors Journal, 2013, 13, 1748-1755.	4.7	61
5	Simultaneous Monitoring of Ballistocardiogram and Photoplethysmogram Using a Camera. IEEE Transactions on Biomedical Engineering, 2017, 64, 1003-1010.	4.2	59
6	A new sensor for the assessment of personal exposure to volatile organic compounds. Atmospheric Environment, 2012, 54, 679-687.	4.1	47
7	A pocket-sized metabolic analyzer for assessment of resting energy expenditure. Clinical Nutrition, 2014, 33, 341-347.	5.0	21
8	A Novel Wireless Wearable Volatile Organic Compound (VOC) Monitoring Device with Disposable Sensors. Sensors, 2016, 16, 2060.	3.8	19
9	Microfabricated tuning fork temperature and infrared sensor. Applied Physics Letters, 2007, 90, 174102.	3.3	18
10	A Microfluidic-Colorimetric Sensor for Continuous Monitoring of Reactive Environmental Chemicals. IEEE Sensors Journal, 2012, 12, 1529-1535.	4.7	17
11	Noncontact Physiological Measurement Using a Camera: A Technical Review and Future Directions. ACS Sensors, 2021, 6, 321-334.	7.8	17
12	Noncontact spirometry with a webcam. Journal of Biomedical Optics, 2017, 22, 057002.	2.6	16
13	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
14	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
15	Adsorption Thermodynamic Analysis of a Quartz Tuning Fork Based Sensor for Volatile Organic Compounds Detection. ACS Sensors, 2017, 2, 1662-1668.	7.8	10
16	Skin Mechanical Properties and Hydration Measured With Mobile Phone Camera. IEEE Sensors Journal, 2016, 16, 924-930.	4.7	8
17	Non-Contact Simultaneous Photoplethysmogram and Ballistocardiogram Video Recording towards Real-Time Blood Pressure and Abnormal Heart Rhythm Monitoring. , 2017, , .		8
18	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

#	ARTICLE	IF	CITATIONS
19	Tracking Personal Health-Environment Interaction with Novel Mobile Sensing Devices. Sensors, 2018, 18, 2670.	3.8	6
20	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
21	Unraveling fabrication and calibration of wearable gas monitor for use under free-living conditions. , 2016, 2016, 4897-4900.		5
22	Thermochemical Humidity Detection in Harsh or Non-Steady Environments. Sensors, 2017, 17, 1196.	3.8	2
23	Force Sensors: Hybrid Mechanoresponsive Polymer Wires Under Force Activation (Adv. Mater. 12/2013). Advanced Materials, 2013, 25, 1658-1658.	21.0	0