Erik Schaffernicht

List of Publications by Year
in descending order

17	212	1684188 5	1872680 6
papers	citations	h-index	g-index

18	18	18	248
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ensemble Learning-Based Approach for Gas Detection Using an Electronic Nose in Robotic Applications. Frontiers in Chemistry, 2022, 10, 863838.	3.6	5
2	Semi-supervised Gas Detection Using an Ensemble of One-class Classifiers. , 2019, , .		2
3	Towards Gas Discrimination and Mapping in Emergency Response Scenarios Using a Mobile Robot with an Electronic Nose. Sensors, 2019, 19, 685.	3.8	32
4	FireNose on Mobile Robot in Harsh Environments. IEEE Sensors Journal, 2019, 19, 12418-12431.	4.7	20
5	A cluster analysis approach based on exploiting density peaks for gas discrimination with electronic noses in open environments. Sensors and Actuators B: Chemical, 2018, 259, 183-203.	7.8	26
6	Exploration and localization of a gas source with MOX gas sensors on a mobile robot â€" A Gaussian regression bout amplitude approach. , 2017, , .		11
7	Bayesian gas source localization and exploration with a multi-robot system using partial differential equation based modeling. , 2017, , .		6
8	Improving gas dispersal simulation for mobile robot olfaction: Using robot-created occupancy maps and remote gas sensors in the simulation loop. , 2017, , .		5
9	Mobile robot multi-sensor unit for unsupervised gas discrimination in uncontrolled environments. , 2017, , .		14
10	Improving gas tomography with mobile robots: An evaluation of sensing geometries in complex environments. , 2017, , .		3
11	The right direction to smell: Efficient sensor planning strategies for robot assisted gas tomography. , 2016, , .		7
12	Towards occupational health improvement in foundries through dense dust and pollution monitoring using a complementary approach with mobile and stationary sensing nodes. , 2016, , .		9
13	Unsupervised gas discrimination in uncontrolled environments by exploiting density peaks. , 2016, , .		2
14	Global Coverage Measurement Planning Strategies for Mobile Robots Equipped with a Remote Gas Sensor. Sensors, 2015, 15, 6845-6871.	3.8	13
15	Efficient measurement planning for remote gas sensing with mobile robots. , 2015, , .		10
16	Combining Non Selective Gas Sensors on a Mobile Robot for Identification and Mapping of Multiple Chemical Compounds. Sensors, 2014, 14, 17331-17352.	3.8	31
17	A novel approach for gas discrimination in natural environments with Open Sampling Systems. , 2014, , .		13