James A Covington

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	CMOS Interfacing for Integrated Gas Sensors: A Review. IEEE Sensors Journal, 2010, 10, 1833-1848.	2.4	175
2	Detection of Colorectal Cancer (CRC) by Urinary Volatile Organic Compound Analysis. PLoS ONE, 2014, 9, e108750.	1.1	124
3	Analog VLSI Circuit Implementation of an Adaptive Neuromorphic Olfaction Chip. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 60-73.	0.1	122
4	Review article: next generation diagnostic modalities in gastroenterology – gas phase volatile compound biomarker detection. Alimentary Pharmacology and Therapeutics, 2014, 39, 780-789.	1.9	111
5	Design and simulations of SOI CMOS micro-hotplate gas sensors. Sensors and Actuators B: Chemical, 2001, 78, 180-190.	4.0	105
6	Field-effect mobility temperature modeling of 4H-SiC metal-oxide-semiconductor transistors. Journal of Applied Physics, 2006, 100, 114508.	1.1	105
7	Development and application of a new electronic nose instrument for the detection of colorectal cancer. Biosensors and Bioelectronics, 2015, 67, 733-738.	5.3	104
8	A polymer gate FET sensor array for detecting organic vapours. Sensors and Actuators B: Chemical, 2001, 77, 155-162.	4.0	103
9	Ultrasensitive Detection of Dopamine Using a Carbon Nanotube Network Microfluidic Flow Electrode. Analytical Chemistry, 2013, 85, 163-169.	3.2	102
10	ZnO nanowires grown on SOI CMOS substrate for ethanol sensing. Sensors and Actuators B: Chemical, 2010, 146, 559-565.	4.0	101
11	Pd-doped reduced graphene oxide sensing films for H2 detection. Sensors and Actuators B: Chemical, 2013, 183, 478-487.	4.0	95
12	Novel design and characterisation of SOI CMOS micro-hotplates for high temperature gas sensors. Sensors and Actuators B: Chemical, 2007, 127, 260-266.	4.0	88
13	A miniature flow sensor fabricated by micro-stereolithography employing a magnetite/acrylic nanocomposite resin. Sensors and Actuators A: Physical, 2011, 168, 66-71.	2.0	85
14	Fabrication of Versatile Channel Flow Cells for Quantitative Electroanalysis Using Prototyping. Analytical Chemistry, 2010, 82, 3124-3131.	3.2	77
15	The Interplay of the Gut Microbiome, Bile Acids, and Volatile Organic Compounds. Gastroenterology Research and Practice, 2015, 2015, 1-6.	0.7	72
16	The application of FAIMS gas analysis in medical diagnostics. Analyst, The, 2015, 140, 6775-6781.	1.7	71
17	Combined electronic nose and tongue for a flavour sensing system. Sensors and Actuators B: Chemical, 2011, 156, 832-839.	4.0	69
18	A Novel Tool for Noninvasive Diagnosis and Tracking of Patients with Inflammatory Bowel Disease. Inflammatory Bowel Diseases, 2013, 19, 999-1003.	0.9	68

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19	Micro-gas-sensor with conducting polymers. Sensors and Actuators B: Chemical, 2002, 84, 66-71.	4.0	66
20	Differentiating Coeliac Disease from Irritable Bowel Syndrome by Urinary Volatile Organic Compound Analysis – A Pilot Study. PLoS ONE, 2014, 9, e107312.	1.1	66
21	Application of a Novel Tool for Diagnosing Bile Acid Diarrhoea. Sensors, 2013, 13, 11899-11912.	2.1	65
22	Conducting Nanocomposite Polymer Foams from Iceâ€Crystalâ€Templated Assembly of Mixtures of Colloids. Advanced Materials, 2009, 21, 2894-2898.	11.1	63
23	Characterization and modeling of n-nâ€^Siâ^•SiC heterojunction diodes. Journal of Applied Physics, 2007, 102, .	1.1	58
24	Design and Development of a Low-Cost, Portable Monitoring Device for Indoor Environment Quality. Journal of Sensors, 2018, 2018, 1-14.	0.6	54
25	Noninvasive Diagnosis of Pancreatic Cancer Through DetectionÂof Volatile Organic Compounds in Urine. Gastroenterology, 2018, 154, 485-487.e1.	0.6	53
26	Risk stratification of symptomatic patients suspected of colorectal cancer using faecal and urinary markers. Colorectal Disease, 2018, 20, O335-O342.	0.7	53
27	Non-invasive exhaled volatile organic biomarker analysis to detect inflammatory bowel disease (IBD). Digestive and Liver Disease, 2016, 48, 148-153.	0.4	50
28	The Effect of Film Thickness on the Gas Sensing Properties of Ultra-Thin TiO2 Films Deposited by Atomic Layer Deposition. Sensors, 2018, 18, 735.	2.1	49
29	Insights into â€~fermentonomics': evaluation of volatile organic compounds (VOCs) in human disease using an electronic â€~e-nose'. Journal of Medical Engineering and Technology, 2011, 35, 87-91.	0.8	48
30	Volatile organic compounds (VOCs) for the non-invasive detection of pancreatic cancer from urine. Talanta, 2021, 221, 121604.	2.9	46
31	Artificial Olfaction in the 21 st Century. IEEE Sensors Journal, 2021, 21, 12969-12990.	2.4	46
32	The Detection of Patients at Risk of Gastrointestinal Toxicity during Pelvic Radiotherapy by Electronic Nose and FAIMS: A Pilot Study. Sensors, 2012, 12, 13002-13018.	2.1	45
33	Breath Analysis Using eNose and Ion Mobility Technology to Diagnose Inflammatory Bowel Disease—A Pilot Study. Biosensors, 2019, 9, 55.	2.3	43
34	An electronic nose employing dual-channel odour separation columns with large chemosensor arrays for advanced odour discrimination. Sensors and Actuators B: Chemical, 2009, 141, 134-140.	4.0	40
35	GasFETs incorporating conducting polymers as gate materials. Sensors and Actuators B: Chemical, 2000, 65, 253-256.	4.0	39
36	Non-Invasive Diagnosis of Diabetes by Volatile Organic Compounds in Urine Using FAIMS and Fox4000 Electronic Nose. Biosensors, 2018, 8, 121.	2.3	38

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37	Humidity-Tolerant Ultrathin NiO Gas-Sensing Films. ACS Sensors, 2020, 5, 1389-1397.	4.0	38
38	Early identification of potato storage disease using an array of metal-oxide based gas sensors. Postharvest Biology and Technology, 2016, 116, 50-58.	2.9	37
39	The use of an electronic nose to detect early signs of soft-rot infection in potatoes. Biosystems Engineering, 2018, 167, 137-143.	1.9	37
40	Identifying volatile metabolite signatures for the diagnosis of bacterial respiratory tract infection using electronic nose technology: A pilot study. PLoS ONE, 2017, 12, e0188879.	1.1	36
41	Analysis of Al/Ti, Al/Ni multiple and triple layer contacts to p-type 4H-SiC. Solid-State Electronics, 2007, 51, 797-801.	0.8	35
42	Development of a Compact, IoT-Enabled Electronic Nose for Breath Analysis. Electronics (Switzerland), 2020, 9, 84.	1.8	35
43	A novel, low-cost, portable PID sensor for the detection of volatile organic compounds. Sensors and Actuators B: Chemical, 2018, 275, 10-15.	4.0	34
44	Development of Amino–Oxazoline and Amino–Thiazoline Organic Catalysts for the Ringâ€Opening Polymerisation of Lactide. Chemistry - A European Journal, 2010, 16, 6099-6105.	1.7	33
45	Breath-based non-invasive diagnosis of Alzheimer's disease: a pilot study. Journal of Breath Research, 2020, 14, 026003.	1.5	33
46	Nutrient (C, N and P) enrichment induces significant changes in the soil metabolite profile and microbial carbon partitioning. Soil Biology and Biochemistry, 2022, 172, 108779.	4.2	33
47	Dual electrode micro-channel flow cell for redox titrations: Kinetics and analysis of homogeneous ascorbic acid oxidation. Journal of Electroanalytical Chemistry, 2013, 692, 72-79.	1.9	32
48	A microstereolithography resin based on thiol-ene chemistry: towards biocompatible 3D extracellular constructs for tissue engineering. Biomaterials Science, 2014, 2, 472-475.	2.6	32
49	Faecal volatile organic compounds analysis using field asymmetric ion mobility spectrometry: non-invasive diagnostics in paediatric inflammatory bowel disease. Journal of Breath Research, 2018, 12, 016006.	1.5	32
50	Siâ^•SiC Heterojunctions Fabricated by Direct Wafer Bonding. Electrochemical and Solid-State Letters, 2008, 11, H306.	2.2	31
51	Evaluation of gut bacterial populations using an electronic e-nose and field asymmetric ion mobility spectrometry: further insights into â€~fermentonomics'. Journal of Medical Engineering and Technology, 2012, 36, 333-337.	0.8	31
52	Fabrication of 3-Dimensional Cellular Constructs via Microstereolithography Using a Simple, Three-Component, Poly(Ethylene Glycol) Acrylate-Based System. Biomacromolecules, 2013, 14, 186-192.	2.6	31
53	Detection of Potato Storage Disease via Gas Analysis: A Pilot Study Using Field Asymmetric Ion Mobility Spectrometry. Sensors, 2014, 14, 15939-15952.	2.1	31
54	A simple breath test for tuberculosis using ion mobility: A pilot study. Tuberculosis, 2016, 99, 143-146.	0.8	30

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55	Rapid, Accurate, and On-Site Detection of C. difficile in Stool Samples. American Journal of Gastroenterology, 2015, 110, 588-594.	0.2	29
56	Variation in Gas and Volatile Compound Emissions from Human Urine as It Ages, Measured by an Electronic Nose. Biosensors, 2016, 6, 4.	2.3	29
57	Optimized Sampling Conditions for Fecal Volatile Organic Compound Analysis by Means of Field Asymmetric Ion Mobility Spectrometry. Analytical Chemistry, 2018, 90, 7972-7981.	3.2	28
58	Post-CMOS wafer level growth of carbon nanotubes for low-cost microsensors—a proof of concept. Nanotechnology, 2010, 21, 485301.	1.3	27
59	Breathomics—exhaled volatile organic compound analysis to detect hepatic encephalopathy: a pilot study. Journal of Breath Research, 2016, 10, 016012.	1.5	27
60	Late-onset Sepsis in Preterm Infants Can Be Detected Preclinically by Fecal Volatile Organic Compound Analysis: A Prospective, Multicenter Cohort Study. Clinical Infectious Diseases, 2019, 68, 70-77.	2.9	27
61	The pathophysiology of bile acid diarrhoea: differences in the colonic microbiome, metabolome and bile acids. Scientific Reports, 2020, 10, 20436.	1.6	27
62	High doped MBE Si p–n and n–n heterojunction diodes on 4H-SiC. Microelectronics Journal, 2007, 38, 1233-1237.	1.1	26
63	Si/SiC bonded wafer: A route to carbon free SiO2 on SiC. Applied Physics Letters, 2009, 94, .	1.5	26
64	Analysis of inhomogeneous Ge/SiC heterojunction diodes. Journal of Applied Physics, 2009, 106, .	1.1	26
65	Exploratory Study Using Urinary Volatile Organic Compounds for the Detection of Hepatocellular Carcinoma. Molecules, 2021, 26, 2447.	1.7	26
66	Towards a truly biomimetic olfactory microsystem: an artificial olfactory mucosa. IET Nanobiotechnology, 2007, 1, 15.	1.9	24
67	Sniffing Out Urinary Tract Infection—Diagnosis Based on Volatile Organic Compounds and Smell Profile. Biosensors, 2020, 10, 83.	2.3	23
68	Urinary Volatiles and Chemical Characterisation for the Non-Invasive Detection of Prostate and Bladder Cancers. Biosensors, 2021, 11, 437.	2.3	22
69	Portable e-Mucosa System: Mimicking the biological olfactory. Procedia Chemistry, 2009, 1, 991-994.	0.7	21
70	An improved machine learning pipeline for urinary volatiles disease detection: Diagnosing diabetes. PLoS ONE, 2018, 13, e0204425.	1.1	21
71	Development of a Tuneable NDIR Optical Electronic Nose. Sensors, 2020, 20, 6875.	2.1	21
72	Non-Invasive Detection and Staging of Colorectal Cancer Using a Portable Electronic Nose. Sensors, 2021, 21, 5440.	2.1	21

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73	Non-Invasive Distinction of Non-Alcoholic Fatty Liver Disease using Urinary Volatile Organic Compound Analysis: Early Results. Journal of Gastrointestinal and Liver Diseases, 2020, 24, 197-201.	0.5	21
74	Review of low-cost sensors for indoor air quality: Features and applications. Applied Spectroscopy Reviews, 2022, 57, 747-779.	3.4	21
75	Towards an artificial olfactory mucosa for improved odour classification. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 1713-1728.	1.0	19
76	Differentiation Between Pediatric Irritable Bowel Syndrome and Inflammatory Bowel Disease Based on Fecal Scent: Proof of Principle Study. Inflammatory Bowel Diseases, 2018, 24, 2468-2475.	0.9	19
77	Time-lapse synchrotron X-ray diffraction to monitor conservation coatings for heritage lead in atmospheres polluted with oak-emitted volatile organic compounds. Corrosion Science, 2014, 82, 280-289.	3.0	18
78	Design and simulation of resistive SOI CMOS micro-heaters for high temperature gas sensors. Journal of Physics: Conference Series, 2005, 15, 27-32.	0.3	17
79	Identification of Different Vapors Using a Single Temperature Modulated Polymer Sensor With a Novel Signal Processing Technique. IEEE Sensors Journal, 2009, 9, 314-328.	2.4	17
80	Cross-modal affects of smell on the real-time rendering of grass. , 2009, , .		17
81	Dissolution Kinetics of Polycrystalline Calcium Sulfate-Based Materials: Influence of Chemical Modification. ACS Applied Materials & Interfaces, 2011, 3, 3528-3537.	4.0	17
82	The Detection of Wound Infection by Ion Mobility Chemical Analysis. Biosensors, 2020, 10, 19.	2.3	17
83	Nickel-Oxide Based Thick-Film Gas Sensors for Volatile Organic Compound Detection. Chemosensors, 2021, 9, 247.	1.8	17
84	Multi-field simulations and characterization of CMOS-MEMS high-temperature smart gas sensors based on SOI technology. Journal of Micromechanics and Microengineering, 2008, 18, 075010.	1.5	16
85	Interface characteristics of n-n and p-n Ge/SiC heterojunction diodes formed by molecular beam epitaxy deposition. Journal of Applied Physics, 2010, 107, .	1.1	16
86	Development of a Portable, Multichannel Olfactory Display Transducer. IEEE Sensors Journal, 2018, 18, 4969-4974.	2.4	16
87	Faecal Scent as a Novel Non-Invasive Biomarker to Discriminate between Coeliac Disease and Refractory Coeliac Disease: A Proof of Principle Study. Biosensors, 2019, 9, 69.	2.3	16
88	Mimicking the biological olfactory system: a Portable electronic Mucosa. IET Nanobiotechnology, 2012, 6, 45.	1.9	14
89	Application of MOS Gas Sensors Coupled with Chemometrics Methods to Predict the Amount of Sugar and Carbohydrates in Potatoes. Molecules, 2022, 27, 3508.	1.7	14
90	Identification and quantification of different vapours using a single polymer chemoresistor and the novel dual transient temperature modulation technique. Sensors and Actuators B: Chemical, 2009, 141, 370-380.	4.0	13

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91	The use of gas phase detection and monitoring of potato soft rot infection in store. Postharvest Biology and Technology, 2018, 145, 15-19.	2.9	13
92	The measurement of volatile organic compounds in faeces of piglets as a tool to assess gastrointestinal functionality. Biosystems Engineering, 2019, 184, 122-129.	1.9	13
93	High Temperature SQI CMOS Tungsten Micro-Heaters. , 2006, , .		12
94	Static and Dynamic Analysis of Split-Gate RESURF Stepped Oxide (RSO) MOSFETs for 35 V Applications. , 2009, , .		12
95	Pre-analytical and analytical variables that influence urinary volatile organic compound measurements. PLoS ONE, 2020, 15, e0236591.	1.1	12
96	Conductive polymer gate FET devices for vapour sensing. IET Circuits, Devices and Systems, 2004, 151, 326.	0.6	11
97	Electronic nose versus canine nose: clash of the titans. Gut, 2011, 60, 1768-1768.	6.1	11
98	Resistance-Capacitance Gas Sensor Based on Fractal Geometry. Chemosensors, 2019, 7, 31.	1.8	11
99	Velocity-optimized diffusion for ultra-fast polymer-based resistive gas sensors. IET Science, Measurement and Technology, 2006, 153, 94-100.	0.7	10
100	Simultaneous Assessment of Urinary and Fecal Volatile Organic Compound Analysis in De Novo Pediatric IBD. Sensors, 2019, 19, 4496.	2.1	10
101	Characterization of n-n Ge/SiC heterojunction diodes. Applied Physics Letters, 2008, 93, 112104.	1.5	9
102	Zinc Oxide Nanowire Based Hydrogen Sensor On SOI CMOS Platform. Procedia Engineering, 2011, 25, 1473-1476.	1.2	9
103	Detection of Group B Streptococcus in pregnancy by vaginal volatile organic compound analysis: a prospective exploratory study. Translational Research, 2020, 216, 23-29.	2.2	9
104	The faecal scent of inflammatory bowel disease: Detection and monitoring based on volatile organic compound analysis. Digestive and Liver Disease, 2020, 52, 745-752.	0.4	9
105	Integration of HfO2 on Si/SiC heterojunctions for the gate architecture of SiC power devices. Applied Physics Letters, 2010, 97, 013506.	1.5	8
106	SQI-CMOS based single crystal silicon micro-heaters for gas sensors. , 2006, , .		7
107	A chamber for the perfusion of in vitro tissue with multiple solutions. Journal of Neurophysiology, 2013, 110, 269-277.	0.9	7
108	Editorial: metabolomic analysis of breath volatile organic compounds – a new scent for inflammatory bowel disease. Alimentary Pharmacology and Therapeutics, 2014, 40, 732-733.	1.9	7

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109	Low Cost Optical Electronic Nose for Biomedical Applications. Proceedings (mdpi), 2017, 1, .	0.2	7
110	Oxygen Sensors Based on Screen Printed Platinum and Palladium Doped Indium Oxides. Proceedings (mdpi), 2017, 1, 401.	0.2	7
111	AACVD Grown WO ₃ Nanoneedles Decorated With Ag/Ag ₂ O Nanoparticles for Oxygen Measurement in a Humid Environment. IEEE Sensors Journal, 2019, 19, 826-832.	2.4	7
112	Volatile organic compound analysis, a new tool in the quest for preterm birth prediction—an observational cohort study. Scientific Reports, 2020, 10, 12153.	1.6	7
113	Development of a Thermal-Based Olfactory Display for Aroma Sensory Training. IEEE Sensors Journal, 2020, 20, 631-636.	2.4	7
114	Direct <i>in situ</i> spectroscopic evidence of the crucial role played by surface oxygen vacancies in the O ₂ -sensing mechanism of SnO ₂ . Chemical Science, 2022, 13, 6089-6097.	3.7	7
115	Urinary Volatile Organic Compound Testing in Fast-Track Patients with Suspected Colorectal Cancer. Cancers, 2022, 14, 2127.	1.7	7
116	SiC MOSFET Channel Mobility Dependence on Substrate Doping and Temperature Considering High Density of Interface Traps. Materials Science Forum, 2007, 556-557, 835-838.	0.3	6
117	Non-Invasive Detection of Anastomotic Leakage Following Esophageal and Pancreatic Surgery by Urinary Analysis. Digestive Surgery, 2019, 36, 173-180.	0.6	6
118	Preclinical Detection of Non-catheter Related Late-onset Sepsis in Preterm Infants by Fecal Volatile Compounds Analysis. Pediatric Infectious Disease Journal, 2020, 39, 330-335.	1.1	6
119	Development of Gas Sensor Based on Fractal Substrate Structures. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-7.	2.4	6
120	Silicon-based Neuromorphic Implementation of the Olfactory Pathway. , 0, , .		5
121	Investigation of Si/4H-SiC Hetero-Junction Growth and Electrical Properties. Materials Science Forum, 2009, 615-617, 443-446.	0.3	5
122	Continuous-channel flow linear dichroism. Analytical Methods, 2012, 4, 3169.	1.3	5
123	Tungsten Oxide Based Sensor for Oxygen Detection. Proceedings (mdpi), 2018, 2, .	0.2	5
124	A Multi-MOx Sensor Approach to Measure Oxidizing and Reducing Gases. Proceedings (mdpi), 2019, 14, 50.	0.2	5
125	Development of a Personalised Environmental Quality Monitoring System (PONG). IEEE Sensors Journal, 2021, , 1-1.	2.4	5

126 Investigation on split-gate RSO MOSFET for 30 V breakdown. , 2008, , .

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127	A Universal Calibration Method for Electronic Nose Based on Projection on to Convex Sets. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	5
128	Applying Convolution-Based Processing Methods To A Dual-Channel, Large Array Artificial Olfactory Mucosa. , 2009, , .		4
129	CMOS Alcohol Sensor Employing ZnO Nanowire Sensing Films. , 2009, , .		4
130	A novel monolithic microactuator fabricated by 3D rapid direct manufacture. Procedia Chemistry, 2009, 1, 1163-1166.	0.7	4
131	Nanowire hydrogen gas sensor employing CMOS micro-hotplate. , 2009, , .		4
132	Rapid manufacture of monolithic micro-actuated forceps inspired by echinoderm pedicellariae. Bioinspiration and Biomimetics, 2012, 7, 044001.	1.5	4
133	Investigation of paediatric PKU breath malodour, comparing glycomacropeptide with phenylalanine free L-amino acid supplements. Journal of Breath Research, 2020, 14, 016001.	1.5	4
134	Prediction of Inflammatory Bowel Disease Course Based on Fecal Scent. Sensors, 2022, 22, 2316.	2.1	4
135	<title>Conducting polymer FET devices for vapor sensing</title> . , 1999, 3673, 296.		3
136	Nanotubes and Nanorods on CMOS Substrates for Gas Sensing. , 2009, , .		3
137	Characterization of fabricated three dimensional scaffolds of bioceramic-polymer composite via microstereolithography technique. AIP Conference Proceedings, 2014, , .	0.3	3
138	Comparative study of spin-coated and vapour deposited nickel oxides for detecting VOCs. , 2020, , .		3
139	Minimal Gluten Exposure Alters Urinary Volatile Organic Compounds in Stable Coeliac Disease. Sensors, 2022, 22, 1290.	2.1	3
140	Detection of the fungal infection in post-harvest onions by an electronic nose. , 2022, , .		3
141	Development of Low Resistance Al/Ti Stacked Metal Contacts to p-Type 4H-SiC. Materials Science Forum, 2007, 556-557, 697-700.	0.3	2
142	Identification of vapours using a single carbon black/polymer composite sensor and a novel temperature modulation technique. , 2007, , .		2
143	Carbon Nanomaterial Polymer Composite ChemFET and Chemoresistors For Vapour Sensing. , 2009, , .		2
144	Detecting inflammatory bowel disease through an electronic nose. Gastrointestinal Nursing, 2010, 8, 44-47.	0.0	2

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145	A High Temperature SOI CMOS NO[sub 2] Sensor. , 2011, , .		2
146	A simple, portable, computer-controlled odour generator. , 2017, , .		2
147	Deep Learning Investigation of Mass Spectrometry Analysis from Melanoma Samples. , 2019, , .		2
148	Electronic Mucosa. , 0, , 257-274.		2
149	ZnO/MoO ₃ Heterojunction Thick Films to Detect ppb Level Volatile Organic Compounds. IEEE Sensors Journal, 2022, 22, 10353-10360.	2.4	2
150	<title>Design and coupled-effect simulations of CMOS micro gas sensors built on SOI thin membranes</title> ., 2001, , .		1
151	Towards a truly biomimetic olfactory microsystem: an artificial olfactory mucosa. , 2006, , 105.		1
152	Enhanced Discrimination of Complex Odours Based upon Spatio-Temporalsignals from a Micro-Mucosa. , 2007, , .		1
153	Novel gas chromatographic microsystem with very large sensor arrays for advanced odour discrimination. , 2007, , .		1
154	Silicon-on-SiC, a Novel Semiconductor Structure for Power Devices. Materials Science Forum, 2010, 645-648, 1243-1246.	0.3	1
155	Deposition of tungsten oxide and silver decorated tungsten oxide for use in oxygen gas sensing. , 2017, , .		1
156	A Novel, Low-Cost, Portable PID Sensor for Detection of VOC. Proceedings (mdpi), 2017, 1, .	0.2	1
157	OWE-021â€Describing the gut microbiome and metabolomic changes in bile acid diarrhoea. , 2018, , .		1
158	Breath analysis using eNose technology to diagnose inflammatory bowel disease – early results. Future Healthcare Journal, 2019, 6, 79-79.	0.6	1
159	Wine Aroma Sensory Training Game Employing a Thermal Based Olfactory Display. , 2019, , .		1
160	Prediction of mortality in severe acute malnutrition in hospitalized children by faecal volatile organic compound analysis: proof of concept. Scientific Reports, 2020, 10, 18785.	1.6	1
161	Finite Element Simulation of a Biomimetic Olfactory Microsystem for Spatio-temporal Signal Generation. Communications in Computer and Information Science, 2007, , 216-226.	0.4	1
162	Electronic Nose for Bladder Cancer Detection. Chemistry Proceedings, 2021, 5, .	0.1	1

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163	Ultrafast chemical-sensing microsystem employing resistive nanomaterials. , 2004, , .		0
164	Molecular beam epitaxy Si/4H-SiC heterojunction diodes. , 2007, , .		0
165	Novel dual transient temperature modulation technique for multi-vapour detection. , 2009, , .		0
166	Germanium – Silicon Carbide Heterojunction Diodes – A Study in Device Characteristics with Increasing Layer Thickness and Deposition Temperature. Materials Science Forum, 2010, 645-648, 889-892.	0.3	0
167	Characterisation of HfO ₂ /Si/SiC MOS Capacitors. Materials Science Forum, 0, 679-680, 674-677.	0.3	0
168	Towards an Analogue Neuromorphic VLSI Instrument for the Sensing of Complex Odours. , 2011, , .		0
169	LBPS 01-22 VOLATILE ORGANIC COMPOUNDS. Journal of Hypertension, 2016, 34, e180.	0.3	0
170	PTU-071â€Risk stratification of symptomatic patients using faecal biomarkers and urinary volatile organic compounds. , 2018, , .		0
171	Semiconducting Indium Oxide Sensor for Oxygen Detection. , 2021, , .		0
172	Classification of Field Asymmetric Ion Mobility Spectrometry Data for Detection of Bowel Bacteria. , 2012, , .		0
173	Fused deposition modelling for the fabrication of metal oxide based gas sensor. AIP Conference Proceedings, 2021, , .	0.3	0
174	Humidity Dependence of Commercial Thick and Thin-Film MOX Gas Sensors under UV Illumination. , 2021, 10, .		0
175	A Portable Personalised Environmental Quality Monitoring System (PONG) Ver. 2. , 2022, , .		0
176	A Stand-alone Multi-scent Olfactory Display with a Sliding Scent Switching Mechanism. , 2022, , .		0