

James A Covington

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7806909/publications.pdf>

Version: 2024-02-01

176
papers

4,427
citations

94381

37
h-index

138417

58
g-index

178
all docs

178
docs citations

178
times ranked

4844
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal Gluten Exposure Alters Urinary Volatile Organic Compounds in Stable Coeliac Disease. Sensors, 2022, 22, 1290.	2.1	3
2	Prediction of Inflammatory Bowel Disease Course Based on Fecal Scent. Sensors, 2022, 22, 2316.	2.1	4
3	ZnO/MoO ₃ Heterojunction Thick Films to Detect ppb Level Volatile Organic Compounds. IEEE Sensors Journal, 2022, 22, 10353-10360.	2.4	2
4	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
5	Urinary Volatile Organic Compound Testing in Fast-Track Patients with Suspected Colorectal Cancer. Cancers, 2022, 14, 2127.	1.7	7
6	Development of Gas Sensor Based on Fractal Substrate Structures. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-7.	2.4	6
7	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
8	A Portable Personalised Environmental Quality Monitoring System (PONG) Ver. 2. , 2022, , .		0
9	A Stand-alone Multi-scent Olfactory Display with a Sliding Scent Switching Mechanism. , 2022, , .		0
10	Detection of the fungal infection in post-harvest onions by an electronic nose. , 2022, , .		3
11	Review of low-cost sensors for indoor air quality: Features and applications. Applied Spectroscopy Reviews, 2022, 57, 747-779.	3.4	21
12	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
13	Volatile organic compounds (VOCs) for the non-invasive detection of pancreatic cancer from urine. Talanta, 2021, 221, 121604.	2.9	46
14	Development of a Personalised Environmental Quality Monitoring System (PONG). IEEE Sensors Journal, 2021, , 1-1.	2.4	5
15	Exploratory Study Using Urinary Volatile Organic Compounds for the Detection of Hepatocellular Carcinoma. Molecules, 2021, 26, 2447.	1.7	26
16	Artificial Olfaction in the 21 st Century. IEEE Sensors Journal, 2021, 21, 12969-12990.	2.4	46
17	Non-Invasive Detection and Staging of Colorectal Cancer Using a Portable Electronic Nose. Sensors, 2021, 21, 5440.	2.1	21
18	Nickel-Oxide Based Thick-Film Gas Sensors for Volatile Organic Compound Detection. Chemosensors, 2021, 9, 247.	1.8	17

#	ARTICLE	IF	CITATIONS
19	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
20	Semiconducting Indium Oxide Sensor for Oxygen Detection. , 2021, , .		0
21	Urinary Volatiles and Chemical Characterisation for the Non-Invasive Detection of Prostate and Bladder Cancers. Biosensors, 2021, 11, 437.	2.3	22
22	Fused deposition modelling for the fabrication of metal oxide based gas sensor. AIP Conference Proceedings, 2021, , .	0.3	0
23	Electronic Nose for Bladder Cancer Detection. Chemistry Proceedings, 2021, 5, .	0.1	1
24	Humidity Dependence of Commercial Thick and Thin-Film MOX Gas Sensors under UV Illumination. , 2021, 10, .		0
25	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
26	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
27	Breath-based non-invasive diagnosis of Alzheimer's disease: a pilot study. Journal of Breath Research, 2020, 14, 026003.	1.5	33
28	The pathophysiology of bile acid diarrhoea: differences in the colonic microbiome, metabolome and bile acids. Scientific Reports, 2020, 10, 20436.	1.6	27
29	Development of a Tuneable NDIR Optical Electronic Nose. Sensors, 2020, 20, 6875.	2.1	21
30	Sniffing Out Urinary Tract Infection—Diagnosis Based on Volatile Organic Compounds and Smell Profile. Biosensors, 2020, 10, 83.	2.3	23
31	Pre-analytical and analytical variables that influence urinary volatile organic compound measurements. PLoS ONE, 2020, 15, e0236591.	1.1	12
32	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
33	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
34	The Detection of Wound Infection by Ion Mobility Chemical Analysis. Biosensors, 2020, 10, 19.	2.3	17
35	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
36	Development of a Compact, IoT-Enabled Electronic Nose for Breath Analysis. Electronics (Switzerland), 2020, 9, 84.	1.8	35

#	ARTICLE	IF	CITATIONS
37	Development of a Thermal-Based Olfactory Display for Aroma Sensory Training. IEEE Sensors Journal, 2020, 20, 631-636.	2.4	7
38	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
39	Humidity-Tolerant Ultrathin NiO Gas-Sensing Films. ACS Sensors, 2020, 5, 1389-1397.	4.0	38
40	Comparative study of spin-coated and vapour deposited nickel oxides for detecting VOCs. , 2020, , .		3
41	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
42	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
43	Non-Invasive Detection of Anastomotic Leakage Following Esophageal and Pancreatic Surgery by Urinary Analysis. Digestive Surgery, 2019, 36, 173-180.	0.6	6
44	Breath analysis using eNose technology to diagnose inflammatory bowel disease “early results. Future Healthcare Journal, 2019, 6, 79-79.	0.6	1
45	Resistance-Capacitance Gas Sensor Based on Fractal Geometry. Chemosensors, 2019, 7, 31.	1.8	11
46	A Multi-MOx Sensor Approach to Measure Oxidizing and Reducing Gases. Proceedings (mdpi), 2019, 14, 50.	0.2	5
47	Simultaneous Assessment of Urinary and Fecal Volatile Organic Compound Analysis in De Novo Pediatric IBD. Sensors, 2019, 19, 4496.	2.1	10
48	Deep Learning Investigation of Mass Spectrometry Analysis from Melanoma Samples. , 2019, , .		2
49	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
50	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
51	Breath Analysis Using eNose and Ion Mobility Technology to Diagnose Inflammatory Bowel Disease“A Pilot Study. Biosensors, 2019, 9, 55.	2.3	43
52	Wine Aroma Sensory Training Game Employing a Thermal Based Olfactory Display. , 2019, , .		1
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	Noninvasive Diagnosis of Pancreatic Cancer Through Detection of Volatile Organic Compounds in Urine. <i>Gastroenterology</i> , 2018, 154, 485-487.e1.	0.6	53
56	Faecal volatile organic compounds analysis using field asymmetric ion mobility spectrometry: non-invasive diagnostics in paediatric inflammatory bowel disease. <i>Journal of Breath Research</i> , 2018, 12, 016006.	1.5	32
57	OWE-021 Describing the gut microbiome and metabolomic changes in bile acid diarrhoea. , 2018, , .		1
58	PTU-071 Risk stratification of symptomatic patients using faecal biomarkers and urinary volatile organic compounds. , 2018, , .		0
59	Tungsten Oxide Based Sensor for Oxygen Detection. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	5
60	Non-Invasive Diagnosis of Diabetes by Volatile Organic Compounds in Urine Using FAIMS and Fox4000 Electronic Nose. <i>Biosensors</i> , 2018, 8, 121.	2.3	38
61	An improved machine learning pipeline for urinary volatiles disease detection: Diagnosing diabetes. <i>PLoS ONE</i> , 2018, 13, e0204425.	1.1	21
62	Risk stratification of symptomatic patients suspected of colorectal cancer using faecal and urinary markers. <i>Colorectal Disease</i> , 2018, 20, O335-O342.	0.7	53
63	Differentiation Between Pediatric Irritable Bowel Syndrome and Inflammatory Bowel Disease Based on Fecal Scent: Proof of Principle Study. <i>Inflammatory Bowel Diseases</i> , 2018, 24, 2468-2475.	0.9	19
64	Design and Development of a Low-Cost, Portable Monitoring Device for Indoor Environment Quality. <i>Journal of Sensors</i> , 2018, 2018, 1-14.	0.6	54
65	The Effect of Film Thickness on the Gas Sensing Properties of Ultra-Thin TiO ₂ Films Deposited by Atomic Layer Deposition. <i>Sensors</i> , 2018, 18, 735.	2.1	49
66	A novel, low-cost, portable PID sensor for the detection of volatile organic compounds. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 10-15.	4.0	34
67	Optimized Sampling Conditions for Fecal Volatile Organic Compound Analysis by Means of Field Asymmetric Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 7972-7981.	3.2	28
68	The use of gas phase detection and monitoring of potato soft rot infection in store. <i>Postharvest Biology and Technology</i> , 2018, 145, 15-19.	2.9	13
69	Development of a Portable, Multichannel Olfactory Display Transducer. <i>IEEE Sensors Journal</i> , 2018, 18, 4969-4974.	2.4	16
70	A simple, portable, computer-controlled odour generator. , 2017, , .		2
71	Deposition of tungsten oxide and silver decorated tungsten oxide for use in oxygen gas sensing. , 2017, , .		1
72	Low Cost Optical Electronic Nose for Biomedical Applications. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	7

#	ARTICLE	IF	CITATIONS
73	Oxygen Sensors Based on Screen Printed Platinum and Palladium Doped Indium Oxides. Proceedings (mdpi), 2017, 1, 401.	0.2	7
74	A Novel, Low-Cost, Portable PID Sensor for Detection of VOC. Proceedings (mdpi), 2017, 1, .	0.2	1
75	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
76	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
77	A simple breath test for tuberculosis using ion mobility: A pilot study. Tuberculosis, 2016, 99, 143-146.	0.8	30
78	LBPS 01-22 VOLATILE ORGANIC COMPOUNDS. Journal of Hypertension, 2016, 34, e180.	0.3	0
79	Breathomicsâ€™ exhaled volatile organic compound analysis to detect hepatic encephalopathy: a pilot study. Journal of Breath Research, 2016, 10, 016012.	1.5	27
80	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
81	Non-invasive exhaled volatile organic biomarker analysis to detect inflammatory bowel disease (IBD). Digestive and Liver Disease, 2016, 48, 148-153.	0.4	50
82	The Interplay of the Gut Microbiome, Bile Acids, and Volatile Organic Compounds. Gastroenterology Research and Practice, 2015, 2015, 1-6.	0.7	72
83	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
84	The application of FAIMS gas analysis in medical diagnostics. Analyst, The, 2015, 140, 6775-6781.	1.7	71
85	Rapid, Accurate, and On-Site Detection of C. difficile in Stool Samples. American Journal of Gastroenterology, 2015, 110, 588-594.	0.2	29
86	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
87	Characterization of fabricated three dimensional scaffolds of bioceramic-polymer composite via microstereolithography technique. AIP Conference Proceedings, 2014, , .	0.3	3
88	Review article: next generation diagnostic modalities in gastroenterology â€“ gas phase volatile compound biomarker detection. Alimentary Pharmacology and Therapeutics, 2014, 39, 780-789.	1.9	111
89	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
90	Editorial: metabolomic analysis of breath volatile organic compounds â€“ a new scent for inflammatory bowel disease. Alimentary Pharmacology and Therapeutics, 2014, 40, 732-733.	1.9	7

#	ARTICLE	IF	CITATIONS
91	A microstereolithography resin based on thiol-ene chemistry: towards biocompatible 3D extracellular constructs for tissue engineering. <i>Biomaterials Science</i> , 2014, 2, 472-475.	2.6	32
92	Differentiating Coeliac Disease from Irritable Bowel Syndrome by Urinary Volatile Organic Compound Analysis – A Pilot Study. <i>PLoS ONE</i> , 2014, 9, e107312.	1.1	66
93	Detection of Colorectal Cancer (CRC) by Urinary Volatile Organic Compound Analysis. <i>PLoS ONE</i> , 2014, 9, e108750.	1.1	124
94	Pd-doped reduced graphene oxide sensing films for H ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 478-487.	4.0	95
95	Ultrasensitive Detection of Dopamine Using a Carbon Nanotube Network Microfluidic Flow Electrode. <i>Analytical Chemistry</i> , 2013, 85, 163-169.	3.2	102
96	Dual electrode micro-channel flow cell for redox titrations: Kinetics and analysis of homogeneous ascorbic acid oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2013, 692, 72-79.	1.9	32
97	Fabrication of 3-Dimensional Cellular Constructs via Microstereolithography Using a Simple, Three-Component, Poly(Ethylene Glycol) Acrylate-Based System. <i>Biomacromolecules</i> , 2013, 14, 186-192.	2.6	31
98	Application of a Novel Tool for Diagnosing Bile Acid Diarrhoea. <i>Sensors</i> , 2013, 13, 11899-11912.	2.1	65
99	A Novel Tool for Noninvasive Diagnosis and Tracking of Patients with Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2013, 19, 999-1003.	0.9	68
100	A chamber for the perfusion of in vitro tissue with multiple solutions. <i>Journal of Neurophysiology</i> , 2013, 110, 269-277.	0.9	7
101	The Detection of Patients at Risk of Gastrointestinal Toxicity during Pelvic Radiotherapy by Electronic Nose and FAIMS: A Pilot Study. <i>Sensors</i> , 2012, 12, 13002-13018.	2.1	45
102	Rapid manufacture of monolithic micro-actuated forceps inspired by echinoderm pedicellariae. <i>Bioinspiration and Biomimetics</i> , 2012, 7, 044001.	1.5	4
103	Mimicking the biological olfactory system: a Portable electronic Mucosa. <i>IET Nanobiotechnology</i> , 2012, 6, 45.	1.9	14
104	Continuous-channel flow linear dichroism. <i>Analytical Methods</i> , 2012, 4, 3169.	1.3	5
105	Evaluation of gut bacterial populations using an electronic e-nose and field asymmetric ion mobility spectrometry: further insights into “fermentonomics”™. <i>Journal of Medical Engineering and Technology</i> , 2012, 36, 333-337.	0.8	31
106	Classification of Field Asymmetric Ion Mobility Spectrometry Data for Detection of Bowel Bacteria. , 2012, , .		0
107	Dissolution Kinetics of Polycrystalline Calcium Sulfate-Based Materials: Influence of Chemical Modification. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3528-3537.	4.0	17
108	Zinc Oxide Nanowire Based Hydrogen Sensor On SOI CMOS Platform. <i>Procedia Engineering</i> , 2011, 25, 1473-1476.	1.2	9

#	ARTICLE	IF	CITATIONS
109	Insights into “fermentonomics”™: evaluation of volatile organic compounds (VOCs) in human disease using an electronic “e-nose”™. Journal of Medical Engineering and Technology, 2011, 35, 87-91.	0.8	48
110	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
111	Combined electronic nose and tongue for a flavour sensing system. Sensors and Actuators B: Chemical, 2011, 156, 832-839.	4.0	69
112	Electronic nose versus canine nose: clash of the titans. Gut, 2011, 60, 1768-1768.	6.1	11
113	A High Temperature SOI CMOS NO ₂ Sensor. , 2011, , .		2
114	Towards an Analogue Neuromorphic VLSI Instrument for the Sensing of Complex Odours. , 2011, , .		0
115	ZnO nanowires grown on SOI CMOS substrate for ethanol sensing. Sensors and Actuators B: Chemical, 2010, 146, 559-565.	4.0	101
116	Development of Amino“Oxazoline and Amino“Thiazoline Organic Catalysts for the Ring“Opening Polymerisation of Lactide. Chemistry - A European Journal, 2010, 16, 6099-6105.	1.7	33
117	Detecting inflammatory bowel disease through an electronic nose. Gastrointestinal Nursing, 2010, 8, 44-47.	0.0	2
118	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
119	Silicon-on-SiC, a Novel Semiconductor Structure for Power Devices. Materials Science Forum, 2010, 645-648, 1243-1246.	0.3	1
120	Integration of HfO ₂ on Si/SiC heterojunctions for the gate architecture of SiC power devices. Applied Physics Letters, 2010, 97, 013506.	1.5	8
121	CMOS Interfacing for Integrated Gas Sensors: A Review. IEEE Sensors Journal, 2010, 10, 1833-1848.	2.4	175
122	Post-CMOS wafer level growth of carbon nanotubes for low-cost microsensors“a proof of concept. Nanotechnology, 2010, 21, 485301.	1.3	27
123	Fabrication of Versatile Channel Flow Cells for Quantitative Electroanalysis Using Prototyping. Analytical Chemistry, 2010, 82, 3124-3131.	3.2	77
124	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
125	Si/SiC bonded wafer: A route to carbon free SiO ₂ on SiC. Applied Physics Letters, 2009, 94, .	1.5	26
126	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

#	ARTICLE	IF	CITATIONS
127	Novel dual transient temperature modulation technique for multi-vapour detection. , 2009, , .		0
128	Applying Convolution-Based Processing Methods To A Dual-Channel, Large Array Artificial Olfactory Mucosa. , 2009, , .		4
129	Nanotubes and Nanorods on CMOS Substrates for Gas Sensing. , 2009, , .		3
130	Carbon Nanomaterial Polymer Composite ChemFET and Chemoresistors For Vapour Sensing. , 2009, , .		2
131	Cross-modal affects of smell on the real-time rendering of grass. , 2009, , .		17
132	CMOS Alcohol Sensor Employing ZnO Nanowire Sensing Films. , 2009, , .		4
133	Investigation of Si/4H-SiC Hetero-Junction Growth and Electrical Properties. Materials Science Forum, 2009, 615-617, 443-446.	0.3	5
134	Conducting Nanocomposite Polymer Foams from Iceâ€Crystalâ€Templated Assembly of Mixtures of Colloids. Advanced Materials, 2009, 21, 2894-2898.	11.1	63
135	A novel monolithic microactuator fabricated by 3D rapid direct manufacture. Procedia Chemistry, 2009, 1, 1163-1166.	0.7	4
136	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
137	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
138	Portable e-Mucosa System: Mimicking the biological olfactory. Procedia Chemistry, 2009, 1, 991-994.	0.7	21
139	Nanowire hydrogen gas sensor employing CMOS micro-hotplate. , 2009, , .		4
140	Static and Dynamic Analysis of Split-Gate RESURF Stepped Oxide (RSO) MOSFETs for 35 V Applications. , 2009, , .		12
141	Analysis of inhomogeneous Ge/SiC heterojunction diodes. Journal of Applied Physics, 2009, 106, .	1.1	26
142	Siâ€SiC Heterojunctions Fabricated by Direct Wafer Bonding. Electrochemical and Solid-State Letters, 2008, 11, H306.	2.2	31
143	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
144	Characterization of n-n Ge/SiC heterojunction diodes. Applied Physics Letters, 2008, 93, 112104.	1.5	9

#	ARTICLE	IF	CITATIONS
145	Investigation on split-gate RSO MOSFET for 30 V breakdown. , 2008, , .		5
146	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
147	Identification of vapours using a single carbon black/polymer composite sensor and a novel temperature modulation technique. , 2007, , .		2
148	Enhanced Discrimination of Complex Odours Based upon Spatio-Temporal signals from a Micro-Mucosa. , 2007, , .		1
149	Novel gas chromatographic microsystem with very large sensor arrays for advanced odour discrimination. , 2007, , .		1
150	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
151	Towards a truly biomimetic olfactory microsystem: an artificial olfactory mucosa. IET Nanobiotechnology, 2007, 1, 15.	1.9	24
152	Characterization and modeling of n-nâ€™Siâ€™-SiC heterojunction diodes. Journal of Applied Physics, 2007, 102, .	1.1	58
153	Molecular beam epitaxy Si/4H-SiC heterojunction diodes. , 2007, , .		0
154	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
155	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
156	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
157	High doped MBE Si pâ€™n and nâ€™n heterojunction diodes on 4H-SiC. Microelectronics Journal, 2007, 38, 1233-1237.	1.1	26
158	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
159	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
160	Field-effect mobility temperature modeling of 4H-SiC metal-oxide-semiconductor transistors. Journal of Applied Physics, 2006, 100, 114508.	1.1	105
161	High Temperature SQI CMOS Tungsten Micro-Heaters. , 2006, , .		12
162	SQI-CMOS based single crystal silicon micro-heaters for gas sensors. , 2006, , .		7

#	ARTICLE	IF	CITATIONS
163	Towards a truly biomimetic olfactory microsystem: an artificial olfactory mucosa. , 2006, , 105.		1
164	Velocity-optimized diffusion for ultra-fast polymer-based resistive gas sensors. IET Science, Measurement and Technology, 2006, 153, 94-100.	0.7	10
165	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
166	Conductive polymer gate FET devices for vapour sensing. IET Circuits, Devices and Systems, 2004, 151, 326.	0.6	11
167	Ultrafast chemical-sensing microsystem employing resistive nanomaterials. , 2004, , .		0
168	Micro-gas-sensor with conducting polymers. Sensors and Actuators B: Chemical, 2002, 84, 66-71.	4.0	66
169	<title>Design and coupled-effect simulations of CMOS micro gas sensors built on SOI thin membranes</title>. , 2001, , .		1
170	A polymer gate FET sensor array for detecting organic vapours. Sensors and Actuators B: Chemical, 2001, 77, 155-162.	4.0	103
171	Design and simulations of SOI CMOS micro-hotplate gas sensors. Sensors and Actuators B: Chemical, 2001, 78, 180-190.	4.0	105
172	GasFETs incorporating conducting polymers as gate materials. Sensors and Actuators B: Chemical, 2000, 65, 253-256.	4.0	39
173	<title>Conducting polymer FET devices for vapor sensing</title>. , 1999, 3673, 296.		3
174	Silicon-based Neuromorphic Implementation of the Olfactory Pathway. , 0, , .		5
175	Characterisation of HfO ₂ /Si/SiC MOS Capacitors. Materials Science Forum, 0, 679-680, 674-677.	0.3	0
176	Electronic Mucosa. , 0, , 257-274.		2