

# Hossam Haick

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

244  
papers

14,973  
citations

71  
h-index

116  
g-index

268  
ext. papers

17,587  
ext. citations

10.6  
avg, IF

7.15  
L-index

#	Paper	IF	Citations
244	Highly Efficient Self-Healing Multifunctional Dressing with Antibacterial Activity for Sutureless Wound Closure and Infected Wound Monitoring (Adv. Mater. 3/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270025	24.6	1
243	Wound Dressing: From Nanomaterials to Diagnostic Dressings and Healing Evaluations.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	17
242	Techniques for wearable gas sensors fabrication. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 353, 131133	8.5	2
241	Controlling Response of Polyaniline Towards Humidity by Self-Assembly Fatty Acids. <i>ECS Journal of Solid State Science and Technology</i> , <b>2022</b> , 11, 037001	2	0
240	A Wearable Microneedle-Based Extended Gate Transistor for Real-Time Detection of Sodium in Interstitial Fluids (Adv. Mater. 10/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270079	24	1
239	Synthesis, characterization, and humidity-responsiveness of guar gum xanthate and its nanocomposite with copper sulfide covellite.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 206, 105-114	7.9	1
238	A flexible dual-structured MXene for ultra-sensitive and ultra-wide monitoring of anatomical and physiological movements. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 26867-26874	13	4
237	Wearable Microneedle-Based Extended Gate Transistor for Real-Time Detection of Sodium in Interstitial Fluids.. <i>Advanced Materials</i> , <b>2021</b> , e2108607	24	6
236	Highly Efficient Self-Healing Multifunctional Dressing with Antibacterial Activity for Sutureless Wound Closure and Infected Wound Monitoring. <i>Advanced Materials</i> , <b>2021</b> , e2106842	24	21
235	Fully Integrated Self-Powered Electrical Stimulation Cell Culture Dish for Noncontact High-Efficiency Plasmid Transfection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54762-54769	9.5	1
234	Stretchable and Highly Permeable Nanofibrous Sensors for Detecting Complex Human Body Motion (Adv. Mater. 41/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170325	24	0
233	Online vs. on-campus higher education: Exploring innovation in students' self-reports and students' learning products. <i>Thinking Skills and Creativity</i> , <b>2021</b> , 42, 100965	3	6
232	Sensing gastric cancer via point-of-care sensor breath analyzer. <i>Cancer</i> , <b>2021</b> , 127, 1286-1292	6.4	1
231	Detection of Single Cancer Cells in Blood with Artificially Intelligent Nanoarray. <i>ACS Nano</i> , <b>2021</b> , 15, 77446-77557	16.7	5
230	Self-Healing Soft Sensors: Self-Healing Soft Sensors: From Material Design to Implementation (Adv. Mater. 11/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170085	24	2
229	Detecting COVID-19 from Breath: A Game Changer for a Big Challenge. <i>ACS Sensors</i> , <b>2021</b> , 6, 1408-1417	9.2	36
228	Wearable Sensors and Systems for Wound Healing-Related pH and Temperature Detection. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	18

227	Biointerfaced sensors for biodiagnostics. <i>View</i> , <b>2021</b> , 2, 20200172	7.8	9
226	Fabricating and printing chemiresistors based on monolayer-capped metal nanoparticles. <i>Nature Protocols</i> , <b>2021</b> , 16, 2968-2990	18.8	1
225	Biodiagnostics in an era of global pandemics-From biosensing materials to data management. <i>View</i> , <b>2021</b> , 20200164	7.8	6
224	Profiles of Volatile Biomarkers Detect Tuberculosis from Skin. <i>Advanced Science</i> , <b>2021</b> , 8, e2100235	13.6	7
223	High-Performance Polyimide-Based Water-Solid Triboelectric Nanogenerator for Hydropower Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 32106-32114	9.5	9
222	Self-Healing Soft Sensors: From Material Design to Implementation. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004190	14.0	35
221	Artificial Intelligence in Medical Sensors for Clinical Decisions. <i>ACS Nano</i> , <b>2021</b> , 15, 3557-3567	16.7	34
220	CuS-Carrageenan Composite Grown from the Gel/Liquid Interface. <i>ChemSystemsChem</i> , <b>2021</b> , 3, e2000063	11.1	6
219	Multifunctional Dressing for Wound Diagnosis and Rehabilitation. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2101292	10.1	8
218	Stretchable and Highly Permeable Nanofibrous Sensors for Detecting Complex Human Body Motion. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102488	24	9
217	An Organic Solvent-Assisted Intercalation and Collection (OAIC) for TiCT MXene with Controllable Sizes and Improved Yield. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 188	19.5	6
216	Smart Materials Enabled with Artificial Intelligence for Healthcare Wearables (Adv. Funct. Mater. 51/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170380	15.6	
215	Bioinspired Triboelectric Nanosensors for Self-Powered Wearable Applications.. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> ,	5.5	3
214	Nanosensor-Based Flexible Electronic Assisted with Light Fidelity Communicating Technology for Volatolomics-Based Telemedicine. <i>ACS Nano</i> , <b>2020</b> , 14, 15517-15532	16.7	11
213	A Highly Aligned Nanowire-Based Strain Sensor for Ultrasensitive Monitoring of Subtle Human Motion. <i>Small</i> , <b>2020</b> , 16, e2001363	11	36
212	Exhaled breath diagnostics of lung and gastric cancers in China using nanosensors. <i>Cancer Communications</i> , <b>2020</b> , 40, 273-278	9.4	9
211	Strain Sensors: A Highly Aligned Nanowire-Based Strain Sensor for Ultrasensitive Monitoring of Subtle Human Motion (Small 24/2020). <i>Small</i> , <b>2020</b> , 16, 2070132	11	2
210	Gas Sensors Based on Chemi-Resistive Hybrid Functional Nanomaterials. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 71	19.5	131

209	Highly Efficient and Water-Insensitive Self-Healing Elastomer for Wet and Underwater Electronics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910196	15.6	59
208	Trichloroethylene increases pulmonary endothelial permeability: implication for pulmonary veno-occlusive disease. <i>Pulmonary Circulation</i> , <b>2020</b> , 10, 2045894020907884	2.7	1
207	A Multifunctional Electronic Skin Empowered with Damage Mapping and Autonomic Acceleration of Self-Healing in Designated Locations. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000246	24	53
206	Electronic Skin: A Multifunctional Electronic Skin Empowered with Damage Mapping and Autonomic Acceleration of Self-Healing in Designated Locations (Adv. Mater. 17/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070134	24	1
205	Versatile nature of anthanthrone based polymers as active multifunctional semiconductors for various organic electronic devices. <i>Materials Advances</i> , <b>2020</b> , 1, 3428-3438	3.3	3
204	Measurement of temperature and relative humidity in exhaled breath. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 304, 127371	8.5	45
203	Point of care breath analysis systems <b>2020</b> , 315-334		0
202	Sensor systems <b>2020</b> , 201-220		2
201	How do international gastric cancer prevention guidelines influence clinical practice globally?. <i>European Journal of Cancer Prevention</i> , <b>2020</b> , 29, 400-407	2	0
200	Multiplexed Nanomaterial-Based Sensor Array for Detection of COVID-19 in Exhaled Breath. <i>ACS Nano</i> , <b>2020</b> , 14, 12125-12132	16.7	137
199	Establishing the validity and reliability of a modified tool for assessing innovative thinking of engineering students. <i>Assessment and Evaluation in Higher Education</i> , <b>2020</b> , 45, 212-223	3.1	12
198	Overview on SNIFFPHONE: a portable device for disease diagnosis <b>2019</b> ,		4
197	Engineering crystalline quasi-two-dimensional polyaniline thin film with enhanced electrical and chemiresistive sensing performances. <i>Nature Communications</i> , <b>2019</b> , 10, 4225	17.4	78
196	Time-Resolved and Self-Adjusting Hybrid Functional Fabric Sensor for Decoupling Multiple Stimuli from Bending. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900290	6.8	5
195	Directly transforming SnS <sub>2</sub> nanosheets to hierarchical SnO <sub>2</sub> nanotubes: Towards sensitive and selective sensing of acetone at relatively low operating temperatures. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 292, 148-155	8.5	31
194	Self-Healing Materials for Analyte Sensing <b>2019</b> , 325-339		3
193	Time-space-resolved origami hierarchical electronics for ultrasensitive detection of physical and chemical stimuli. <i>Nature Communications</i> , <b>2019</b> , 10, 1120	17.4	32
192	Non-contact breath sampling for sensor-based breath analysis. <i>Journal of Breath Research</i> , <b>2019</b> , 13, 036001	3.1	7

191	Self-Healable Materials for Underwater Applications. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 19000816.8	21
190	Interface-Regulated Contact Electrification for Power-Free and Highly Selective Gas Sensing. <i>Advanced Intelligent Systems</i> , <b>2019</b> , 1, 1900066	6 9
189	Sensors for detecting pulmonary diseases from exhaled breath. <i>European Respiratory Review</i> , <b>2019</b> , 28,	9.8 34
188	Screening for gastric cancer using exhaled breath samples. <i>British Journal of Surgery</i> , <b>2019</b> , 106, 1122-1125	15
187	Breath analysis of cancer in the present and the future. <i>European Respiratory Review</i> , <b>2019</b> , 28,	9.8 27
186	Tailor-Made Engineering of Bioinspired Inks for Writing Barcode-like Multifunctional Sensory Electronics. <i>ACS Sensors</i> , <b>2019</b> , 4, 2588-2592	9.2 6
185	Disease Detection with Molecular Biomarkers: From Chemistry of Body Fluids to Nature-Inspired Chemical Sensors. <i>Chemical Reviews</i> , <b>2019</b> , 119, 11761-11817	68.1 134
184	Quantitative Measures of Reliability and Sensitivity of Nanoparticle-Based Sensors in Detecting Volatile Organic Compounds. <i>ACS Omega</i> , <b>2019</b> , 4, 19983-19990	3.9 2
183	Volatile Compounds Are Involved in Cellular Crosstalk and Upregulation. <i>Advanced Biology</i> , <b>2019</b> , 3, e1900131	3 3
182	Repeatability Study on a Classifier for Gastric Cancer Detection from Breath Sensor Data <b>2019</b> ,	1
181	Learning from an Intelligent Mechanosensing System of Plants. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800464	6.8 9
180	Profiling Single Cancer Cells with Volatolomics Approach. <i>iScience</i> , <b>2019</b> , 11, 178-188	6.1 28
179	Organic Transistor Based on Cyclopentadithiophene-Benzothiadiazole Donor-Acceptor Copolymer for the Detection and Discrimination between Multiple Structural Isomers. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808188	15.6 12
178	Associations of diet and lifestyle factors with common volatile organic compounds in exhaled breath of average-risk individuals. <i>Journal of Breath Research</i> , <b>2019</b> , 13, 026006	3.1 12
177	A Freestanding Stretchable and Multifunctional Transistor with Intrinsic Self-Healing Properties of all Device Components. <i>Small</i> , <b>2019</b> , 15, e1803939	11 31
176	Materials and Wearable Devices for Autonomous Monitoring of Physiological Markers. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705024	24 110
175	Detection of halitosis in breath: Between the past, present, and future. <i>Oral Diseases</i> , <b>2018</b> , 24, 685-695	3.5 20
174	Altered Volatile Organic Compound Profile in Transgenic Rats Bearing A53T Mutation of Human $\beta$ -Synuclein: Comparison with Dopaminergic and Serotonergic Denervation. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 291-297	5.7 2

173	Ex vivo emission of volatile organic compounds from gastric cancer and non-cancerous tissue. <i>Journal of Breath Research</i> , <b>2018</b> , 12, 046005	3.1	16
172	Autonomous Flexible Sensors for Health Monitoring. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802337	24	101
171	Sensor Array for Detection of Early Stage Parkinson's Disease before Medication. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 2548-2553	5.7	17
170	Breath volatolomics for diagnosing chronic rhinosinusitis. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 4661-4670	7.3	8
169	Volatile Organic Compounds: Chemically Modified Polyaniline for the Detection of Volatile Biomarkers of Minimal Sensitivity to Humidity and Bending (Adv. Healthcare Mater. 15/2018). <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, 1870059	10.1	1
168	Synergy between nanomaterials and volatile organic compounds for non-invasive medical evaluation. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 4781-4859	58.5	131
167	Electronic Noses: From Advanced Materials to Sensors Aided with Data Processing. <i>Advanced Materials Technologies</i> , <b>2018</b> , 4, 1800488	6.8	83
166	Healthcare Monitoring: Materials and Wearable Devices for Autonomous Monitoring of Physiological Markers (Adv. Mater. 41/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870309	24	3
165	Chemically Modified Polyaniline for the Detection of Volatile Biomarkers of Minimal Sensitivity to Humidity and Bending. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800232	10.1	15
164	Cancer metabolism: the volatile signature of glycolysis-in vitro model in lung cancer cells. <i>Journal of Breath Research</i> , <b>2017</b> , 11, 016008	3.1	20
163	Advanced Materials for Use in Soft Self-Healing Devices. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604973	24	265
162	Volatolomics of breath as an emerging frontier in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , <b>2017</b> , 49,	13.6	25
161	Controlling Marangoni flow directionality: patterning nano-materials using sessile and sliding volatile droplets. <i>European Physical Journal: Special Topics</i> , <b>2017</b> , 226, 1307-1324	2.3	4
160	Diketopyrrolopyrrole copolymers based chemical sensors for the detection and discrimination of volatile organic compounds. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 251, 49-56	8.5	19
159	Constructing Interpretable Classifiers to Diagnose Gastric Cancer Based on Breath Tests. <i>Procedia Computer Science</i> , <b>2017</b> , 104, 279-285	1.6	3
158	Advanced Materials for Health Monitoring with Skin-Based Wearable Devices. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700024	10.1	165
157	Diagnosis and Classification of 17 Diseases from 1404 Subjects via Pattern Analysis of Exhaled Molecules. <i>ACS Nano</i> , <b>2017</b> , 11, 112-125	16.7	279
156	Multi-Parametric Sensing Platforms Based on Nanoparticles. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600206	6.8	38

155	Free-Standing and Eco-Friendly Polyaniline Thin Films for Multifunctional Sensing of Physical and Chemical Stimuli. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703147	15.6	32
154	Light-Regulated Electrochemical Sensor Array for Efficiently Discriminating Hazardous Gases. <i>ACS Sensors</i> , <b>2017</b> , 2, 1467-1473	9.2	21
153	Detection of Lung Cancer and EGFR Mutation by Electronic Nose System. <i>Journal of Thoracic Oncology</i> , <b>2017</b> , 12, 1544-1551	8.9	37
152	Exhaled Breath Markers for Nonimaging and Noninvasive Measures for Detection of Multiple Sclerosis. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 2402-2413	5.7	24
151	Detection of precancerous gastric lesions and gastric cancer through exhaled breath. <i>Gut</i> , <b>2016</b> , 65, 400-409.2	19.2	104
150	Sensor Arrays: Printing Ultrasensitive Artificially Intelligent Sensors Array with a Single Self-Propelled Droplet Containing Nanoparticles (Adv. Funct. Mater. 35/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6322-6322	15.6	1
149	Printing Ultrasensitive Artificially Intelligent Sensors Array with a Single Self-Propelled Droplet Containing Nanoparticles. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6359-6370	15.6	17
148	Programmed Nanoparticles for Tailoring the Detection of Inflammatory Bowel Diseases and Irritable Bowel Syndrome Disease via Breathprint. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2339-44	10.1	19
147	Composites of Polymer and Carbon Nanostructures for Self-Healing Chemical Sensors. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 1600187	6.8	30
146	A Highly Sensitive Diketopyrrolopyrrole-Based Ambipolar Transistor for Selective Detection and Discrimination of Xylene Isomers. <i>Advanced Materials</i> , <b>2016</b> , 28, 4012-8	24	112
145	Analysis of the effects of microbiome-related confounding factors on the reproducibility of the volatolomic test. <i>Journal of Breath Research</i> , <b>2016</b> , 10, 037101	3.1	15
144	Self-Healable Sensors Based Nanoparticles for Detecting Physiological Markers via Skin and Breath: Toward Disease Prevention via Wearable Devices. <i>Nano Letters</i> , <b>2016</b> , 16, 4194-202	11.5	113
143	Cancerous glucose metabolism in lung cancer-evidence from exhaled breath analysis. <i>Journal of Breath Research</i> , <b>2016</b> , 10, 026012	3.1	22
142	Fluorinated alkyne-derived monolayers on oxide-free silicon nanowires via one-step hydrosilylation. <i>Applied Surface Science</i> , <b>2016</b> , 387, 1202-1210	6.7	10
141	Self-Healing, Fully Functional, and Multiparametric Flexible Sensing Platform. <i>Advanced Materials</i> , <b>2016</b> , 28, 138-43	24	160
140	Exhaled Breath Analysis for Monitoring Response to Treatment in Advanced Lung Cancer. <i>Journal of Thoracic Oncology</i> , <b>2016</b> , 11, 827-37	8.9	64
139	Motivation to learn in massive open online courses: Examining aspects of language and social engagement. <i>Computers and Education</i> , <b>2016</b> , 94, 49-60	9.5	165
138	Sensors: A Highly Sensitive Diketopyrrolopyrrole-Based Ambipolar Transistor for Selective Detection and Discrimination of Xylene Isomers (Adv. Mater. 21/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 4163	24	



137	UV regulation of non-equilibrated electrochemical reaction for detecting aromatic volatile organic compounds. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 237, 30-40	8.5	16
136	Silicon Nanowire Sensors Enable Diagnosis of Patients via Exhaled Breath. <i>ACS Nano</i> , <b>2016</b> , 10, 7047-57	16.7	142
135	From technology assessment to responsible research and innovation (RRI) <b>2016</b> ,		2
134	Artificially Intelligent Nanoarray for the Detection of Preeclampsia under Real-World Clinical Conditions. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 1600132	6.8	11
133	Breath testing as potential colorectal cancer screening tool. <i>International Journal of Cancer</i> , <b>2016</b> , 138, 229-36	7.5	91
132	Assessment of ovarian cancer conditions from exhaled breath. <i>International Journal of Cancer</i> , <b>2015</b> , 136, E614-22	7.5	83
131	Controlling the Sensing Properties of Silicon Nanowires via the Bonds Nearest to the Silicon Nanowire Surface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 11315-21	9.5	17
130	Assessment of Ovarian Cancer Conditions From Exhaled Breath. <i>Obstetrical and Gynecological Survey</i> , <b>2015</b> , 70, 89-91	2.4	3
129	Printing Nanostructures with a Propelled Anti-Pinning Ink Droplet. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2411-2419	15.6	13
128	Application of Organophosphonic Acids by One-Step Supercritical CO <sub>2</sub> on 1D and 2D Semiconductors: Toward Enhanced Electrical and Sensing Performances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 14885-95	9.5	6
127	Dynamic Nanoparticle-Based Flexible Sensors: Diagnosis of Ovarian Carcinoma from Exhaled Breath. <i>Nano Letters</i> , <b>2015</b> , 15, 7023-8	11.5	133
126	In Situ and Real-Time Inspection of Nanoparticle Average Size in Flexible Printed Sensors. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 27521-27528	3.8	6
125	Ultrasensitive silicon nanowire for real-world gas sensing: noninvasive diagnosis of cancer from breath volatolome. <i>Nano Letters</i> , <b>2015</b> , 15, 1288-95	11.5	173
124	Artificially intelligent nanoarrays for disease detection via volatolomics <b>2015</b> ,		2
123	Nanoscale Sensor Technologies for Disease Detection via Volatolomics. <i>Small</i> , <b>2015</b> , 11, 6142-64	11	128
122	Hybride Volatolomik und der Nachweis von Krankheiten. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11188-11201	3.6	6
121	Hybrid volatolomics and disease detection. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11036-48	6.4	161
120	Detection of cancer through exhaled breath: a systematic review. <i>Oncotarget</i> , <b>2015</b> , 6, 38643-57	3.3	111



119	Distinguishing idiopathic Parkinson's disease from other parkinsonian syndromes by breath test. <i>Parkinsonism and Related Disorders</i> , <b>2015</b> , 21, 150-3	3.6	28
118	UV-induced SiC nanowire sensors. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 055102	3	13
117	Role of silicon nanowire diameter for alkyl (chain lengths C <sub>12</sub> ) passivation efficiency through Si-C bonds. <i>Langmuir</i> , <b>2015</b> , 31, 2430-7	4	4
116	High-resolution unpixelated smart patches with antiparallel thickness gradients of nanoparticles. <i>Advanced Materials</i> , <b>2015</b> , 27, 1779-84	24	60
115	Differentiation between genetic mutations of breast cancer by breath volatolomics. <i>Oncotarget</i> , <b>2015</b> , 6, 44864-76	3.3	44
114	Artificial sensing intelligence with silicon nanowires for ultrasensitive detection in the gas phase. <i>Nano Letters</i> , <b>2014</b> , 14, 933-8	11.5	180
113	Chemical sensors for breath gas analysis: the latest developments at the Breath Analysis Summit 2013. <i>Journal of Breath Research</i> , <b>2014</b> , 8, 027103	3.1	42
112	Assessment, origin, and implementation of breath volatile cancer markers. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 1423-49	58.5	371
111	Designing Thin Film-Capped Metallic Nanoparticles Configurations for Sensing Applications. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 1903-1909	3.8	12
110	Impact of hemodialysis on exhaled volatile organic compounds in end-stage renal disease: a pilot study. <i>Nanomedicine</i> , <b>2014</b> , 9, 1035-45	5.6	16
109	Monolayer-capped gold nanoparticles for disease detection from breath. <i>Nanomedicine</i> , <b>2014</b> , 9, 1991-2002	9.2	77
108	Sensor arrays based on nanoparticles for early detection of kidney injury by breath samples. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 1767-76	6	31
107	Unique volatolomic signatures of TP53 and KRAS in lung cells. <i>British Journal of Cancer</i> , <b>2014</b> , 111, 1213-8.1	8.1	34
106	Analysis of volatile organic compounds in rats with dopaminergic lesion: Possible application for early detection of Parkinson's disease. <i>Neurochemistry International</i> , <b>2014</b> , 76, 82-90	4.4	12
105	Assessment of the exhalation kinetics of volatile cancer biomarkers based on their physicochemical properties. <i>Journal of Breath Research</i> , <b>2014</b> , 8, 016003	3.1	66
104	Analysis of exhaled breath for diagnosing head and neck squamous cell carcinoma: a feasibility study. <i>British Journal of Cancer</i> , <b>2014</b> , 111, 790-8	8.7	46
103	Detecting active pulmonary tuberculosis with a breath test using nanomaterial-based sensors. <i>European Respiratory Journal</i> , <b>2014</b> , 43, 1522-5	13.6	73
102	Combined volatolomics for monitoring of human body chemistry. <i>Scientific Reports</i> , <b>2014</b> , 4, 4611	4.9	79

101	Exhaled Volatile Organic Compounds as Noninvasive Markers in Breast Cancer <b>2014</b> , 461-481		1
100	A Non-Oxidative Approach Towards Hybrid Silicon Nanowire- Based Solar Cell Heterojunctions <b>2014</b> , 1,		3
99	Sensors for breath testing: from nanomaterials to comprehensive disease detection. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 66-76	24.3	365
98	Flexible sensors based on nanoparticles. <i>ACS Nano</i> , <b>2013</b> , 7, 8366-78	16.7	364
97	Discriminative power of chemically sensitive silicon nanowire field effect transistors to volatile organic compounds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 11172-83	9.5	36
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