Chuanjun Liu

List of Publications by Year
in descending order

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58 papers	1,152 citations	361413 20 h-index	414414 32 g-index
59 all docs	59 docs citations	59 times ranked	1178 citing authors

#	Article	IF	Citations
1	A Machine Learning Methodology for Diagnosing Chronic Kidney Disease. IEEE Access, 2020, 8, 20991-21002.	4.2	139
2	A smart municipal waste management system based on deep-learning and Internet of Things. Waste Management, 2021, 135, 20-29.	7.4	94
3	Au nanoparticles decorated polyaniline nanofiber sensor for detecting volatile sulfur compounds in expired breath. Sensors and Actuators B: Chemical, 2012, 161, 504-509.	7.8	72
4	Molecular imprinted polyacrylic acids based QCM sensor array for recognition of organic acids in body odor. Sensors and Actuators B: Chemical, 2014, 204, 74-87.	7.8	54
5	LSPR sensor array based on molecularly imprinted sol-gels for pattern recognition of volatile organic acids. Sensors and Actuators B: Chemical, 2017, 249, 14-21.	7.8	53
6	Machine-Learning-Based Olfactometer: Prediction of Odor Perception from Physicochemical Features of Odorant Molecules. Analytical Chemistry, 2017, 89, 11999-12005.	6.5	42
7	Development of a fluorescent imaging sensor for the detection of human body sweat odor. Sensors and Actuators B: Chemical, 2013, 183, 117-123.	7.8	40
8	Covalent immobilization of glucose oxidase on films prepared by electrochemical copolymerization of 3-methylthiophene and thiophene-3-acetic acid for amperometric sensing of glucose: Effects of polymerization conditions on sensing properties. European Polymer Journal, 2007, 43, 3264-3276.	5.4	38
9	Structure and localized surface plasmon tuning of sputtered Au nano-islands through thermal annealing. Vacuum, 2014, 110, 94-101.	3.5	36
10	Molecularly Imprinted Sol-Gel-Based QCM Sensor Arrays for the Detection and Recognition of Volatile Aldehydes. Sensors, 2017, 17, 382.	3.8	36
11	Localized surface plasmon resonance gas sensor of Au nano-islands coated with molecularly imprinted polymer: Influence of polymer thickness on sensitivity and selectivity. Sensors and Actuators B: Chemical, 2016, 231, 787-792.	7.8	34
12	Selective Terpene Vapor Detection Using Molecularly Imprinted Polymer Coated Au Nanoparticle LSPR Sensor. IEEE Sensors Journal, 2014, 14, 3458-3464.	4.7	32
13	Anisotropic conductivityâ€“temperature characteristic of solution-cast poly(3-hexylthiophene) films. Synthetic Metals, 2006, 156, 1362-1367.	3.9	31
14	Development of a polyaniline nanofiber-based carbon monoxide sensor for hydrogen fuel cell application. International Journal of Hydrogen Energy, 2012, 37, 13529-13535.	7.1	31
15	Plant Biomarker Recognition by Molecular Imprinting Based Localized Surface Plasmon Resonance Sensor Array: Performance Improvement by Enhanced Hotspot of Au Nanostructure. ACS Sensors, 2018, 3, 1531-1538.	7.8	31
16	Development of molecular imprinted sol-gel based LSPR sensor for detection of volatile cis-jasmone in plant. Sensors and Actuators B: Chemical, 2018, 260, 617-626.	7.8	30
17	Preparation of molecularly imprinted polymer nanobeads for selective sensing of carboxylic acid vapors. Analytica Chimica Acta, 2018, 1010, 1-10.	5.4	28
18	2,4,6-Trinitrophenol detection by a new portable sensing gadget using carbon dots as a fluorescent probe. Analytical and Bioanalytical Chemistry, 2019, 411, 2291-2300.	3.7	26

#	Article	IF	Citations
19	Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. IEEE Sensors Journal, 2013, 13, 1307-1314.	4.7	25
20	Template-Free Deposition of Polyaniline Nanostructures on Solid Substrates with Horizontal Orientation. Macromolecules, 2011, 44, 2212-2219.	4.8	21
21	Human body odor discrimination by GC-MS spectra data mining. Analytical Methods, 2015, 7, 9549-9561.	2.7	18
22	Molecularly imprinted sol-gel/Au@Ag core-shell nano-urchin localized surface plasmon resonance sensor designed in reflection mode for detection of organic acid vapors. Biosensors and Bioelectronics, 2020, 169, 112639.	10.1	18
23	Electrochemical deposition of nanostructured polyaniline on an insulating substrate. Electrochemistry Communications, 2010, 12, 36-39.	4.7	17
24	A fully inkjet-printed disposable gas sensor matrix with molecularly imprinted gas-selective materials. Npj Flexible Electronics, 2022, 6, .	10.7	16
25	A novel formation process of polyaniline micro-/nanofiber network on solid substrates. Synthetic Metals, 2009, 159, 1077-1081.	3.9	14
26	Localized Surface Plasmon Resonance Gas Sensor Based on Molecularly Imprinted Polymer Coated Au Nano-Island Films: Influence of Nanostructure on Sensing Characteristics. IEEE Sensors Journal, 2016, 16, 3532-3540.	4.7	14
27	Multispectral fluorescence imaging for odorant discrimination and visualization. Sensors and Actuators B: Chemical, 2015, 220, 1297-1304.	7.8	13
28	Layer-by-Layer Structured AuNP Sensors for Terpene Vapor Detection. IEEE Sensors Journal, 2013, 13, 4212-4219.	4.7	11
29	Odorant clustering based on molecular parameter-feature extraction and imaging analysis of olfactory bulb odor maps. Sensors and Actuators B: Chemical, 2018, 255, 508-518.	7.8	11
30	Electric-field enhancement of molecularly imprinted solâ€“gel-coated Au nano-urchin sensors for vapor detection of plant biomarkers. Journal of Materials Chemistry C, 2020, 8, 262-269.	5.5	11
31	All polymer PTC devices: Temperature-conductivity characteristics of polyisothianaphthene and poly(3-hexylthiophene) blends. Journal of Applied Polymer Science, 2005, 97, 1848-1854.	2.6	10
32	Visualization of controlled fragrance release from cyclodextrin inclusion complexes by fluorescence imaging. Flavour and Fragrance Journal, 2014, 29, 356-363.	2.6	10
33	Growth orientation control of metal nanostructures using linearly polarized light irradiation. Thin Solid Films, 2017, 621, 137-144.	1.8	10
34	High-speed Gas Sensing using Localized Surface Plasmon Resonance of Sputtered Noble Metal Nanoparticles. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 90-95.	0.1	10
35	Electrical conduction and gas sensing characteristics of P3HT/Au nano-islands composite. Sensors and Actuators B: Chemical, 2017, 241, 1099-1105.	7.8	8
36	Tracing of Chemical Components of Odor in Peels and Flesh from Ripe Banana on a Daily Basis Using GC-MS Characterization and Statistical Analysis for Quality Monitoring During Storage. Food Analytical Methods, 2019, 12, 947-955.	2.6	8

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37	DeepSniffer: A meta-learning-based chemiresistive odor sensor for recognition and classification of aroma oils. Sensors and Actuators B: Chemical, 2022, 351, 130960.	7.8	8
38	Preparation of a poly(3-hexylthiophene)-grafted indium tin oxide/poly(3-hexylthiopene) composite and its conductivityâ€“temperature characteristics. Journal of Applied Polymer Science, 2006, 100, 1881-1888.	2.6	7
39	Amperometric glucose-responding property of enzyme electrodes fabricated by covalent immobilization of glucose oxidase on conducting polymer films with macroporous structure. European Polymer Journal, 2008, 44, 1114-1122.	5.4	6
40	Molecularly imprinted polymer coated Au nanoparticle sensor for α-pinene vapor detection. , 2013, , .		6
41	Co-occurrence-based clustering of odor descriptors for predicting structure-odor relationship. , 2019, , .		6
42	Identification of discriminating chemical compounds in banana species and their odor characterization using GCâ€“MS, statistical, and clustering analysis. Journal of Food Science and Technology, 2022, 59, 402-408.	2.8	6
43	Irradiation Wavelength-Dependent Photocurrent Sensing Characteristics of AuNPs/P3HT Composites on Volatile Vapor. IEEE Sensors Journal, 2016, 16, 596-602.	4.7	5
44	2D Self-assembly of an amido-ended hyperbranched polyester induced by platinum ion coordination effect. RSC Advances, 2013, 3, 17073.	3.6	4
45	Fully Inkjet-Printed Chemiresistive Sensor Array Based on Molecularly Imprinted Solâ€“Gel Active Materials. ACS Sensors, 2022, 7, 1819-1828.	7.8	4
46	Odor Image Sensing by Multi Probe Film. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 199-205.	0.1	3
47	Gas visualization based on localized surface plasmon resonance of gold nanoparticle films. , 2015, , .		2
48	Odor spatial distribution visualized by a fluorescent imaging sensor. , 2013, , .		1
49	Visualization of odor space and quality. , 2019, , 253-269.		1
50	A Flexible and Printable Chemiresistor Sensor Array for Detection and Recognition of Aging-Associated Human Body Odor. ECS Meeting Abstracts, 2020, MA2020-01, 2011-2011.	0.0	1
51	Gas Sensing Character of Polyaniline with Micro-âˆ•Nano-Fiber Network Structure. , 2009, , .		0
52	Layer-by-layer structured Au NPs sensors for terpene vapors detection. , 2012, , .		0
53	Functionlized AuNPs by dye materials for chemical sensor application. , 2014, , .		0
54	Odor source shape visualization by multispectral fluorescence sensing. , 2015, , .		0

#	Article	IF	Citations
55	Odor Sensing Technologies for Visualization of Odor Quality and Space. , 2015, , 191-212.		0
56	Electron transfer during binding processes between thiolate molecules and Au nano-islands. Applied Surface Science, 2019, 473, 49-54.	6.1	0
57	Paper-based Chemiresistive Gas Sensor Using Molecularly Imprinted Sol-Gels for Volatile Organic Acids Detection. , 2021, , .		0
58	AuNU Dimers on ITO Substrate With the Highest Refractive Index Sensitivity as Chemical Sensor. IEEE Sensors Journal, 2022, 22, 7580-7589.	4.7	0