

Chuanjun Liu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,152
citations

361388

20
h-index

414395

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. <i>IEEE Access</i> , 2020, 8, 20991-21002.	4.2	139
2	A smart municipal waste management system based on deep-learning and Internet of Things. <i>Waste Management</i> , 2021, 135, 20-29.	7.4	94
3	Au nanoparticles decorated polyaniline nanofiber sensor for detecting volatile sulfur compounds in expired breath. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 504-509.	7.8	72
4	Molecular imprinted polyacrylic acids based QCM sensor array for recognition of organic acids in body odor. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 74-87.	7.8	54
5	LSPR sensor array based on molecularly imprinted sol-gels for pattern recognition of volatile organic acids. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 14-21.	7.8	53
6	Machine-Learning-Based Olfactometer: Prediction of Odor Perception from Physicochemical Features of Odorant Molecules. <i>Analytical Chemistry</i> , 2017, 89, 11999-12005.	6.5	42
7	Development of a fluorescent imaging sensor for the detection of human body sweat odor. <i>Sensors and Actuators B: Chemical</i> , 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. <i>European Polymer Journal</i> , 2007, 43, 3264-3276.	5.4	38
9	Structure and localized surface plasmon tuning of sputtered Au nano-islands through thermal annealing. <i>Vacuum</i> , 2014, 110, 94-101.	3.5	36
10	Molecularly Imprinted Sol-Gel-Based QCM Sensor Arrays for the Detection and Recognition of Volatile Aldehydes. <i>Sensors</i> , 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. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 787-792.	7.8	34
12	Selective Terpene Vapor Detection Using Molecularly Imprinted Polymer Coated Au Nanoparticle LSPR Sensor. <i>IEEE Sensors Journal</i> , 2014, 14, 3458-3464.	4.7	32
13	Anisotropic conductivity-temperature characteristic of solution-cast poly(3-hexylthiophene) films. <i>Synthetic Metals</i> , 2006, 156, 1362-1367.	3.9	31
14	Development of a polyaniline nanofiber-based carbon monoxide sensor for hydrogen fuel cell application. <i>International Journal of Hydrogen Energy</i> , 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. <i>ACS Sensors</i> , 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. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 617-626.	7.8	30
17	Preparation of molecularly imprinted polymer nanobeads for selective sensing of carboxylic acid vapors. <i>Analytica Chimica Acta</i> , 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. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2291-2300.	3.7	26

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19	Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. <i>IEEE Sensors Journal</i> , 2013, 13, 1307-1314.	4.7	25
20	Template-Free Deposition of Polyaniline Nanostructures on Solid Substrates with Horizontal Orientation. <i>Macromolecules</i> , 2011, 44, 2212-2219.	4.8	21
21	Human body odor discrimination by GC-MS spectra data mining. <i>Analytical Methods</i> , 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. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112639.	10.1	18
23	Electrochemical deposition of nanostructured polyaniline on an insulating substrate. <i>Electrochemistry Communications</i> , 2010, 12, 36-39.	4.7	17
24	A fully inkjet-printed disposable gas sensor matrix with molecularly imprinted gas-selective materials. <i>Npj Flexible Electronics</i> , 2022, 6, .	10.7	16
25	A novel formation process of polyaniline micro-/nanofiber network on solid substrates. <i>Synthetic Metals</i> , 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. <i>IEEE Sensors Journal</i> , 2016, 16, 3532-3540.	4.7	14
27	Multispectral fluorescence imaging for odorant discrimination and visualization. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1297-1304.	7.8	13
28	Layer-by-Layer Structured AuNP Sensors for Terpene Vapor Detection. <i>IEEE Sensors Journal</i> , 2013, 13, 4212-4219.	4.7	11
29	Odorant clustering based on molecular parameter-feature extraction and imaging analysis of olfactory bulb odor maps. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 508-518.	7.8	11
30	Electric-field enhancement of molecularly imprinted sol-gel-coated Au nano-urchin sensors for vapor detection of plant biomarkers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 262-269.	5.5	11
31	All polymer PTC devices: Temperature-conductivity characteristics of polyisothianaphthene and poly(3-hexylthiophene) blends. <i>Journal of Applied Polymer Science</i> , 2005, 97, 1848-1854.	2.6	10
32	Visualization of controlled fragrance release from cyclodextrin inclusion complexes by fluorescence imaging. <i>Flavour and Fragrance Journal</i> , 2014, 29, 356-363.	2.6	10
33	Growth orientation control of metal nanostructures using linearly polarized light irradiation. <i>Thin Solid Films</i> , 2017, 621, 137-144.	1.8	10
34	High-speed Gas Sensing using Localized Surface Plasmon Resonance of Sputtered Noble Metal Nanoparticles. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2013, 133, 90-95.	0.1	10
35	Electrical conduction and gas sensing characteristics of P3HT/Au nano-islands composite. <i>Sensors and Actuators B: Chemical</i> , 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. <i>Food Analytical Methods</i> , 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. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130960.	7.8	8
38	Preparation of a poly(3-hexylthiophene)-grafted indium tin oxide/poly(3-hexylthiophene) composite and its conductivity-temperature characteristics. <i>Journal of Applied Polymer Science</i> , 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. <i>European Polymer Journal</i> , 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 GC-MS, statistical, and clustering analysis. <i>Journal of Food Science and Technology</i> , 2022, 59, 402-408.	2.8	6
43	Irradiation Wavelength-Dependent Photocurrent Sensing Characteristics of AuNPs/P3HT Composites on Volatile Vapor. <i>IEEE Sensors Journal</i> , 2016, 16, 596-602.	4.7	5
44	2D Self-assembly of an amido-ended hyperbranched polyester induced by platinum ion coordination effect. <i>RSC Advances</i> , 2013, 3, 17073.	3.6	4
45	Fully Inkjet-Printed Chemiresistive Sensor Array Based on Molecularly Imprinted Sol-Gel Active Materials. <i>ACS Sensors</i> , 2022, 7, 1819-1828.	7.8	4
46	Odor Image Sensing by Multi Probe Film. <i>IEEJ Transactions on Sensors and Micromachines</i> , 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. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2011-2011.	0.0	1
51	Gas Sensing Character of Polyaniline with Micro-Nano-Fiber Network Structure. , 2009, , .		0
52	Layer-by-layer structured Au NPs sensors for terpene vapors detection. , 2012, , .		0
53	Functionized AuNPs by dye materials for chemical sensor application. , 2014, , .		0
54	Odor source shape visualization by multispectral fluorescence sensing. , 2015, , .		0

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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