

# Chuanjun Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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         |
| 2  | 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         |
| 3  | AuNU Dimers on ITO Substrate With the Highest Refractive Index Sensitivity as Chemical Sensor. <i>IEEE Sensors Journal</i> , 2022, 22, 7580-7589.  | 4.7  | 0         |
| 4  | 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         |
| 5  | A fully inkjet-printed disposable gas sensor matrix with molecularly imprinted gas-selective materials. <i>Npj Flexible Electronics</i> , 2022, 6, .   | 10.7 | 16        |
| 6  | 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        |
| 7  | Paper-based Chemiresistive Gas Sensor Using Molecularly Imprinted Sol-Gels for Volatile Organic Acids Detection. , 2021, , .   |      | 0         |
| 8  | A Machine Learning Methodology for Diagnosing Chronic Kidney Disease. <i>IEEE Access</i> , 2020, 8, 20991-21002.   | 4.2  | 139       |
| 9  | 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        |
| 10 | 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        |
| 11 | 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         |
| 12 | 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        |
| 13 | Co-occurrence-based clustering of odor descriptors for predicting structure-odor relationship. , 2019, , .   |      | 6         |
| 14 | Visualization of odor space and quality. , 2019, , 253-269.  |      | 1         |
| 15 | Electron transfer during binding processes between thiolate molecules and Au nano-islands. <i>Applied Surface Science</i> , 2019, 473, 49-54.  | 6.1  | 0         |
| 16 | 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         |
| 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 | 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        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | Growth orientation control of metal nanostructures using linearly polarized light irradiation. <i>Thin Solid Films</i> , 2017, 621, 137-144.   | 1.8 | 10        |
| 22 | 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        |
| 23 | 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        |
| 24 | 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         |
| 25 | 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        |
| 26 | 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         |
| 27 | 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        |
| 28 | 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        |
| 29 | Multispectral fluorescence imaging for odorant discrimination and visualization. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1297-1304.  | 7.8 | 13        |
| 30 | Odor source shape visualization by multispectral fluorescence sensing. , 2015, , .   |     | 0         |
| 31 | Gas visualization based on localized surface plasmon resonance of gold nanoparticle films. , 2015, , .   |     | 2         |
| 32 | Human body odor discrimination by GC-MS spectra data mining. <i>Analytical Methods</i> , 2015, 7, 9549-9561.   | 2.7 | 18        |
| 33 | Odor Sensing Technologies for Visualization of Odor Quality and Space. , 2015, , 191-212.  |     | 0         |
| 34 | Functionized AuNPs by dye materials for chemical sensor application. , 2014, , .   |     | 0         |
| 35 | 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        |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | Structure and localized surface plasmon tuning of sputtered Au nano-islands through thermal annealing. <i>Vacuum</i> , 2014, 110, 94-101.   | 3.5 | 36        |
| 38 | 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        |
| 39 | 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         |
| 40 | Molecularly imprinted polymer coated Au nanoparticle sensor for $\alpha$ -pinene vapor detection. , 2013, , .   |     | 6         |
| 41 | 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        |
| 42 | 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        |
| 43 | Odor spatial distribution visualized by a fluorescent imaging sensor. , 2013, , .   |     | 1         |
| 44 | Layer-by-Layer Structured AuNP Sensors for Terpene Vapor Detection. <i>IEEE Sensors Journal</i> , 2013, 13, 4212-4219.  | 4.7 | 11        |
| 45 | Odor Image Sensing by Multi Probe Film. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2013, 133, 199-205.   | 0.1 | 3         |
| 46 | 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        |
| 47 | Layer-by-layer structured Au NPs sensors for terpene vapors detection. , 2012, , .  |     | 0         |
| 48 | 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        |
| 49 | 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        |
| 50 | Template-Free Deposition of Polyaniline Nanostructures on Solid Substrates with Horizontal Orientation. <i>Macromolecules</i> , 2011, 44, 2212-2219.  | 4.8 | 21        |
| 51 | Electrochemical deposition of nanostructured polyaniline on an insulating substrate. <i>Electrochemistry Communications</i> , 2010, 12, 36-39.  | 4.7 | 17        |
| 52 | Gas Sensing Character of Polyaniline with Micro-Nano-Fiber Network Structure. , 2009, , .   |     | 0         |
| 53 | A novel formation process of polyaniline micro-/nanofiber network on solid substrates. <i>Synthetic Metals</i> , 2009, 159, 1077-1081.  | 3.9 | 14        |
| 54 | 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         |

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|----|---|-----|-----------|
| 55 | 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        |
| 56 | Anisotropic conductivity-temperature characteristic of solution-cast poly(3-hexylthiophene) films. <i>Synthetic Metals</i> , 2006, 156, 1362-1367.  | 3.9 | 31        |
| 57 | 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         |
| 58 | 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        |