

Chuanjun Liu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,152
citations

411340

20
h-index

466096

32
g-index

59
all docs

59
docs citations

59
times ranked

1336
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. | 4.0 | 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. | 1.4 | 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. | 2.4 | 0 |
| 4 | Fully Inkjet-Printed Chemiresistive Sensor Array Based on Molecularly Imprinted Sol-Gel Active Materials. <i>ACS Sensors</i> , 2022, 7, 1819-1828. | 4.0 | 4 |
| 5 | A fully inkjet-printed disposable gas sensor matrix with molecularly imprinted gas-selective materials. <i>Npj Flexible Electronics</i> , 2022, 6, . | 5.1 | 16 |
| 6 | A smart municipal waste management system based on deep-learning and Internet of Things. <i>Waste Management</i> , 2021, 135, 20-29. | 3.7 | 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. | 2.6 | 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. | 2.7 | 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. | 5.3 | 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. | 1.9 | 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. | 3.1 | 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. | 1.3 | 8 |
| 17 | Preparation of molecularly imprinted polymer nanobeads for selective sensing of carboxylic acid vapors. <i>Analytica Chimica Acta</i> , 2018, 1010, 1-10. | 2.6 | 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. | 4.0 | 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. | 4.0 | 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. | 4.0 | 31 |
| 21 | Growth orientation control of metal nanostructures using linearly polarized light irradiation. <i>Thin Solid Films</i> , 2017, 621, 137-144. | 0.8 | 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. | 4.0 | 53 |
| 23 | Machine-Learning-Based Olfactometer: Prediction of Odor Perception from Physicochemical Features of Odorant Molecules. <i>Analytical Chemistry</i> , 2017, 89, 11999-12005. | 3.2 | 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. | 4.0 | 8 |
| 25 | Molecularly Imprinted Sol-Gel-Based QCM Sensor Arrays for the Detection and Recognition of Volatile Aldehydes. <i>Sensors</i> , 2017, 17, 382. | 2.1 | 36 |
| 26 | Irradiation Wavelength-Dependent Photocurrent Sensing Characteristics of AuNPs/P3HT Composites on Volatile Vapor. <i>IEEE Sensors Journal</i> , 2016, 16, 596-602. | 2.4 | 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. | 4.0 | 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. | 2.4 | 14 |
| 29 | Multispectral fluorescence imaging for odorant discrimination and visualization. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1297-1304. | 4.0 | 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. | 1.3 | 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. | 1.2 | 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. | 4.0 | 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. | 1.6 | 36 |
| 38 | Selective Terpene Vapor Detection Using Molecularly Imprinted Polymer Coated Au Nanoparticle LSPR Sensor. <i>IEEE Sensors Journal</i> , 2014, 14, 3458-3464. | 2.4 | 32 |
| 39 | 2D Self-assembly of an amido-ended hyperbranched polyester induced by platinum ion coordination effect. <i>RSC Advances</i> , 2013, 3, 17073. | 1.7 | 4 |
| 40 | Molecularly imprinted polymer coated Au nanoparticle sensor for α -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. | 4.0 | 40 |
| 42 | Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. <i>IEEE Sensors Journal</i> , 2013, 13, 1307-1314. | 2.4 | 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. | 2.4 | 11 |
| 45 | Odor Image Sensing by Multi Probe Film. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2013, 133, 199-205. | 0.0 | 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. | 0.0 | 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. | 3.8 | 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. | 4.0 | 72 |
| 50 | Template-Free Deposition of Polyaniline Nanostructures on Solid Substrates with Horizontal Orientation. <i>Macromolecules</i> , 2011, 44, 2212-2219. | 2.2 | 21 |
| 51 | Electrochemical deposition of nanostructured polyaniline on an insulating substrate. <i>Electrochemistry Communications</i> , 2010, 12, 36-39. | 2.3 | 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. | 2.1 | 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. | 2.6 | 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. | 2.6 | 38 |
| 56 | Anisotropic conductivity-temperature characteristic of solution-cast poly(3-hexylthiophene) films. <i>Synthetic Metals</i> , 2006, 156, 1362-1367. | 2.1 | 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. | 1.3 | 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. | 1.3 | 10 |