

# Jianhua

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2639985/publications.pdf>

Version: 2024-02-01

53  
papers

880  
citations

430874

18  
h-index

501196

28  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1313  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | A wavelength-modulated localized surface plasmon resonance (LSPR) optical fiber sensor for sensitive detection of mercury(II) ion by gold nanoparticles-DNA conjugates. <i>Biosensors and Bioelectronics</i> , 2018, 114, 15-21. | 10.1 | 95        |
| 2  | Synthesis and electrochemical sensing application of poly(3,4-ethylenedioxythiophene)-based materials: A review. <i>Analytica Chimica Acta</i> , 2018, 1022, 1-19.   | 5.4  | 89        |
| 3  | Determination of trace mercury in water based on N -octylpyridinium ionic liquids preconcentration and stripping voltammetry. <i>Journal of Hazardous Materials</i> , 2016, 301, 206-213.  | 12.4 | 60        |
| 4  | Millimeter-sized nanomanipulator with sub-nanometer positioning resolution and large force output. <i>Smart Materials and Structures</i> , 2007, 16, 1742-1750.  | 3.5  | 39        |
| 5  | Highly-sensitive electrochemical sensing platforms for food colourants based on the property-tuning of porous carbon. <i>Analytica Chimica Acta</i> , 2015, 887, 75-81.  | 5.4  | 38        |
| 6  | Precision patterning of PDMS membranes and applications. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 037004.   | 2.6  | 37        |
| 7  | L-Aspartic acid/L-cysteine/gold nanoparticle modified microelectrode for simultaneous detection of copper and lead. <i>Thin Solid Films</i> , 2012, 520, 6658-6663.  | 1.8  | 30        |
| 8  | Electrochemical enhancement of long alkyl-chained surfactants for sensitive determination of tetrabromobisphenol A. <i>Electrochimica Acta</i> , 2016, 190, 490-494.   | 5.2  | 28        |
| 9  | A field effect transistor (FET)-based immunosensor for detection of HbA1c and Hb. <i>Biomedical Microdevices</i> , 2011, 13, 345-352.  | 2.8  | 27        |
| 10 | A micro potentiometric immunosensor for hemoglobin-A1c level detection based on mixed SAMs wrapped nano-spheres array. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2689-2693.   | 10.1 | 26        |
| 11 | Fabrication of a Miniature Multi-Parameter Sensor Chip for Water Quality Assessment. <i>Sensors</i> , 2017, 17, 157.   | 3.8  | 26        |
| 12 | Electrochemical microsensor based on gold nanoparticles modified electrode for total phosphorus determinations in water. <i>IET Nanobiotechnology</i> , 2014, 8, 31-36.  | 3.8  | 24        |
| 13 | Micro electrochemical sensor with copper nanoclusters for nitrate determination in freshwaters. <i>Micro and Nano Letters</i> , 2012, 7, 1197-1201.  | 1.3  | 23        |
| 14 | Temperature-controlled ionic liquid dispersive liquid-liquid microextraction combined with fluorescence detection of ultra-trace Hg <sup>2+</sup> in water. <i>Analytical Methods</i> , 2019, 11, 2669-2676.                     | 2.7  | 23        |
| 15 | CMOS and MEMS based micro hemoglobin-A1c biosensors fabricated by various antibody immobilization methods. <i>Sensors and Actuators A: Physical</i> , 2011, 169, 282-287.  | 4.1  | 21        |
| 16 | 3D Dendritic Nanostructure of Silver Array: Preparation, Growth Mechanism and Application in Nitrate Sensor. <i>Electroanalysis</i> , 2013, 25, 546-556.   | 2.9  | 20        |
| 17 | A Palladium-Tin Modified Microband Electrode Array for Nitrate Determination. <i>Sensors</i> , 2015, 15, 23249-23261.  | 3.8  | 19        |
| 18 | Theoretical analysis of the sensing and actuating effects of piezoelectric multimorph cantilevers. <i>Microsystem Technologies</i> , 2006, 12, 335-342.  | 2.0  | 18        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Toward Carbon Nanotube-Based AFM Cantilevers. <i>IEEE Nanotechnology Magazine</i> , 2007, 6, 519-523.  | 2.0 | 18        |
| 20 | Palladium-Gold Modified Ultramicro Interdigital Array Electrode Chip for Nitrate Detection in Neutral Water. <i>Micromachines</i> , 2019, 10, 223.   | 2.9 | 17        |
| 21 | FET immunosensor for hemoglobin A1c using a gold nanofilm grown by a seed-mediated technique and covered with mixed self-assembled monolayers. <i>Mikrochimica Acta</i> , 2012, 176, 65-72.  | 5.0 | 16        |
| 22 | Electrochemical enhancement of acetylene black film as sensitive sensing platform for toxic tetrabromobisphenol A. <i>RSC Advances</i> , 2015, 5, 105837-105843.   | 3.6 | 16        |
| 23 | Simultaneous Detection of Copper, Lead and Zinc on Tin Film/Gold Nanoparticles/Gold Microelectrode by Square Wave Stripping Voltammetry. <i>Electroanalysis</i> , 2012, 24, 1783-1790.   | 2.9 | 15        |
| 24 | Microsensor Chip Integrated with Gold Nanoparticles-Modified Ultramicroelectrode Array for Improved Electroanalytical Measurement of Copper Ions. <i>Electroanalysis</i> , 2013, 25, 1713-1721.  | 2.9 | 15        |
| 25 | Salt-induced ionic liquid dispersive liquid-liquid microextraction and filter separation. <i>Analytical Methods</i> , 2016, 8, 1096-1102.  | 2.7 | 15        |
| 26 | Electrodeposition of copper nano-clusters at a platinum microelectrode for trace nitrate determination. <i>Procedia Engineering</i> , 2010, 5, 339-342.  | 1.2 | 12        |
| 27 | An Electrochemical Microsensor Based on a AuNPs-Modified Microband Array Electrode for Phosphate Determination in Fresh Water Samples. <i>Sensors</i> , 2014, 14, 24472-24482.   | 3.8 | 12        |
| 28 | The Polypyrrole/Multiwalled Carbon Nanotube Modified Au Microelectrode for Sensitive Electrochemical Detection of Trace Levels of Pb <sup>2+</sup> . <i>Micromachines</i> , 2017, 8, 86.   | 2.9 | 12        |
| 29 | Micro cobalt electrodes for detection of total phosphorus in water. <i>Micro and Nano Letters</i> , 2012, 7, 1176-1179.  | 1.3 | 10        |
| 30 | Microfluidic chip with interdigitated ultramicroelectrode array for total phosphorus detection. <i>Micro and Nano Letters</i> , 2014, 9, 862-865.  | 1.3 | 10        |
| 31 | An integrated photocatalytic microfluidic platform enabling total phosphorus digestion. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 025006.  | 2.6 | 10        |
| 32 | Ultramicroelectrode array modified with magnetically labeled <i>Bacillus subtilis</i> , palladium nanoparticles and reduced carboxy graphene for amperometric determination of biochemical oxygen demand. <i>Mikrochimica Acta</i> , 2017, 184, 763-771. | 5.0 | 10        |
| 33 | Modification of Graphene on Ultramicroelectrode Array and Its Application in Detection of Dissolved Oxygen. <i>Sensors</i> , 2015, 15, 382-393.  | 3.8 | 9         |
| 34 | Electrochemical sensing platform for tetrabromobisphenol A at pM level based on the synergetic enhancement effects of graphene and dioctadecyldimethylammonium bromide. <i>Analytica Chimica Acta</i> , 2016, 935, 90-96.                                | 5.4 | 7         |
| 35 | An Electrochemical Sensor System with Renewable Copper Nano-clusters Modified Electrode for Continuous Nitrate Determination. <i>IEEE Sensors Journal</i> , 2016, , 1-1.   | 4.7 | 6         |
| 36 | Reusable Boron-Doped Diamond Electrodes for the Semi-Continuous Detection of Tetrabromobisphenol A. <i>IEEE Sensors Journal</i> , 2018, 18, 5219-5224.   | 4.7 | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Piezoelectric micromotor based on the structure of serial bending arms. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1100-1104.  | 3.0 | 4         |
| 38 | Millimeter-sized nanomanipulator with sub-nanometer positioning resolution and large force output. , 2007, , .   |     | 3         |
| 39 | A Portable Sensor System for Determination of Copper Ions in Waters with Android Device. , 2019, , .   |     | 3         |
| 40 | Continuous flowing micro-reactor for aqueous reaction at temperature higher than 100â€™°C. Biomicrofluidics, 2013, 7, 034104.  | 2.4 | 2         |
| 41 | Electric field microsensors based on the structure of piezoelectric interdigitated cantilever beams. Journal of Electronics, 2014, 31, 497-504.  | 0.2 | 2         |
| 42 | A multi-parameter integrated chip system for water quality detection. International Journal of Modern Physics B, 2019, 33, 1950041.  | 2.0 | 2         |
| 43 | Design of a MEMS-Based Total Phosphorus Sensor with a Microdigestion System. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , . | 0.0 | 1         |
| 44 | Determination of total phosphorus in water environment by three-dimensional double coils microelectrode chip. , 2012, , .  |     | 1         |
| 45 | A micro electrochemical sensor with porous copper-clusters for total nitrogen determination in freshwaters. , 2013, , .  |     | 1         |
| 46 | Photocatalytic digestion of total phosphorus utilizing nanotitanium dioxide photocatalyst. Micro and Nano Letters, 2013, 8, 582-586.   | 1.3 | 1         |
| 47 | Cationic Surfactant Enhanced Detection of Tetrabromobisphenol A with Boron-doped Diamond Electrode. , 2019, , .  |     | 1         |
| 48 | Fabrication of a 3D interdigitated double-coil microelectrode chip by MEMS technique. Mikrochimica Acta, 2012, 177, 491-496.   | 5.0 | 0         |
| 49 | An electrochemical microsensors based on molybdophosphate complex for fast determination of total phosphorus in water. , 2013, , .   |     | 0         |
| 50 | Photocatalytic digestion of total phosphorus in the presence of H <sub>2</sub> O <sub>2</sub> utilizing nano-TiO <sub>2</sub> photocatalyst. , 2013, , .   |     | 0         |
| 51 | Mesoporous TiO <sub>2</sub> nano-spheres: Electro spray combined sol-gel fabrication and application to organic phosphorus degradation. Journal of Electronics, 2013, 30, 313-317.   | 0.2 | 0         |
| 52 | Fabrication and characterization of SnO <sub>2</sub> nanospheres for hydrogen detection. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2013, 227, 125-129.                           | 0.1 | 0         |
| 53 | Development of a portable total nitrogen detection system based on microelectrodes. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2014, 228, 46-51.                                  | 0.1 | 0         |