

# Edith Chow

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

1,866  
citations

21  
h-index

43  
g-index

49  
ext. papers

2,037  
ext. citations

4.7  
avg. IF

4.73  
L-index

#	Paper	IF	Citations
45	Recent advances in paper-based sensors. <i>Sensors</i> , <b>2012</b> , 12, 11505-26	3.8	474
44	DNA recognition interfaces: the influence of interfacial design on the efficiency and kinetics of hybridization. <i>Langmuir</i> , <b>2005</b> , 21, 6957-65	4	145
43	Exploring the use of the tripeptide Gly-Gly-his as a selective recognition element for the fabrication of electrochemical copper sensors. <i>Analyst, The</i> , <b>2003</b> , 128, 712-8	5	105
42	Peptide Modified Electrodes as Electrochemical Metal Ion Sensors. <i>Electroanalysis</i> , <b>2006</b> , 18, 1437-1448	3	96
41	Voltammetric detection of cadmium ions at glutathione-modified gold electrodes. <i>Analyst, The</i> , <b>2005</b> , 130, 831-7	5	73
40	The electrochemical detection of cadmium using surface-immobilized DNA. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 845-849	5.1	71
39	Inkjet-printed gold nanoparticle chemiresistors: influence of film morphology and ionic strength on the detection of organics dissolved in aqueous solution. <i>Analytica Chimica Acta</i> , <b>2009</b> , 632, 135-42	6.6	68
38	Gold nanoparticle chemiresistor sensors: direct sensing of organics in aqueous electrolyte solution. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 7333-9	7.8	68
37	Electrochemical detection of lead ions via the covalent attachment of human angiotensin I to mercaptopropionic acid and thiocctic acid self-assembled monolayers. <i>Analytica Chimica Acta</i> , <b>2005</b> , 543, 167-176	6.6	68
36	Study of Factors Affecting the Performance of Voltammetric Copper Sensors Based on Gly-Gly-His Modified Glassy Carbon and Gold Electrodes. <i>Electroanalysis</i> , <b>2006</b> , 18, 1141-1151	3	52
35	Analytical performance and characterization of MPA-Gly-Gly-His modified sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 540-548	8.5	52
34	Gold nanoparticle chemiresistor sensor array that differentiates between hydrocarbon fuels dissolved in artificial seawater. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3788-95	7.8	51
33	Sintered gold nanoparticles as an electrode material for paper-based electrochemical sensors. <i>RSC Advances</i> , <b>2013</b> , 3, 8683	3.7	50
32	Toward Paper-Based Sensors: Turning Electrical Signals into an Optical Readout System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19201-9	9.5	41
31	HisBerGlnLysValPhe as a selective ligand for the voltammetric determination of Cd <sup>2+</sup> . <i>Electrochemistry Communications</i> , <b>2005</b> , 7, 101-106	5.1	37
30	Detection of organics in aqueous solution using gold nanoparticles modified with mixed monolayers of 1-hexanethiol and 4-mercaptophenol. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 143, 704-711	8.5	36
29	Application of N-PLS calibration to the simultaneous determination of Cu(2+), Cd(2+) and Pb(2+) using peptide modified electrochemical sensors. <i>Analyst, The</i> , <b>2006</b> , 131, 1051-7	5	35

28	Gold Nanoparticle Chemiresistor Sensors in Aqueous Solution: Comparison of Hydrophobic and Hydrophilic Nanoparticle Films. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15390-15397	3.8	31
27	High-throughput fabrication and screening improves gold nanoparticle chemiresistor sensor performance. <i>ACS Combinatorial Science</i> , <b>2015</b> , 17, 120-9	3.9	29
26	Performance of graphene, carbon nanotube, and gold nanoparticle chemiresistor sensors for the detection of petroleum hydrocarbons in water. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	27
25	Biosensors for Detecting Metal Ions: New Trends. <i>Australian Journal of Chemistry</i> , <b>2003</b> , 56, 159	1.2	21
24	Characterization of the Sensor Response of Gold Nanoparticle Chemiresistors. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17529-17534	3.8	20
23	Extending the dynamic range of electrochemical sensors using multiple modified electrodes. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 387, 1489-98	4.4	20
22	Detection of bacterial metabolites for the discrimination of bacteria utilizing gold nanoparticle chemiresistor sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 220, 895-902	8.5	18
21	Gold nanoparticle chemiresistors operating in biological fluids. <i>Lab on A Chip</i> , <b>2012</b> , 12, 3040-8	7.2	18
20	Multi-analyte sensing: a chemometrics approach to understanding the merits of electrode arrays versus single electrodes. <i>Analyst, The</i> , <b>2008</b> , 133, 1090-6	5	17
19	An Integrated Paper-Based Readout System and Piezoresistive Pressure Sensor for Measuring Bandage Compression. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 1600143	6.8	15
18	A Potentiometric Sensor for pH Monitoring with an Integrated Electrochromic Readout on Paper. <i>Australian Journal of Chemistry</i> , <b>2017</b> , 70, 979	1.2	14
17	Dynamic response of gold nanoparticle chemiresistors to organic analytes in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 18208-16	3.6	14
16	Quantifying BTEX in aqueous solutions with potentially interfering hydrocarbons using a partially selective sensor array. <i>Analyst, The</i> , <b>2015</b> , 140, 3233-8	5	13
15	Quantifying mixtures of hydrocarbons dissolved in water with a partially selective sensor array using random forests analysis. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 279-285	8.5	13
14	Nanozymes for Environmental Pollutant Monitoring and Remediation. <i>Sensors</i> , <b>2021</b> , 21,	3.8	13
13	Direct plasma printing of nano-gold from an inorganic precursor. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 6369-6374	7.1	12
12	Application of Plasma-Printed Paper-Based SERS Substrate for Cocaine Detection. <i>Sensors</i> , <b>2021</b> , 21,	3.8	8
11	A balance-in-a-box: an integrated paper-based weighing balance for infant birth weight determination. <i>Analytical Methods</i> , <b>2017</b> , 9, 66-75	3.2	7

10	Solvent-induced modulation of the chemical sensing performance of gold nanoparticle film chemiresistors. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 284, 316-322	8.5	7
9	Chemical Sensor Array That Can Differentiate Complex Hydrocarbon Mixtures Dissolved in Seawater. <i>Sensor Letters</i> , <b>2011</b> , 9, 609-611	0.9	7
8	Flow-controlled synthesis of gold nanoparticles in a biphasic system with inline liquid-liquid separation. <i>Reaction Chemistry and Engineering</i> , <b>2020</b> , 5, 356-366	4.9	7
7	Electrochemical Detection of Heavy Metal Ions Using Amino Acids and Oligopeptides as Complexing Ligands. <i>Australian Journal of Chemistry</i> , <b>2005</b> , 58, 306	1.2	5
6	Transistor-Like Modulation of Gold Nanoparticle Film Conductivity Using Hydrophobic Ions. <i>Advanced Materials Interfaces</i> , <b>2014</b> , 1, 1400062	4.6	4
5	Influence of Gold Nanoparticle Film Porosity on the Chemiresistive Sensing Performance. <i>Electroanalysis</i> , <b>2013</b> , 25, n/a-n/a	3	2
4	Electrical noise in gold nanoparticle chemiresistors: Effects of measurement environment and organic linker properties <b>2010</b> ,		2
3	Detecting and discriminating pyrethroids with chemiresistor sensors. <i>Environmental Chemistry</i> , <b>2019</b> , 16, 553	3.2	0
2	Procedure 13 The determination of metal ions using peptide-modified electrodes. <i>Comprehensive Analytical Chemistry</i> , <b>2007</b> , 49, e83-e92	1.9	
1	Strong enhancement of gold nanoparticle chemiresistor response to low-partitioning organic analytes induced by pre-exposure to high partitioning organics. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 9117-9123	3.6	