

Thomas Ming Hung Lee

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9072168/thomas-ming-hung-lee-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| | | | |
|-------------------|-------------------------|----------------|-----------------|
| 34 papers | 1,890 citations | 23 h-index | 34 g-index |
| 34 ext. papers | 2,021 ext. citations | 6.8 avg, IF | 4.72 L-index |

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 34 | Label-free protein recognition using an aptamer-based impedance measurement assay. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 433-437 | 8.5 | 151 |
| 33 | An improved anodic bonding process using pulsed voltage technique. <i>Journal of Microelectromechanical Systems</i> , 2000 , 9, 469-473 | 2.5 | 132 |
| 32 | Nanocrystal-based bioelectronic coding of single nucleotide polymorphisms. <i>Journal of the American Chemical Society</i> , 2005 , 127, 38-9 | 16.4 | 127 |
| 31 | Microfabricated PCR-electrochemical device for simultaneous DNA amplification and detection. <i>Lab on A Chip</i> , 2003 , 3, 100-5 | 7.2 | 125 |
| 30 | A DNA biochip for on-the-spot multiplexed pathogen identification. <i>Nucleic Acids Research</i> , 2006 , 34, e118 | 20.1 | 118 |
| 29 | Label-free bioelectronic detection of aptamer-protein interactions. <i>Electrochemistry Communications</i> , 2005 , 7, 537-540 | 5.1 | 107 |
| 28 | Over-the-Counter Biosensors: Past, Present, and Future. <i>Sensors</i> , 2008 , 8, 5535-5559 | 3.8 | 96 |
| 27 | Immobilization-free sequence-specific electrochemical detection of DNA using ferrocene-labeled peptide nucleic acid. <i>Analytical Chemistry</i> , 2008 , 80, 7341-6 | 7.8 | 89 |
| 26 | Enhanced Electrochemical Detection of DNA Hybridization Based on Electrode-Surface Modification. <i>Langmuir</i> , 2003 , 19, 4338-4343 | 4 | 86 |
| 25 | Genotyping on a complementary metal oxide semiconductor silicon polymerase chain reaction chip with integrated DNA microarray. <i>Analytical Chemistry</i> , 2002 , 74, 3168-73 | 7.8 | 81 |
| 24 | Detailed characterization of anodic bonding process between glass and thin-film coated silicon substrates. <i>Sensors and Actuators A: Physical</i> , 2000 , 86, 103-107 | 3.9 | 73 |
| 23 | Electrochemical real-time polymerase chain reaction. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13374-5 | 16.4 | 72 |
| 22 | Electrochemistry-based real-time PCR on a microchip. <i>Analytical Chemistry</i> , 2008 , 80, 363-8 | 7.8 | 68 |
| 21 | DNA-based bioanalytical microsystems for handheld device applications. <i>Analytica Chimica Acta</i> , 2006 , 556, 26-37 | 6.6 | 67 |
| 20 | Precise temperature control of microfluidic chamber for gas and liquid phase reactions. <i>Sensors and Actuators A: Physical</i> , 2000 , 84, 11-17 | 3.9 | 64 |
| 19 | Tunable stabilization of gold nanoparticles in aqueous solutions by mononucleotides. <i>Langmuir</i> , 2007 , 23, 7143-7 | 4 | 58 |
| 18 | A miniaturized DNA amplifier: its application in traditional Chinese medicine. <i>Analytical Chemistry</i> , 2000 , 72, 4242-7 | 7.8 | 45 |

| | | | |
|----|---|-----|----|
| 17 | Platinum nanoparticles on reduced graphene oxide as peroxidase mimetics for the colorimetric detection of specific DNA sequence. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4076-4083 | 7.3 | 44 |
| 16 | Sharp tipped plastic hollow microneedle array by microinjection moulding. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 015016 | 2 | 43 |
| 15 | Ultrasensitive and closed-tube colorimetric loop-mediated isothermal amplification assay using carboxyl-modified gold nanoparticles. <i>Small</i> , 2014 , 10, 1495-9 | 11 | 41 |
| 14 | Effects of gold nanoparticle and electrode surface properties on electrocatalytic silver deposition for electrochemical DNA hybridization detection. <i>Analyst, The</i> , 2005 , 130, 364-9 | 5 | 38 |
| 13 | Sequence-specific electrochemical detection of asymmetric PCR amplicons of traditional Chinese medicinal plant DNA. <i>Analytical Chemistry</i> , 2002 , 74, 5057-62 | 7.8 | 33 |
| 12 | Gold Nanoparticle-Catalyzed Silver Electrodeposition on an Indium Tin Oxide Electrode and Its Application in DNA Hybridization Transduction. <i>Electroanalysis</i> , 2004 , 16, 1628-1631 | 3 | 28 |
| 11 | Silica-modified oligonucleotide-gold nanoparticle conjugate enables closed-tube colorimetric polymerase chain reaction. <i>Small</i> , 2012 , 8, 214-9 | 11 | 23 |
| 10 | Simple and Sensitive Electrochemical DNA Detection of Primer Generation-Rolling Circle Amplification. <i>Electroanalysis</i> , 2013 , 25, 1310-1315 | 3 | 18 |
| 9 | Precipitation of PEG/Carboxyl-Modified Gold Nanoparticles with Magnesium Pyrophosphate: A New Platform for Real-Time Monitoring of Loop-Mediated Isothermal Amplification. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10472-10480 | 9.5 | 16 |
| 8 | Chips and Qi: microcomponent-based analysis in traditional Chinese medicine. <i>Fresenius Journal of Analytical Chemistry</i> , 2001 , 371, 190-4 | | 15 |
| 7 | Viral MicroRNAs Encoded by Nucleocapsid Gene of SARS-CoV-2 Are Detected during Infection, and Targeting Metabolic Pathways in Host Cells. <i>Cells</i> , 2021 , 10, | 7.9 | 10 |
| 6 | Low cost fabrication of microelectrodes on plastic substrate. <i>Microsystem Technologies</i> , 2011 , 17, 361-366 | 7 | |
| 5 | A combined technique of photo-doping and MOCVD for the development of heterogeneous photo-Fenton catalyst. <i>Separation and Purification Technology</i> , 2009 , 67, 233-237 | 8.3 | 6 |
| 4 | Ultra-Stable oligonucleotide-gold and -silver nanoparticle conjugates prepared by a facile silica reinforcement method. <i>Nano Research</i> , 2012 , 5, 585-594 | 10 | 4 |
| 3 | Photolamination bonding for PMMA microfluidic chips. <i>Microsystem Technologies</i> , 2010 , 16, 1887-1891 | 1.7 | 4 |
| 2 | Targeting Inflammasome Activation in COVID-19: Delivery of RNA Interference-Based Therapeutic Molecules.. <i>Biomedicine</i> , 2021 , 9, | 4.8 | 1 |
| 1 | CHAPTER 13:POCT for Nucleic Acids by Using Colorimetric Nanoprobes. <i>RSC Detection Science</i> , 2020 , 279-302 | 0.4 | |