Thomas Ming Hung Lee

List of Publications by Year in Descending Order

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	Viral MicroRNAs Encoded by Nucleocapsid Gene of SARS-CoV-2 Are Detected during Infection, and Targeting Metabolic Pathways in Host Cells. *Cells*, **2021**, 10,	7.9	10
33	Targeting Inflammasome Activation in COVID-19: Delivery of RNA Interference-Based Therapeutic Molecules.. *Biomedicines*, **2021**, 9,	4.8	1
32	CHAPTER 13:POCT for Nucleic Acids by Using Colorimetric Nanoprobes. *RSC Detection Science*, **2020**, 279-302	0.4	
31	Precipitation of PEG/Carboxyl-Modified Gold Nanoparticles with Magnesium Pyrophosphate: A New Platform for Real-Time Monitoring of Loop-Mediated Isothermal Amplification. *ACS Applied Materials & Interfaces*, **2017**, 9, 10472-10480	9.5	16
30	Platinum nanoparticles on reduced graphene oxide as peroxidase mimetics for the colorimetric detection of specific DNA sequence. *Journal of Materials Chemistry B*, **2016**, 4, 4076-4083	7.3	44
29	Ultrasensitive and closed-tube colorimetric loop-mediated isothermal amplification assay using carboxyl-modified gold nanoparticles. *Small*, **2014**, 10, 1495-9	11	41
28	Simple and Sensitive Electrochemical DNA Detection of Primer Generation-Rolling Circle Amplification. *Electroanalysis*, **2013**, 25, 1310-1315	3	18
27	Sharp tipped plastic hollow microneedle array by microinjection moulding. *Journal of Micromechanics and Microengineering*, **2012**, 22, 015016	2	43
26	Ultra-Stable oligonucleotide-gold and -silver nanoparticle conjugates prepared by a facile silica reinforcement method. *Nano Research*, **2012**, 5, 585-594	10	4
25	Silica-modified oligonucleotide-gold nanoparticle conjugate enables closed-tube colorimetric polymerase chain reaction. *Small*, **2012**, 8, 214-9	11	23
24	Low cost fabrication of microelectrodes on plastic substrate. *Microsystem Technologies*, **2011**, 17, 361-366	2.7	7
23	Photolamination bonding for PMMA microfluidic chips. *Microsystem Technologies*, **2010**, 16, 1887-1891	1.7	4
22	A combined technique of photo-doping and MOCVD for the development of heterogeneous photo-Fenton catalyst. *Separation and Purification Technology*, **2009**, 67, 233-237	8.3	6
21	Over-the-Counter Biosensors: Past, Present, and Future. *Sensors*, **2008**, 8, 5535-5559	3.8	96
20	Electrochemistry-based real-time PCR on a microchip. *Analytical Chemistry*, **2008**, 80, 363-8	7.8	68
19	Immobilization-free sequence-specific electrochemical detection of DNA using ferrocene-labeled peptide nucleic acid. *Analytical Chemistry*, **2008**, 80, 7341-6	7.8	89
18	Tunable stabilization of gold nanoparticles in aqueous solutions by mononucleotides. *Langmuir*, **2007**, 23, 7143-7	4	58

17	Label-free protein recognition using an aptamer-based impedance measurement assay. *Sensors and Actuators B: Chemical*, **2006**, 114, 433-437	8.5	151
16	A DNA biochip for on-the-spot multiplexed pathogen identification. *Nucleic Acids Research*, **2006**, 34, e118	20.1	118
15	Electrochemical real-time polymerase chain reaction. *Journal of the American Chemical Society*, **2006**, 128, 13374-5	16.4	72
14	DNA-based bioanalytical microsystems for handheld device applications. *Analytica Chimica Acta*, **2006**, 556, 26-37	6.6	67
13	Nanocrystal-based bioelectronic coding of single nucleotide polymorphisms. *Journal of the American Chemical Society*, **2005**, 127, 38-9	16.4	127
12	Effects of gold nanoparticle and electrode surface properties on electrocatalytic silver deposition for electrochemical DNA hybridization detection. *Analyst, The*, **2005**, 130, 364-9	5	38
11	Label-free bioelectronic detection of aptamer–protein interactions. *Electrochemistry Communications*, **2005**, 7, 537-540	5.1	107
10	Gold Nanoparticle-Catalyzed Silver Electrodeposition on an Indium Tin Oxide Electrode and Its Application in DNA Hybridization Transduction. *Electroanalysis*, **2004**, 16, 1628-1631	3	28
9	Enhanced Electrochemical Detection of DNA Hybridization Based on Electrode-Surface Modification. *Langmuir*, **2003**, 19, 4338-4343	4	86
8	Microfabricated PCR-electrochemical device for simultaneous DNA amplification and detection. *Lab on A Chip*, **2003**, 3, 100-5	7.2	125
7	Sequence-specific electrochemical detection of asymmetric PCR amplicons of traditional Chinese medicinal plant DNA. *Analytical Chemistry*, **2002**, 74, 5057-62	7.8	33
6	Genotyping on a complementary metal oxide semiconductor silicon polymerase chain reaction chip with integrated DNA microarray. *Analytical Chemistry*, **2002**, 74, 3168-73	7.8	81
5	Chips and Qi: microcomponent-based analysis in traditional Chinese medicine. *Freseniust Journal of Analytical Chemistry*, **2001**, 371, 190-4		15
4	Detailed characterization of anodic bonding process between glass and thin-film coated silicon substrates. *Sensors and Actuators A: Physical*, **2000**, 86, 103-107	3.9	73
3	Precise temperature control of microfluidic chamber for gas and liquid phase reactions. *Sensors and Actuators A: Physical*, **2000**, 84, 11-17	3.9	64
2	A miniaturized DNA amplifier: its application in traditional Chinese medicine. *Analytical Chemistry*, **2000**, 72, 4242-7	7.8	45
1	An improved anodic bonding process using pulsed voltage technique. *Journal of Microelectromechanical Systems*, **2000**, 9, 469-473	2.5	132