

Kieu The Loan Trinh

List of Publications by Year in descending order

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36
papers

752
citations

516710

16
h-index

552781

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g-index

36
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36
docs citations

36
times ranked

678
citing authors

#	ARTICLE	IF	CITATIONS
1	Integration of a microfluidic polymerase chain reaction device and surface plasmon resonance fiber sensor into an inline all-in-one platform for pathogenic bacteria detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 1-8.	7.8	83
2	Fully integrated and slidable paper-embedded plastic microdevice for point-of-care testing of multiple foodborne pathogens. <i>Biosensors and Bioelectronics</i> , 2019, 135, 120-128.	10.1	83
3	Reproducible Enhancement of Fluorescence by Bimetal Mediated Surface Plasmon Coupled Emission for Highly Sensitive Quantitative Diagnosis of Double-stranded DNA. <i>Small</i> , 2018, 14, e1801385.	10.0	53
4	Rapid Fabrication of Poly(methyl methacrylate) Devices for Lab-on-a-Chip Applications Using Acetic Acid and UV Treatment. <i>ACS Omega</i> , 2020, 5, 17396-17404.	3.5	35
5	Flow-through PCR on a 3D qian-du-shaped polydimethylsiloxane (PDMS) microdevice employing a single heater: toward microscale multiplex PCR. <i>Analyst</i> , 2012, 137, 2069.	3.5	34
6	The highly sensitive determination of serotonin by using gold nanoparticles (Au NPs) with a localized surface plasmon resonance (LSPR) absorption wavelength in the visible region. <i>RSC Advances</i> , 2020, 10, 30858-30869.	3.6	31
7	Hand-held syringe as a portable plastic pump for on-chip continuous-flow PCR: miniaturization of sample injection device. <i>Analyst</i> , 2012, 137, 983-990.	3.5	30
8	Fabrication of Polymerase Chain Reaction Plastic Lab-on-a-Chip Device for Rapid Molecular Diagnoses. <i>International Neurourology Journal</i> , 2016, 20, S38-48.	1.2	28
9	Fabrication of a foldable all-in-one point-of-care molecular diagnostic microdevice for the facile identification of multiple pathogens. <i>Sensors and Actuators B: Chemical</i> , 2020, 314, 128057.	7.8	28
10	Green synthesis of microalgae-based carbon dots for decoration of TiO ₂ nanoparticles in enhancement of organic dye photodegradation. <i>Environmental Research</i> , 2022, 206, 112631.	7.5	26
11	Planar poly(dimethylsiloxane) (PDMS)-glass hybrid microdevice for a flow-through polymerase chain reaction (PCR) employing a single heater assisted by an intermediate metal alloy layer for temperature gradient formation. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 177-184.	7.8	25
12	Glass-polytetrafluoroethylene-glass based sandwich microdevice for continuous-flow polymerase chain reaction and its application for fast identification of foodborne pathogens. <i>Talanta</i> , 2018, 176, 544-550.	5.5	23
13	Clog-free and reliable solvent bonding of poly(methyl methacrylate) microdevice mediated by eco-friendly acetic acid at room temperature and its application for polymerase chain reaction and human cell culture. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 1008-1017.	7.8	20
14	Chitosan-polydopamine hydrogel complex: a novel green adhesion agent for reversibly bonding thermoplastic microdevice and its application for cell-friendly microfluidic 3D cell culture. <i>Lab on a Chip</i> , 2020, 20, 3524-3534.	6.0	20
15	Portable plastic syringe as a self-actuated pump for long-distance uniform delivery of liquid inside a microchannel and its application for flow-through polymerase chain reaction on chip. <i>RSC Advances</i> , 2015, 5, 12071-12077.	3.6	19
16	Flow-through polymerase chain reaction inside a seamless 3D helical microreactor fabricated utilizing a silicone tube and a paraffin mold. <i>Analyst</i> , 2015, 140, 1416-1420.	3.5	19
17	A portable microreactor with minimal accessories for polymerase chain reaction: application to the determination of foodborne pathogens. <i>Mikrochimica Acta</i> , 2017, 184, 4225-4233.	5.0	16
18	One-step DNA purification and amplification on an integrated plastic microdevice for on-site identification of foodborne pathogens. <i>Analytica Chimica Acta</i> , 2018, 1040, 63-73.	5.4	15

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19	Recent advances in the fabrication strategies of paper-based microfluidic devices for rapid detection of bacteria and viruses. <i>Microchemical Journal</i> , 2022, 180, 107548.	4.5	15
20	One-step glass-like coating of polycarbonate for seamless DNA purification and amplification on an integrated monolithic microdevice. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 1281-1289.	7.8	14
21	Fabrication of Wearable PDMS Device for Rapid Detection of Nucleic Acids via Recombinase Polymerase Amplification Operated by Human Body Heat. <i>Biosensors</i> , 2022, 12, 72.	4.7	14
22	Fabrication of a 3D Teflon microdevice for energy free homogeneous liquid flow inside a long microchannel and its application to continuous-flow PCR. <i>RSC Advances</i> , 2017, 7, 10624-10630.	3.6	13
23	Rapid and sensitive detection of Rhodamine B in food using the plasmonic silver nanocube-based sensor as SERS active substrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 263, 120179.	3.9	13
24	Pressure-driven one-step solid phase-based on-chip sample preparation on a microfabricated plastic device and integration with flow-through polymerase chain reaction (PCR). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 936, 88-94.	2.3	12
25	Poly(acrylic acid) as an adhesion promoter for UV-assisted thermoplastic bonding: Application for the in vitro construction of human blood vessels. <i>Materials Science and Engineering C</i> , 2021, 122, 111874.	7.3	12
26	Fluorescence Enhancement Using Bimetal Surface Plasmon-Coupled Emission from 5-Carboxyfluorescein (FAM). <i>Micromachines</i> , 2018, 9, 460.	2.9	10
27	Heat and pressure-resistant room temperature irreversible sealing of hybrid PDMS–thermoplastic microfluidic devices via carbon–nitrogen covalent bonding and its application in a continuous-flow polymerase chain reaction. <i>RSC Advances</i> , 2020, 10, 16502-16509.	3.6	9
28	Microdevice-based solid-phase polymerase chain reaction for rapid detection of pathogenic microorganisms. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2194-2204.	3.3	8
29	Microfluidic-based fabrication of alginate microparticles for protein delivery and its application in the in vitro chondrogenesis of mesenchymal stem cells. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 66, 102735.	3.0	8
30	Bent polydimethylsiloxane–polycarbonate hybrid microdevice for on-chip flow-through polymerase chain reaction employing a single heater. <i>Mikrochimica Acta</i> , 2014, 181, 1697-1705.	5.0	6
31	Fabrication of an integrated polystyrene microdevice for pre-concentration and amplification of <i>Escherichia coli</i> O157:H7 from raw milk. <i>Analytical Methods</i> , 2018, 10, 5071-5077.	2.7	6
32	Development of a highly sensitive sensor chip using optical diagnostic based on functionalized plasmonically active AuNPs. <i>Nanotechnology</i> , 2021, 32, 335505.	2.6	6
33	Pressure-Free Assembling of Poly(methyl methacrylate) Microdevices via Microwave-Assisted Solvent Bonding and Its Biomedical Applications. <i>Biosensors</i> , 2021, 11, 526.	4.7	6
34	Metal-enhanced sensing platform for the highly sensitive detection of C-reactive protein antibody and rhodamine B with applications in cardiovascular diseases and food safety. <i>Dalton Transactions</i> , 2021, 50, 6962-6974.	3.3	5
35	Fabrication of 3D continuous-flow reverse-transcription polymerase chain reaction microdevice integrated with on-chip fluorescence detection for semi-quantitative assessment of gene expression. <i>Analyst</i> , 2018, 143, 5692-5701.	3.5	4
36	Bimetallic Thin-Film Combination of Surface Plasmon Resonance-Based Optical Fiber Cladding with the Polarizing Homodyne Balanced Detection Method and Biomedical Assay Application. <i>Langmuir</i> , 2020, 36, 9967-9976.	3.5	3