

Ling Yu

List of Publications by Year in descending order

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91
papers

2,574
citations

201385

27
h-index

214527

47
g-index

94
all docs

94
docs citations

94
times ranked

4249
citing authors

#	ARTICLE	IF	CITATIONS
1	CSPG4 Protein as a New Target for the Antibody-Based Immunotherapy of Triple-Negative Breast Cancer. <i>Journal of the National Cancer Institute</i> , 2010, 102, 1496-1512.	3.0	148
2	pH-Controlled Construction of Chitosan/Alginate Multilayer Film: Characterization and Application for Antibody Immobilization. <i>Langmuir</i> , 2007, 23, 13046-13052.	1.6	134
3	Flow-through functionalized PDMS microfluidic channels with dextran derivative for ELISAs. <i>Lab on A Chip</i> , 2009, 9, 1243.	3.1	114
4	Disposable lateral flow-through strip for smartphone-camera to quantitatively detect alkaline phosphatase activity in milk. <i>Biosensors and Bioelectronics</i> , 2015, 69, 307-315.	5.3	108
5	Microfluidic paper-based analytical devices fabricated by low-cost photolithography and embossing of Parafilm [®] . <i>Lab on A Chip</i> , 2015, 15, 1642-1645.	3.1	107
6	A wearable, cotton thread/paper-based microfluidic device coupled with smartphone for sweat glucose sensing. <i>Cellulose</i> , 2019, 26, 4553-4562.	2.4	106
7	Advances of lab-on-a-chip in isolation, detection and post-processing of circulating tumour cells. <i>Lab on A Chip</i> , 2013, 13, 3163.	3.1	100
8	Fabrication of CeO ₂ nanoparticle-modified silk for UV protection and antibacterial applications. <i>Journal of Colloid and Interface Science</i> , 2014, 435, 8-14.	5.0	98
9	A β -carotene desaturase gene, <i>lbZDS</i> , increases β -carotene and lutein contents and enhances salt tolerance in transgenic sweetpotato. <i>Plant Science</i> , 2017, 262, 39-51.	1.7	64
10	Identification and Characterization of Dpo42, a Novel Depolymerase Derived from the Escherichia coli Phage ν B_EcoM_ECOO78. <i>Frontiers in Microbiology</i> , 2017, 8, 1460.	1.5	63
11	Facile and Low-Cost Fabrication of a Thread/Paper-Based Wearable System for Simultaneous Detection of Lactate and pH in Human Sweat. <i>Advanced Fiber Materials</i> , 2020, 2, 265-278.	7.9	60
12	DNA-templated Biomimetic Enzyme Sheets on Carbon Nanotubes to Sensitive In Situ Detect Superoxide Anions Released from Cells. <i>Advanced Functional Materials</i> , 2014, 24, 5897-5903.	7.8	59
13	PDGFR α up-regulation mediated by sonic hedgehog pathway activation leads to BRAF inhibitor resistance in melanoma cells with BRAF mutation. <i>Oncotarget</i> , 2014, 5, 1926-1941.	0.8	57
14	Efficient in situ growth of enzyme-inorganic hybrids on paper strips for the visual detection of glucose. <i>Biosensors and Bioelectronics</i> , 2018, 99, 603-611.	5.3	56
15	Functional Characterization of an scFv-Fc Antibody that Immunotherapeutically Targets the Common Cancer Cell Surface Proteoglycan CSPG4. <i>Cancer Research</i> , 2011, 71, 7410-7422.	0.4	54
16	Micro-machined piezoelectric membrane-based immunosensor array. <i>Biosensors and Bioelectronics</i> , 2008, 24, 638-643.	5.3	53
17	Poly(vinyl alcohol) Functionalized Poly(dimethylsiloxane) Solid Surface for Immunoassay. <i>Bioconjugate Chemistry</i> , 2007, 18, 281-284.	1.8	49
18	Fabrication of the FGF1-functionalized sericin hydrogels with cell proliferation activity for biomedical application using genetically engineered <i>Bombyx mori</i> (<i>B. mori</i>) silk. <i>Acta Biomaterialia</i> , 2018, 79, 239-252.	4.1	46

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19	Shape-controlled ceria-reduced graphene oxide nanocomposites toward high-sensitive in situ detection of nitric oxide. <i>Biosensors and Bioelectronics</i> , 2015, 70, 310-317.	5.3	44
20	Micro-piezoelectric immunoassay chip for simultaneous detection of Hepatitis B virus and Î±-fetoprotein. <i>Sensors and Actuators B: Chemical</i> , 2011, 151, 370-376.	4.0	37
21	High-performance UV-curable epoxy resin-based microarray and microfluidic immunoassay devices. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2997-3002.	5.3	35
22	Dual signal amplification of surface plasmon resonance imaging for sensitive immunoassay of tumor marker. <i>Analytical Biochemistry</i> , 2014, 453, 16-21.	1.1	35
23	Screen-printed analytical strip constructed with bacteria-templated porous N-doped carbon nanorods/Au nanoparticles for sensitive electrochemical detection of dopamine molecules. <i>Biosensors and Bioelectronics</i> , 2021, 186, 113303.	5.3	34
24	The CSPG4-specific monoclonal antibody enhances and prolongs the effects of the BRAF inhibitor in melanoma cells. <i>Immunologic Research</i> , 2011, 50, 294-302.	1.3	33
25	On-chip investigation of cell-drug interactions. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 1556-1574.	6.6	33
26	On-chip RT-LAMP and colorimetric detection of the prostate cancer 3 biomarker with an integrated thermal and imaging box. <i>Talanta</i> , 2020, 208, 120407.	2.9	32
27	Improved analytical performance of smartphone-based colorimetric analysis by using a power-free imaging box. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 253-261.	4.0	31
28	In situ preparation of porous metal-organic frameworks ZIF-8@Ag on poly-ether-ether-ketone with synergistic antibacterial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 205, 111920.	2.5	31
29	Efficient probe immobilization on poly (dimethylsiloxane) for sensitive detection of proteins. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 2848.	3.0	29
30	Optimization of printing buffer for protein microarrays based on aldehyde-modified glass slides. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 3768.	3.0	28
31	Atomic matching catalysis to realize a highly selective and sensitive biomimetic uric acid sensor. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111421.	5.3	28
32	Genetically engineered bi-functional silk material with improved cell proliferation and anti-inflammatory activity for medical application. <i>Acta Biomaterialia</i> , 2019, 86, 148-157.	4.1	28
33	Detection of alkaline phosphatase activity with a functionalized nanopipette. <i>Electrochemistry Communications</i> , 2019, 99, 71-74.	2.3	27
34	Transgenic Silkworm-Based Silk Gland Bioreactor for Large Scale Production of Bioactive Human Platelet-Derived Growth Factor (PDGF-BB) in Silk Cocoons. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2533.	1.8	25
35	Stimuli responsive PEGylated bismuth selenide hollow nanocapsules for fluorescence/CT imaging and light-driven multimodal tumor therapy. <i>Biomaterials Science</i> , 2019, 7, 3025-3040.	2.6	24
36	Transgenic PDGF-BB/sericin hydrogel supports for cell proliferation and osteogenic differentiation. <i>Biomaterials Science</i> , 2020, 8, 657-672.	2.6	23

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37	Facile Synthesis of Fe ₃ O ₄ @Tannic Acid@Au Nanocomposites as a Catalyst for 4-Nitrophenol and Methylene Blue Removal. ACS Omega, 2020, 5, 20903-20911.	1.6	23
38	Electrodes/paper sandwich devices for in situ sensing of hydrogen peroxide secretion from cells growing in gels-in-paper 3-dimensional matrix. Analytical Methods, 2014, 6, 4446-4454.	1.3	22
39	Involvement of superoxide and nitric oxide in BRAF ^{V600E} inhibitor PLX4032-induced growth inhibition of melanoma cells. Integrative Biology (United Kingdom), 2014, 6, 1211-1217.	0.6	21
40	Chitosan functionalization to prolong stable hydrophilicity of cotton thread for thread-based analytical device application. Cellulose, 2018, 25, 4831-4840.	2.4	21
41	A one-piece lateral flow impedimetric test strip for label-free clenbuterol detection. Analytical Methods, 2015, 7, 4957-4964.	1.3	20
42	Fast prototyping of a customized microfluidic device in a non-clean-room setting by cutting and laminating Parafilm®. RSC Advances, 2016, 6, 85468-85472.	1.7	18
43	Cohesive thermoplastic-assisted patterning and assembly of a textile-supported piezoresistive sensor for monitoring human vital signs. Smart Materials and Structures, 2018, 27, 105027.	1.8	17
44	Monitoring of TGF- β 1-Induced Human Lung Adenocarcinoma A549 Cells Epithelial-Mesenchymal Transformation Process by Measuring Cell Adhesion Force with a Microfluidic Device. Applied Biochemistry and Biotechnology, 2016, 178, 114-125.	1.4	16
45	Spontaneous formation of tumor spheroid on a hydrophilic filter paper for cancer stem cell enrichment. Colloids and Surfaces B: Biointerfaces, 2019, 174, 426-434.	2.5	16
46	Multipath exciton harvesting in diazine-based luminescent materials and their applications for organic light-emitting diodes. Journal of Materials Chemistry C, 2021, 9, 17265-17286.	2.7	16
47	Electrospinning Synthesis of Porous CoWO ₄ Nanofibers as an Ultrasensitive, Nonenzymatic, Hydrogen Peroxide Sensing Interface with Enhanced Electrocatalysis. ChemElectroChem, 2015, 2, 2061-2070.	1.7	15
48	DNA@Mn ₃ (PO ₄) ₂ Nanoparticles Supported with Graphene Oxide as Photoelectrodes for Photoelectrocatalysis. Nanoscale Research Letters, 2017, 12, 17.	3.1	14
49	Design and fabrication of highly sensitive and stable biochip for glucose biosensing. Applied Surface Science, 2017, 422, 900-904.	3.1	14
50	Fast Start-Up Microfluidic Microbial Fuel Cells With Serpentine Microchannel. Frontiers in Microbiology, 2018, 9, 2816.	1.5	14
51	Flexible electronic skin with nanostructured interfaces via flipping over electroless deposited metal electrodes. Journal of Colloid and Interface Science, 2019, 534, 618-624.	5.0	14
52	Multi-chamber petaloid root-growth chip for the non-destructive study of the development and physiology of the fibrous root system of <i>Oryza sativa</i> . Lab on A Chip, 2019, 19, 2383-2393.	3.1	13
53	A one-step tannic acid coating to improve cell adhesion and proliferation on polydimethylsiloxane. New Journal of Chemistry, 2020, 44, 15140-15147.	1.4	13
54	Prenatal exposure to organochlorine pesticides and infant growth: A longitudinal study. Environment International, 2021, 148, 106374.	4.8	13

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55	A cost-effective microdevice bridges microfluidic and conventional in vitro scratch / wound-healing assay for personalized therapy validation. <i>Biochip Journal</i> , 2016, 10, 56-64.	2.5	12
56	Genetic fabrication of functional silk mats with improved cell proliferation activity for medical applications. <i>Biomaterials Science</i> , 2019, 7, 4536-4546.	2.6	12
57	Sensitive colorimetric detection of ochratoxin A by a dual-functional Au/Fe ₃ O ₄ nanohybrid-based aptasensor. <i>RSC Advances</i> , 2019, 9, 38590-38596.	1.7	12
58	Adhesive tape-assisted etching of silk fibroin film with LiBr aqueous solution for microfluidic devices. <i>Materials Science and Engineering C</i> , 2021, 118, 111543.	3.8	12
59	Smartphone supported backlight illumination and image acquisition for microfluidic-based point-of-care testing. <i>Biomedical Optics Express</i> , 2018, 9, 4604.	1.5	11
60	Re-stickable All-Solid-State Supercapacitor Supported by Cohesive Thermoplastic for Textile Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45322-45331.	4.0	11
61	Integration of paper and micropipette tip to build a "sample-in, answer-out" point-of-care device. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	10
62	One-Step Dip-Coating-Fabricated Core-Shell Silk Fibroin Rice Paper Fibrous Scaffolds for 3D Tumor Spheroid Formation. <i>ACS Applied Bio Materials</i> , 2020, 3, 7462-7471.	2.3	10
63	Cutting and Bonding Parafilm [®] to Fast Prototyping Flexible Hanging Drop Chips for 3D Spheroid Cultures. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 187-199.	1.0	10
64	AFM study of adsorption of protein A on a poly(dimethylsiloxane) surface. <i>Nanotechnology</i> , 2009, 20, 285101.	1.3	9
65	Mitigated reactive oxygen species generation leads to an improvement of cell proliferation on poly[glycidyl methacrylate-co-poly(ethylene glycol) methacrylate] functionalized polydimethylsiloxane surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2987-2997.	2.1	9
66	Label-Free Detection of Chondroitin Sulphate Proteoglycan 4 by a Polyaniline/Graphene Nanocomposite Functionalized Impedimetric Immunosensor. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-8.	1.5	9
67	Separation and Characterization of Prostate Cancer Cell Subtype according to Their Motility Using a Multi-Layer CiGiP Culture. <i>Micromachines</i> , 2018, 9, 660.	1.4	9
68	Redefining Chinese calligraphy rice paper: an economical and cytocompatible substrate for cell biological assays. <i>RSC Advances</i> , 2017, 7, 41017-41023.	1.7	8
69	Ultrasensitive and regenerable nanopore sensing based on target induced aptamer dissociation. <i>Biosensors and Bioelectronics</i> , 2020, 152, 112011.	5.3	8
70	Constructing Silk Fibroin-Based Three-Dimensional Microfluidic Devices via a Tape Mask-Assisted Multiple-Step Etching Technique. <i>ACS Applied Bio Materials</i> , 2021, 4, 8039-8048.	2.3	8
71	One-post patterning of multiple protein gradients using a low-cost flash foam stamp. <i>Chemical Communications</i> , 2015, 51, 17588-17591.	2.2	7
72	Fast and low-cost patterning of electrodes on versatile 2D and 3D substrates by cutting and origami cohesive thermoplastic for biosensing applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2431-2436.	4.0	7

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73	Co3O4 Nanoparticles Uniformly Dispersed in Rational Porous Carbon Nano-Boxes for Significantly Enhanced Electrocatalytic Detection of H2O2 Released from Living Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3799.	1.8	7
74	Bi-Module Sensing Device to In Situ Quantitatively Detect Hydrogen Peroxide Released from Migrating Tumor Cells. <i>PLoS ONE</i> , 2015, 10, e0127610.	1.1	6
75	Biosensors based on flexural mode piezo-diaphragm. , 2008, , .		5
76	Versatile microfluidic complement fixation test for disease biomarker detection. <i>Analytica Chimica Acta</i> , 2016, 916, 67-76.	2.6	5
77	A smartphone-supported portable micro-spectroscopy/imaging system to characterize morphology and spectra of samples at the microscale. <i>Analytical Methods</i> , 2020, 12, 4166-4171.	1.3	5
78	Controlled release of metal phenolic network protected phage for treating bacterial infection. <i>Nanotechnology</i> , 2022, 33, 165102.	1.3	5
79	Atom transfer radical polymerization to fabricate monodisperse poly[glycidyl methacrylate-co-poly(ethylene glycol) methacrylate] microspheres and its application for protein affinity purification. <i>Journal of Colloid and Interface Science</i> , 2015, 453, 151-158.	5.0	4
80	Probing of peripheral blood mononuclear cells anchoring on TNF-alpha challenged-vascular endothelia in an in vitro model of the retinal microvascular. <i>Biomedical Microdevices</i> , 2017, 19, 54.	1.4	4
81	Freeze-drying prepared ready-to-use gelatin @polypropylene nonwoven hybrid sheet for stacking 3D cell culture. <i>Cellulose</i> , 2019, 26, 6755-6768.	2.4	4
82	Tumor Antigen-Specific Monoclonal Antibody-Based Immunotherapy, Cancer Initiating Cells and Disease Recurrence. <i>Resistance To Targeted Anti-cancer Therapeutics</i> , 2013, , 25-47.	0.1	4
83	Combining complement fixation and luminol chemiluminescence for ultrasensitive detection of avian influenza A rH7N9. <i>Analyst, The</i> , 2016, 141, 2061-2066.	1.7	3
84	3D-Printed seed planter and well array for high-throughput seed germination screening. <i>Integrative Biology (United Kingdom)</i> , 2018, 10, 67-73.	0.6	3
85	Hydrophilic Porous Polydimethylsiloxane Sponge as a Novel 3D Matrix Mimicking Heterogeneous Pores in Soil for Plant Cultivation. <i>Polymers</i> , 2020, 12, 140.	2.0	3
86	Microfluidic Paper-Based Analytical Devices for Point-of-Care Diagnosis. , 2017, , 365-396.		2
87	Label-free electrochemical sensor to investigate the effect of tocopherol on generation of superoxide ions following UV irradiation. <i>Journal of Biological Engineering</i> , 2018, 12, 17.	2.0	2
88	A Foldable Chip Array for the Continuous Investigation of Seed Germination and the Subsequent Root Development of Seedlings. <i>Micromachines</i> , 2019, 10, 884.	1.4	2
89	Self-Polarized Piezoelectric Biosensor Array for Multiple Immunoassays Applications. , 2009, , .		0
90	Abstract 3703: PDGFR α up-regulation mediated by Sonic Hedgehog Pathway activation leads to BRAF inhibitor resistance in melanoma cells with BRAF mutation. , 2014, , .		0

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91	Lyophilized Gelatin@non-Woven Scaffold to Promote Spheroids Formation and Enrich Cancer Stem Cell Incidence. <i>Nanomaterials</i> , 2022, 12, 808.	1.9	0