

Tian-Cai Liu

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84
papers

1,297
citations

21
h-index

32
g-index

92
ext. papers

1,543
ext. citations

4.6
avg, IF

4.36
L-index

#	Paper	IF	Citations
84	Temperature-dependent photoluminescence of water-soluble quantum dots for a bioprobe. <i>Analytica Chimica Acta</i> , 2006 , 559, 120-123	6.6	80
83	Development of an immunomagnetic bead-based time-resolved fluorescence immunoassay for rapid determination of levels of carcinoembryonic antigen in human serum. <i>Analytica Chimica Acta</i> , 2012 , 734, 93-8	6.6	67
82	Simultaneous quantitation of cytokeratin-19 fragment and carcinoembryonic antigen in human serum via quantum dot-doped nanoparticles. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 60-65	11.8	66
81	Quantum-dot-based homogeneous time-resolved fluoroimmunoassay of alpha-fetoprotein. <i>Analytica Chimica Acta</i> , 2012 , 741, 100-5	6.6	54
80	Preparation of silica encapsulated quantum dot encoded beads for multiplex assay and its properties. <i>Analytical Biochemistry</i> , 2006 , 351, 193-200	3.1	53
79	A Novel Phytochemical, DIM, Inhibits Proliferation, Migration, Invasion and TNF- α Induced Inflammatory Cytokine Production of Synovial Fibroblasts From Rheumatoid Arthritis Patients by Targeting MAPK and AKT/mTOR Signal Pathway. <i>Frontiers in Immunology</i> , 2019 , 10, 1620	8.4	44
78	Characterization of the coupling of quantum dots and immunoglobulin antibodies. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 1665-71	4.4	42
77	Extracellular translationally controlled tumor protein promotes colorectal cancer invasion and metastasis through Cdc42/JNK/ MMP9 signaling. <i>Oncotarget</i> , 2016 , 7, 50057-50073	3.3	38
76	The fluorescence bioassay platforms on quantum dots nanoparticles. <i>Journal of Fluorescence</i> , 2005 , 15, 729-33	2.4	37
75	A flow cytometric assay technology based on quantum dots-encoded beads. <i>Analytica Chimica Acta</i> , 2006 , 580, 18-23	6.6	35
74	Multi-color encoding of polystyrene microbeads with CdSe/ZnS quantum dots and its application in immunoassay. <i>Journal of Colloid and Interface Science</i> , 2007 , 316, 622-7	9.3	33
73	Rapid and sensitive lateral flow immunoassay method for determining alpha fetoprotein in serum using europium (III) chelate microparticles-based lateral flow test strips. <i>Analytica Chimica Acta</i> , 2015 , 891, 277-83	6.6	27
72	A novel homogeneous time-resolved fluoroimmunoassay for carcinoembryonic antigen based on water-soluble quantum dots. <i>Journal of Fluorescence</i> , 2013 , 23, 649-57	2.4	25
71	Semiconductor quantum dots in tumor research. <i>Journal of Luminescence</i> , 2019 , 209, 61-68	3.8	23
70	SCCA, TSGF, and the Long Non-Coding RNA AC007271.3 are Effective Biomarkers for Diagnosing Oral Squamous Cell Carcinoma. <i>Cellular Physiology and Biochemistry</i> , 2018 , 47, 26-38	3.9	23
69	Rapid quantitation of human epididymis protein 4 in human serum by amplified luminescent proximity homogeneous immunoassay (AlphaLISA). <i>Journal of Immunological Methods</i> , 2016 , 437, 64-9	2.5	22
68	A novel immunoassay for the quantization of CYFRA 21-1 in human serum. <i>Journal of Clinical Laboratory Analysis</i> , 2013 , 27, 277-83	3	22

67	Magnetic particle-based time-resolved fluoroimmunoassay for the simultaneous determination of β -fetoprotein and the free β -subunit of human chorionic gonadotropin. <i>Analyst, The</i> , 2013 , 138, 3697-704	5	22
66	Development of a dual-label time-resolved fluoroimmunoassay for the detection of β -fetoprotein and hepatitis B virus surface antigen. <i>Luminescence</i> , 2013 , 28, 401-6	2.5	21
65	The study of physics and thermal characteristics for in-hospital neutron irradiator (IHNI). <i>Applied Radiation and Isotopes</i> , 2009 , 67, S234-7	1.7	21
64	Bioconjugate recognition molecules to quantum dots as tumor probes. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 1209-1216	5.4	21
63	Study on molecular interactions between proteins on live cell membranes using quantum dot-based fluorescence resonance energy transfer. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 2819-24	4.4	21
62	Continuous wave-based multiphoton excitation fluorescence for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2006 , 1109, 160-6	4.5	21
61	Optimization of the methods for introduction of amine groups onto the silica nanoparticle surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 80, 752-7	5.4	20
60	Development of an improved time-resolved fluoroimmunoassay for simultaneous quantification of C-peptide and insulin in human serum. <i>Clinical Biochemistry</i> , 2014 , 47, 439-44	3.5	19
59	Simultaneous determination of the cytokeratin 19 fragment and carcinoembryonic antigen in human serum by magnetic nanoparticle-based dual-label time-resolved fluoroimmunoassay. <i>RSC Advances</i> , 2014 , 4, 55229-55236	3.7	18
58	A Fluorescence Immunochromatographic Assay Using Europium (III) Chelate Microparticles for Rapid, Quantitative and Sensitive Detection of Creatine Kinase MB. <i>Journal of Fluorescence</i> , 2016 , 26, 987-96	2.4	18
57	A near-infrared light-controlled smart nanocarrier with reversible polypeptide-engineered valve for targeted fluorescence-photoacoustic bimodal imaging-guided chemo-photothermal therapy. <i>Theranostics</i> , 2019 , 9, 7666-7679	12.1	17
56	A feasible and quantitative encoding method for microbeads with multicolor quantum dots. <i>Journal of Fluorescence</i> , 2007 , 17, 133-8	2.4	16
55	Development and Delivery Systems of mRNA Vaccines. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 718753	5.8	15
54	Europium (III) chelate microparticle-based lateral flow immunoassay strips for rapid and quantitative detection of antibody to hepatitis B core antigen. <i>Scientific Reports</i> , 2017 , 7, 14093	4.9	14
53	Ultrasensitive Sensor Using Quantum Dots-Doped Polystyrene Nanospheres for Clinical Diagnostics of Low-Volume Serum Samples. <i>Analytical Chemistry</i> , 2019 , 91, 5777-5785	7.8	14
52	A time-resolved fluoroimmunoassay for the quantitation of rabies virus nucleoprotein in the rabies vaccine. <i>Journal of Virological Methods</i> , 2014 , 206, 89-94	2.6	14
51	Development of an amplified luminescent proximity homogeneous assay for quantitative determination of hepatitis B surface antigen in human serum. <i>Clinica Chimica Acta</i> , 2013 , 426, 139-44	6.2	14
50	Quantum dot optical encoded polystyrene beads for DNA detection. <i>Journal of Biomedical Optics</i> , 2006 , 11, 054025	3.5	14

49	Simple and accurate visual detection of single nucleotide polymorphism based on colloidal gold nucleic acid strip biosensor and primer-specific PCR. <i>Analytica Chimica Acta</i> , 2020 , 1093, 106-114	6.6	14
48	Establishment of a novel homogeneous nanoparticle-based assay for sensitive procalcitonin detection of ultra low-volume serum samples. <i>International Journal of Nanomedicine</i> , 2018 , 13, 5395-5404	7.3	14
47	contributes to epithelial-mesenchymal transition (EMT) by activating AKT signaling pathway and regulating MMP-2 expression. <i>Cancer Management and Research</i> , 2019 , 11, 2415-2424	3.6	13
46	Fluorescence resonance energy transfer between FITC and water-soluble CdSe/ZnS quantum dots. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 302, 168-173	5.1	13
45	Translated Long Non-Coding Ribonucleic Acid ZFAS1 Promotes Cancer Cell Migration by Elevating Reactive Oxygen Species Production in Hepatocellular Carcinoma. <i>Frontiers in Genetics</i> , 2019 , 10, 1111	4.5	12
44	The application of quantum dots as fluorescent label to glycoarray. <i>Analytical Biochemistry</i> , 2005 , 340, 52-6	3.1	12
43	Tanshinone IIA Suppresses Proliferation and Inflammatory Cytokine Production of Synovial Fibroblasts from Rheumatoid Arthritis Patients Induced by TNF- α and Attenuates the Inflammatory Response in AIA Mice. <i>Frontiers in Pharmacology</i> , 2020 , 11, 568	5.6	11
42	Simultaneous quantitation of carbohydrate antigen 125 and carcinoembryonic antigen in human serum via time-resolved fluoroimmunoassay. <i>Clinica Chimica Acta</i> , 2018 , 483, 222-226	6.2	11
41	A time-resolved fluoroimmunoassay to assay the rabies virus glycoprotein: application for estimation of human rabies vaccine potency. <i>Scientific Reports</i> , 2017 , 7, 7288	4.9	10
40	WAP four-disulfide core domain protein 2 promotes metastasis of human ovarian cancer by regulation of metastasis-associated genes. <i>Journal of Ovarian Research</i> , 2017 , 10, 40	5.5	9
39	A rapid and sensitive method based on magnetic beads for the detection of hepatitis B virus surface antigen in human serum. <i>Luminescence</i> , 2014 , 29, 591-7	2.5	9
38	AlphaLISA for the determination of median levels of the free β subunit of human chorionic gonadotropin in the serum of pregnant women. <i>Journal of Immunoassay and Immunochemistry</i> , 2013 , 34, 134-48	1.8	9
37	Measurement of urinary matrix metalloproteinase-7 for early diagnosis of acute kidney injury based on an ultrasensitive immunomagnetic microparticle-based time-resolved fluoroimmunoassay. <i>Clinica Chimica Acta</i> , 2019 , 490, 55-62	6.2	9
36	Development of a novel immunoassay for the simple and fast quantitation of neutrophil gelatinase-associated lipocalin using europium(III) chelate microparticles and magnetic beads. <i>Journal of Immunological Methods</i> , 2019 , 470, 15-19	2.5	8
35	Dual-labeled time-resolved immunofluorometric assay for the determination of IgM antibodies to rubella virus and cytomegalovirus in human serum. <i>Clinical Biochemistry</i> , 2015 , 48, 603-8	3.5	8
34	Development of a time-resolved fluoroimmunoassay for Epstein-Barr virus viral capsid antigen IgA antibody in human serum. <i>Journal of Virological Methods</i> , 2015 , 222, 16-21	2.6	7
33	Development of a novel chemiluminescence immunoassay for the detection of procalcitonin. <i>Journal of Immunological Methods</i> , 2020 , 484-485, 112829	2.5	7
32	WAP four-disulfide core domain protein 2 gene(WFDC2) is a target of estrogen in ovarian cancer cells. <i>Journal of Ovarian Research</i> , 2016 , 9, 10	5.5	7

31	RBPTD: a database of cancer-related RNA-binding proteins in humans. <i>Database: the Journal of Biological Databases and Curation</i> , 2020 , 2020,	5	6
30	One-for-All Nanoplatform for Synergistic Mild Cascade-Potentiated Ultrasound Therapy Induced with Targeting Imaging-Guided Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40052-40066	9.5	6
29	A Simple, Rapid, and Highly Sensitive Electrochemical DNA Sensor for the Detection of β -thalassemia in China. <i>Journal of Clinical Laboratory Analysis</i> , 2016 , 30, 719-26	3	6
28	Development of a time-resolved fluorescence immunoassay for herpes simplex virus type 1 and type 2 IgG antibodies. <i>Luminescence</i> , 2015 , 30, 649-54	2.5	5
27	Quantum Dot-Based Luminescent Oxygen Channeling Assay for Potential Application in Homogeneous Bioassays. <i>Journal of Fluorescence</i> , 2016 , 26, 317-22	2.4	5
26	Development of a novel immunoassay to detect interactions with the transactivation domain of p53: application to screening of new drugs. <i>Scientific Reports</i> , 2017 , 7, 9185	4.9	5
25	A one-step RT-PCR array for detection and differentiation of zoonotic influenza viruses H5N1, H9N2, and H1N1. <i>Journal of Clinical Laboratory Analysis</i> , 2013 , 27, 450-60	3	5
24	A magnetic nanoparticle-based time-resolved fluoroimmunoassay for determination of the cytokeratin 19 fragment in human serum. <i>Journal of Fluorescence</i> , 2015 , 25, 361-7	2.4	4
23	Effect of temperature on the photoproperties of luminescent terbium sensors for homogeneous bioassays. <i>Luminescence</i> , 2013 , 28, 156-61	2.5	4
22	Dual-Labeled Time-Resolved Immunofluorometric Assay for the Simultaneous Quantitative Detection of Hepatitis B Virus Antigens in Human Serum. <i>Journal of Fluorescence</i> , 2017 , 27, 309-316	2.4	4
21	Development of a time-resolved fluorescence immunoassay for Epstein-Barr virus nuclear antigen 1-immunoglobulin A in human serum. <i>Journal of Medical Virology</i> , 2015 , 87, 1940-5	19.7	4
20	Labelled antibody-based one-step time-resolved fluoroimmunoassay for measurement of free thyroxine in serum. <i>Annals of Clinical Biochemistry</i> , 2011 , 48, 550-7	2.2	4
19	Targeting procalcitonin with novel murine monoclonal antibodies. <i>Hybridoma</i> , 2010 , 29, 189-94		4
18	A monoclonal antibody against a potential cancer biomarker, human ubiquitin-conjugating enzyme E2. <i>Hybridoma</i> , 2012 , 31, 196-202		4
17	Establishment of Magnetic Microparticles-Assisted Time-Resolved Fluoroimmunoassay for Determinating Biomarker Models in Human Serum. <i>PLoS ONE</i> , 2015 , 10, e0130481	3.7	4
16	Tspan5 promotes epithelial-mesenchymal transition and tumour metastasis of hepatocellular carcinoma by activating Notch signalling. <i>Molecular Oncology</i> , 2021 , 15, 3184-3202	7.9	4
15	Rapid Monitoring of Vancomycin Concentration in Serum Using Europium (III) Chelate Nanoparticle-Based Lateral Flow Immunoassay. <i>Frontiers in Chemistry</i> , 2021 , 9, 763686	5	3
14	Development of a high-throughput and sensitive assay of fusion genes in lung cancer by array-based MALDI-TOFMS.. <i>RSC Advances</i> , 2018 , 8, 27935-27945	3.7	2

13	A new technology for revealing the flow profile in integrated lab-on-a-chip. <i>Medical Physics</i> , 2012 , 39, 5060-4	4.4	2
12	Plasma-Derived Extracellular Vesicles Circular RNAs Serve as Biomarkers for Breast Cancer Diagnosis.. <i>Frontiers in Oncology</i> , 2021 , 11, 752651	5.3	2
11	A transformable gold nanocluster aggregate-based synergistic strategy for potentiated radiation/gene cancer therapy. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 2314-2322	7.3	2
10	Detection of Janus-activated kinase-1 and its interacting proteins by the method of luminescent oxygen channeling. <i>RSC Advances</i> , 2017 , 7, 9639-9644	3.7	1
9	Development of a time-resolved fluorescence immunoassay for Epstein-Barr virus Zta IgA antibodies in human serum. <i>Viral Immunology</i> , 2015 , 28, 179-83	1.7	1
8	Europium (III) chelate nanoparticle-based lateral flow immunoassay strips for rapid and quantitative detection of cystatin C in serum.. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2022 , 1194, 123133	3.2	1
7	A chemiluminescence immunoassay for precise automatic quality control of glycoprotein in human rabies vaccine. <i>Vaccine</i> , 2021 , 39, 7470-7470	4.1	1
6	A homogeneous immunoassay for detection of the interaction between two tumor biomarkers of IGF1R and SOCS1. <i>Biotechnology and Applied Biochemistry</i> , 2021 , 68, 769-775	2.8	1
5	Dual-color quantum dot-loaded nanoparticles based lateral flow biosensor for the simultaneous detection of gastric cancer markers in a single test line. <i>Analytica Chimica Acta</i> , 2022 , 339998	6.6	1
4	CRISPR-Cas13a-based diagnostic method for from nongonococcal urethritis. <i>Bioanalysis</i> , 2021 , 13, 901-912	9.1	0
3	Quantitative doping of commercial polystyrene microbeads with quantum dots 2006 , 6026, 385		
2	Prospects for CVR-0: A Prototype of China Virtual Reactor. <i>Communications in Computer and Information Science</i> , 2019 , 107-125	0.3	
1	PreS/2-21-Guided siRNA Nanoparticles Target to Inhibit Hepatitis B Virus Infection and Replication.. <i>Frontiers in Immunology</i> , 2022 , 13, 856463	8.4	