Tian-Cai Liu

List of Publications by Year in Descending Order

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	Europium (III) chelate nanoparticle-based lateral flow immunoassay strips for rapid and quantitative detection of cystatin C in serum.. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2022**, 1194, 123133	3.2	1
83	PreS/2-21-Guided siRNA Nanoparticles Target to Inhibit Hepatitis B Virus Infection and Replication.. *Frontiers in Immunology*, **2022**, 13, 856463	8.4	
82	Dual-color quantum dot-loaded nanoparticles based lateral flow biosensor for the simultaneous detection of gastric cancer markers in a single test line. *Analytica Chimica Acta*, **2022**, 339998	6.6	1
81	A chemiluminescence immunoassay for precise automatic quality control of glycoprotein in human rabies vaccine. *Vaccine*, **2021**, 39, 7470-7470	4.1	1
80	Plasma-Derived Extracellular Vesicles Circular RNAs Serve as Biomarkers for Breast Cancer Diagnosis.. *Frontiers in Oncology*, **2021**, 11, 752651	5.3	2
79	Rapid Monitoring of Vancomycin Concentration in Serum Using Europium (III) Chelate Nanoparticle-Based Lateral Flow Immunoassay. *Frontiers in Chemistry*, **2021**, 9, 763686	5	3
78	A homogeneous immunoassay for detection of the interaction between two tumor biomarkers of IGF1R-and SOCS1. *Biotechnology and Applied Biochemistry*, **2021**, 68, 769-775	2.8	1
77	CRISPR-Cas13a-based diagnostic method for from nongonococcal urethritis. *Bioanalysis*, **2021**, 13, 901-912	2.1	0
76	Development and Delivery Systems of mRNA Vaccines. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 718753	5.8	15
75	A transformable gold nanocluster aggregate-based synergistic strategy for potentiated radiation/gene cancer therapy. *Journal of Materials Chemistry B*, **2021**, 9, 2314-2322	7.3	2
74	Tspan5 promotes epithelial-mesenchymal transition and tumour metastasis of hepatocellular carcinoma by activating Notch signalling. *Molecular Oncology*, **2021**, 15, 3184-3202	7.9	4
73	Tanshinone IIA Suppresses Proliferation and Inflammatory Cytokine Production of Synovial Fibroblasts from Rheumatoid Arthritis Patients Induced by TNF-and Attenuates the Inflammatory Response in AIA Mice. *Frontiers in Pharmacology*, **2020**, 11, 568	5.6	11
72	RBPTD: a database of cancer-related RNA-binding proteins in humans. *Database: the Journal of Biological Databases and Curation*, **2020**, 2020,	5	6
71	Development of a novel chemiluminescence immunoassay for the detection of procalcitonin. *Journal of Immunological Methods*, **2020**, 484-485, 112829	2.5	7
70	One-for-All Nanoplatform for Synergistic Mild Cascade-Potentiated Ultrasound Therapy Induced with Targeting Imaging-Guided Photothermal Therapy. *ACS Applied Materials & Interfaces*, **2020**, 12, 40052-40066	9.5	6
69	Simple and accurate visual detection of single nucleotide polymorphism based on colloidal gold nucleic acid strip biosensor and primer-specific PCR. *Analytica Chimica Acta*, **2020**, 1093, 106-114	6.6	14
68	Semiconductor quantum dots in tumor research. *Journal of Luminescence*, **2019**, 209, 61-68	3.8	23

67	contributes to epithelial-mesenchymal transition (EMT) by activating AKT signaling pathway and regulating MMP-2 expression. *Cancer Management and Research*, **2019**, 11, 2415-2424	3.6	13
66	Development of a novel immunoassay for the simple and fast quantitation of neutrophil gelatinase-associated lipocalin using europium(III) chelate microparticles and magnetic beads. *Journal of Immunological Methods*, **2019**, 470, 15-19	2.5	8
65	Ultrasensitive Sensor Using Quantum Dots-Doped Polystyrene Nanospheres for Clinical Diagnostics of Low-Volume Serum Samples. *Analytical Chemistry*, **2019**, 91, 5777-5785	7.8	14
64	A Novel Phytochemical, DIM, Inhibits Proliferation, Migration, Invasion and TNF-□Induced Inflammatory Cytokine Production of Synovial Fibroblasts From Rheumatoid Arthritis Patients by Targeting MAPK and AKT/mTOR Signal Pathway. *Frontiers in Immunology*, **2019**, 10, 1620	8.4	44
63	A near-infrared light-controlled smart nanocarrier with reversible polypeptide-engineered valve for targeted fluorescence-photoacoustic bimodal imaging-guided chemo-photothermal therapy. *Theranostics*, **2019**, 9, 7666-7679	12.1	17
62	Translated Long Non-Coding Ribonucleic Acid ZFAS1 Promotes Cancer Cell Migration by Elevating Reactive Oxygen Species Production in Hepatocellular Carcinoma. *Frontiers in Genetics*, **2019**, 10, 1111	4.5	12
61	Prospects for CVR-0: A Prototype of China Virtual Reactor. *Communications in Computer and Information Science*, **2019**, 107-125	0.3	
60	Measurement of urinary matrix metalloproteinase-7 for early diagnosis of acute kidney injury based on an ultrasensitive immunomagnetic microparticle-based time-resolved fluoroimmunoassay. *Clinica Chimica Acta*, **2019**, 490, 55-62	6.2	9
59	Development of a high-throughput and sensitive assay of fusion genes in lung cancer by array-based MALDI-TOFMS.. *RSC Advances*, **2018**, 8, 27935-27945	3.7	2
58	Establishment of a novel homogeneous nanoparticle-based assay for sensitive procalcitonin detection of ultra low-volume serum samples. *International Journal of Nanomedicine*, **2018**, 13, 5395-5404	7.3	14
57	SCCA, TSGF, and the Long Non-Coding RNA AC007271.3 are Effective Biomarkers for Diagnosing Oral Squamous Cell Carcinoma. *Cellular Physiology and Biochemistry*, **2018**, 47, 26-38	3.9	23
56	Simultaneous quantitation of carbohydrate antigen 125 and carcinoembryonic antigen in human serum via time-resolved fluoroimmunoassay. *Clinica Chimica Acta*, **2018**, 483, 222-226	6.2	11
55	Detection of Janus-activated kinase-1 and its interacting proteins by the method of luminescent oxygen channeling. *RSC Advances*, **2017**, 7, 9639-9644	3.7	1
54	Simultaneous quantitation of cytokeratin-19 fragment and carcinoembryonic antigen in human serum via quantum dot-doped nanoparticles. *Biosensors and Bioelectronics*, **2017**, 91, 60-65	11.8	66
53	Europium (III) chelate microparticle-based lateral flow immunoassay strips for rapid and quantitative detection of antibody to hepatitis B core antigen. *Scientific Reports*, **2017**, 7, 14093	4.9	14
52	WAP four-disulfide core domain protein 2 promotes metastasis of human ovarian cancer by regulation of metastasis-associated genes. *Journal of Ovarian Research*, **2017**, 10, 40	5.5	9
51	Development of a novel immunoassay to detect interactions with the transactivation domain of p53: application to screening of new drugs. *Scientific Reports*, **2017**, 7, 9185	4.9	5
50	A time-resolved fluoroimmunoassay to assay the rabies virus glycoprotein: application for estimation of human rabies vaccine potency. *Scientific Reports*, **2017**, 7, 7288	4.9	10

49	Dual-Labeled Time-Resolved Immunofluorometric Assay for the Simultaneous Quantitative Detection of Hepatitis B Virus Antigens in Human Serum. *Journal of Fluorescence*, **2017**, 27, 309-316	2.4	4
48	Rapid quantitation of human epididymis protein 4 in human serum by amplified luminescent proximity homogeneous immunoassay (AlphaLISA). *Journal of Immunological Methods*, **2016**, 437, 64-9	2.5	22
47	Quantum Dot-Based Luminescent Oxygen Channeling Assay for Potential Application in Homogeneous Bioassays. *Journal of Fluorescence*, **2016**, 26, 317-22	2.4	5
46	Extracellular translationally controlled tumor protein promotes colorectal cancer invasion and metastasis through Cdc42/JNK/ MMP9 signaling. *Oncotarget*, **2016**, 7, 50057-50073	3.3	38
45	A Simple, Rapid, and Highly Sensitive Electrochemical DNA Sensor for the Detection of β and βThalassemia in China. *Journal of Clinical Laboratory Analysis*, **2016**, 30, 719-26	3	6
44	WAP four-disulfide core domain protein 2 gene(WFDC2) is a target of estrogen in ovarian cancer cells. *Journal of Ovarian Research*, **2016**, 9, 10	5.5	7
43	A Fluorescence Immunochromatographic Assay Using Europium (III) Chelate Microparticles for Rapid, Quantitative and Sensitive Detection of Creatine Kinase MB. *Journal of Fluorescence*, **2016**, 26, 987-96	2.4	18
42	Dual-labeled time-resolved immunofluorometric assay for the determination of IgM antibodies to rubella virus and cytomegalovirus in human serum. *Clinical Biochemistry*, **2015**, 48, 603-8	3.5	8
41	A magnetic nanoparticle-based time-resolved fluoroimmunoassay for determination of the cytokeratin 19 fragment in human serum. *Journal of Fluorescence*, **2015**, 25, 361-7	2.4	4
40	Rapid and sensitive lateral flow immunoassay method for determining alpha fetoprotein in serum using europium (III) chelate microparticles-based lateral flow test strips. *Analytica Chimica Acta*, **2015**, 891, 277-83	6.6	27
39	Development of a time-resolved fluorescence immunoassay for herpes simplex virus type 1 and type 2 IgG antibodies. *Luminescence*, **2015**, 30, 649-54	2.5	5
38	Development of a time-resolved fluorescence immunoassay for Epstein-Barr virus nuclear antigen 1-immunoglobulin A in human serum. *Journal of Medical Virology*, **2015**, 87, 1940-5	19.7	4
37	Development of a time-resolved fluoroimmunoassay for Epstein-Barr virus viral capsid antigen IgA antibody in human serum. *Journal of Virological Methods*, **2015**, 222, 16-21	2.6	7
36	Development of a time-resolved fluorescence immunoassay for Epstein-Barr virus Zta IgA antibodies in human serum. *Viral Immunology*, **2015**, 28, 179-83	1.7	1
35	Establishment of Magnetic Microparticles-Assisted Time-Resolved Fluoroimmunoassay for Determinating Biomarker Models in Human Serum. *PLoS ONE*, **2015**, 10, e0130481	3.7	4
34	A rapid and sensitive method based on magnetic beads for the detection of hepatitis B virus surface antigen in human serum. *Luminescence*, **2014**, 29, 591-7	2.5	9
33	Development of an improved time-resolved fluoroimmunoassay for simultaneous quantification of C-peptide and insulin in human serum. *Clinical Biochemistry*, **2014**, 47, 439-44	3.5	19
32	Simultaneous determination of the cytokeratin 19 fragment and carcinoembryonic antigen in human serum by magnetic nanoparticle-based dual-label time-resolved fluoroimmunoassay. *RSC Advances*, **2014**, 4, 55229-55236	3.7	18

31	A time-resolved fluoroimmunoassay for the quantitation of rabies virus nucleoprotein in the rabies vaccine. *Journal of Virological Methods*, **2014**, 206, 89-94	2.6	14
30	Effect of temperature on the photoproperties of luminescent terbium sensors for homogeneous bioassays. *Luminescence*, **2013**, 28, 156-61	2.5	4
29	Development of a dual-label time-resolved fluoroimmunoassay for the detection of Fetoprotein and hepatitis B virus surface antigen. *Luminescence*, **2013**, 28, 401-6	2.5	21
28	A novel immunoassay for the quantization of CYFRA 21-1 in human serum. *Journal of Clinical Laboratory Analysis*, **2013**, 27, 277-83	3	22
27	Development of an amplified luminescent proximity homogeneous assay for quantitative determination of hepatitis B surface antigen in human serum. *Clinica Chimica Acta*, **2013**, 426, 139-44	6.2	14
26	A novel homogeneous time-resolved fluoroimmunoassay for carcinoembryonic antigen based on water-soluble quantum dots. *Journal of Fluorescence*, **2013**, 23, 649-57	2.4	25
25	Magnetic particle-based time-resolved fluoroimmunoassay for the simultaneous determination of Fetoprotein and the free subunit of human chorionic gonadotropin. *Analyst, The*, **2013**, 138, 3697-704	5	22
24	A one-step RT-PCR array for detection and differentiation of zoonotic influenza viruses H5N1, H9N2, and H1N1. *Journal of Clinical Laboratory Analysis*, **2013**, 27, 450-60	3	5
23	AlphaLISA for the determination of median levels of the free subunit of human chorionic gonadotropin in the serum of pregnant women. *Journal of Immunoassay and Immunochemistry*, **2013**, 34, 134-48	1.8	9
22	Development of an immunomagnetic bead-based time-resolved fluorescence immunoassay for rapid determination of levels of carcinoembryonic antigen in human serum. *Analytica Chimica Acta*, **2012**, 734, 93-8	6.6	67
21	Quantum-dot-based homogeneous time-resolved fluoroimmunoassay of alpha-fetoprotein. *Analytica Chimica Acta*, **2012**, 741, 100-5	6.6	54
20	A new technology for revealing the flow profile in integrated lab-on-a-chip. *Medical Physics*, **2012**, 39, 5060-4	4.4	2
19	A monoclonal antibody against a potential cancer biomarker, human ubiquitin-conjugating enzyme E2. *Hybridoma*, **2012**, 31, 196-202		4
18	Labelled antibody-based one-step time-resolved fluoroimmunoassay for measurement of free thyroxine in serum. *Annals of Clinical Biochemistry*, **2011**, 48, 550-7	2.2	4
17	Targeting procalcitonin with novel murine monoclonal antibodies. *Hybridoma*, **2010**, 29, 189-94		4
16	The study of physics and thermal characteristics for in-hospital neutron irradiator (IHNI). *Applied Radiation and Isotopes*, **2009**, 67, S234-7	1.7	21
15	Study on molecular interactions between proteins on live cell membranes using quantum dot-based fluorescence resonance energy transfer. *Analytical and Bioanalytical Chemistry*, **2008**, 391, 2819-24	4.4	21
14	Optimization of the methods for introduction of amine groups onto the silica nanoparticle surface. *Journal of Biomedical Materials Research - Part A*, **2007**, 80, 752-7	5.4	20

13	Bioconjugate recognition molecules to quantum dots as tumor probes. *Journal of Biomedical Materials Research - Part A*, **2007**, 83, 1209-1216	5.4	21
12	Fluorescence resonance energy transfer between FITC and water-soluble CdSe/ZnS quantum dots. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 302, 168-173	5.1	13
11	Multi-color encoding of polystyrene microbeads with CdSe/ZnS quantum dots and its application in immunoassay. *Journal of Colloid and Interface Science*, **2007**, 316, 622-7	9.3	33
10	A feasible and quantitative encoding method for microbeads with multicolor quantum dots. *Journal of Fluorescence*, **2007**, 17, 133-8	2.4	16
9	Characterization of the coupling of quantum dots and immunoglobulin antibodies. *Analytical and Bioanalytical Chemistry*, **2006**, 386, 1665-71	4.4	42
8	Quantum dot optical encoded polystyrene beads for DNA detection. *Journal of Biomedical Optics*, **2006**, 11, 054025	3.5	14
7	Quantitative doping of commercial polystyrene microbeads with quantum dots **2006**, 6026, 385		
6	Preparation of silica encapsulated quantum dot encoded beads for multiplex assay and its properties. *Analytical Biochemistry*, **2006**, 351, 193-200	3.1	53
5	Temperature-dependent photoluminescence of water-soluble quantum dots for a bioprobe. *Analytica Chimica Acta*, **2006**, 559, 120-123	6.6	80
4	A flow cytometric assay technology based on quantum dots-encoded beads. *Analytica Chimica Acta*, **2006**, 580, 18-23	6.6	35
3	Continuous wave-based multiphoton excitation fluorescence for capillary electrophoresis. *Journal of Chromatography A*, **2006**, 1109, 160-6	4.5	21
2	The application of quantum dots as fluorescent label to glycoarray. *Analytical Biochemistry*, **2005**, 340, 52-6	3.1	12
1	The fluorescence bioassay platforms on quantum dots nanoparticles. *Journal of Fluorescence*, **2005**, 15, 729-33	2.4	37