

Tian-Cai Liu

List of Publications by Year in descending order

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85
papers

1,766
citations

257101

24
h-index

329751

37
g-index

92
all docs

92
docs citations

92
times ranked

2131
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.3	85
2	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.	2.2	85
3	Temperature-dependent photoluminescence of water-soluble quantum dots for a bioprobe. <i>Analytica Chimica Acta</i> , 2006, 559, 120-123.	2.6	84
4	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, 93-98.	2.6	73
5	Quantum-dot-based homogeneous time-resolved fluoroimmunoassay of alpha-fetoprotein. <i>Analytica Chimica Acta</i> , 2012, 741, 100-105.	2.6	60
6	Development and Delivery Systems of mRNA Vaccines. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 718753.	2.0	60
7	Preparation of silica encapsulated quantum dot encoded beads for multiplex assay and its properties. <i>Analytical Biochemistry</i> , 2006, 351, 193-200.	1.1	59
8	Characterization of the coupling of quantum dots and immunoglobulin antibodies. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 1665-1671.	1.9	52
9	Extracellular translationally controlled tumor protein promotes colorectal cancer invasion and metastasis through Cdc42/JNK/ MMP9 signaling. <i>Oncotarget</i> , 2016, 7, 50057-50073.	0.8	45
10	The Fluorescence Bioassay Platforms on Quantum Dots Nanoparticles. <i>Journal of Fluorescence</i> , 2005, 15, 729-733.	1.3	41
11	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, 277-283.	2.6	37
12	A flow cytometric assay technology based on quantum dots-encoded beads. <i>Analytica Chimica Acta</i> , 2006, 580, 18-23.	2.6	35
13	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, 622-627.	5.0	35
14	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.	1.6	34
15	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.	1.1	33
16	Semiconductor quantum dots in tumor research. <i>Journal of Luminescence</i> , 2019, 209, 61-68.	1.5	33
17	The study of physics and thermal characteristics for in-hospital neutron irradiator (IHNI). <i>Applied Radiation and Isotopes</i> , 2009, 67, S234-S237.	0.7	30
18	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, Volume 13, 5395-5404.	3.3	29

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19	A Novel Homogeneous Time-Resolved Fluoroimmunoassay for Carcinoembryonic Antigen Based on Water-Soluble Quantum Dots. <i>Journal of Fluorescence</i> , 2013, 23, 649-657.	1.3	28
20	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, 987-996.	1.3	27
21	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, 64-69.	0.6	26
22	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.	1.6	26
23	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.	1.1	26
24	Ultrasensitive Sensor Using Quantum Dots-Doped Polystyrene Nanospheres for Clinical Diagnostics of Low-Volume Serum Samples. <i>Analytical Chemistry</i> , 2019, 91, 5777-5785.	3.2	26
25	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, 2819-2824.	1.9	25
26	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.	4.6	25
27	Magnetic particle-based time-resolved fluoroimmunoassay for the simultaneous determination of β -fetoprotein and the free β -subunit of human chorionic gonadotropin. <i>Analyst</i> , 2013, 138, 3697.	1.7	24
28	Continuous wave-based multiphoton excitation fluorescence for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2006, 1109, 160-166.	1.8	23
29	Optimization of the methods for introduction of amine groups onto the silica nanoparticle surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 752-757.	2.1	23
30	Bioconjugate recognition molecules to quantum dots as tumor probes. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 1209-1216.	2.1	23
31	A Novel Immunoassay for the Quantization of CYFRA 21-1 in Human Serum. <i>Journal of Clinical Laboratory Analysis</i> , 2013, 27, 277-283.	0.9	23
32	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, 139-144.	0.5	23
33	Integrating of lipophilic platinum(IV) prodrug into liposomes for cancer therapy on patient-derived xenograft model. <i>Chinese Chemical Letters</i> , 2022, 33, 1875-1879.	4.8	23
34	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, 401-406.	1.5	22
35	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.	0.5	22
36	Development of an improved time-resolved fluoroimmunoassay for simultaneous quantification of C-peptide and insulin in human serum. <i>Clinical Biochemistry</i> , 2014, 47, 439-444.	0.8	21

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37	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.	1.7	20
38	WFDC2 contributes to epithelial-mesenchymal transition (EMT) by activating AKT signaling pathway and regulating MMP-2 expression. <i>Cancer Management and Research</i> , 2019, Volume 11, 2415-2424.	0.9	20
39	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.	2.6	19
40	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.	4.0	19
41	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.	1.0	18
42	Quantum dot optical encoded polystyrene beads for DNA detection. <i>Journal of Biomedical Optics</i> , 2006, 11, 054025.	1.4	16
43	A Feasible and Quantitative Encoding Method for Microbeads with Multicolor Quantum Dots. <i>Journal of Fluorescence</i> , 2007, 17, 133-138.	1.3	16
44	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.	1.6	16
45	Tspan5 promotes epithelial-mesenchymal transition and tumour metastasis of hepatocellular carcinoma by activating Notch signalling. <i>Molecular Oncology</i> , 2021, 15, 3184-3202.	2.1	16
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.	2.3	15
47	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.	0.5	15
48	Development of a novel chemiluminescence immunoassay for the detection of procalcitonin. <i>Journal of Immunological Methods</i> , 2020, 484-485, 112829.	0.6	13
49	Plasma-Derived Extracellular Vesicles Circular RNAs Serve as Biomarkers for Breast Cancer Diagnosis. <i>Frontiers in Oncology</i> , 2021, 11, 752651.	1.3	13
50	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, 134-148.	0.5	12
51	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, 591-597.	1.5	9
52	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.	1.3	9
53	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.	1.3	9
54	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.	0.6	9

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55	RBPTD: a database of cancer-related RNA-binding proteins in humans. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	1.4	9
56	Dual-labeled time-resolved immunofluorometric assay for the determination of IgM antibodies to rubella virus and cytomegalovirus in human serum. Clinical Biochemistry, 2015, 48, 603-608.	0.8	8
57	A transformable gold nanocluster aggregate-based synergistic strategy for potentiated radiation/gene cancer therapy. Journal of Materials Chemistry B, 2021, 9, 2314-2322.	2.9	8
58	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.	1.0	7
59	Rapid Monitoring of Vancomycin Concentration in Serum Using Europium (III) Chelate Nanoparticle-Based Lateral Flow Immunoassay. Frontiers in Chemistry, 2021, 9, 763686.	1.8	7
60	Effect of temperature on the photoproperties of luminescent terbium sensors for homogeneous bioassays. Luminescence, 2013, 28, 156-161.	1.5	6
61	Development of a time-resolved fluorescence immunoassay for herpes simplex virus type 1 and type 2 IgG antibodies. Luminescence, 2015, 30, 649-654.	1.5	6
62	A Simple, Rapid, and Highly Sensitive Electrochemical DNA Sensor for the Detection of β - and δ -thalassemia in China. Journal of Clinical Laboratory Analysis, 2016, 30, 719-726.	0.9	6
63	Quantum Dot-Based Luminescent Oxygen Channeling Assay for Potential Application in Homogeneous Bioassays. Journal of Fluorescence, 2016, 26, 317-322.	1.3	6
64	Establishment of Magnetic Microparticles-Assisted Time-Resolved Fluoroimmunoassay for Determining Biomarker Models in Human Serum. PLoS ONE, 2015, 10, e0130481.	1.1	6
65	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, 1218, 339998.	2.6	6
66	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, 450-460.	0.9	5
67	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, 1940-1945.	2.5	5
68	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.	1.6	5
69	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.	1.3	5
70	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.	1.2	5
71	Targeting Procalcitonin with Novel Murine Monoclonal Antibodies. Hybridoma, 2010, 29, 189-194.	0.5	4
72	Labelled antibody-based one-step time-resolved fluoroimmunoassay for measurement of free thyroxine in serum. Annals of Clinical Biochemistry, 2011, 48, 550-557.	0.8	4

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73	A Monoclonal Antibody Against a Potential Cancer Biomarker, Human Ubiquitin-Conjugating Enzyme E2. <i>Hybridoma</i> , 2012, 31, 196-202.	0.5	4
74	A Magnetic Nanoparticle-Based Time-Resolved Fluoroimmunoassay for Determination of the Cytokeratin 19 Fragment in Human Serum. <i>Journal of Fluorescence</i> , 2015, 25, 361-367.	1.3	4
75	Identification of Key Biomarkers and Immune Infiltration in Liver Tissue after Bariatric Surgery. <i>Disease Markers</i> , 2022, 2022, 1-17.	0.6	4
76	A new technology for revealing the flow profile in integrated lab-on-a-chip. <i>Medical Physics</i> , 2012, 39, 5060-5064.	1.6	2
77	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.	1.7	2
78	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.	1.7	2
79	CRISPR-Cas13a-based diagnostic method for <i>Chlamydia trachomatis</i> from nongonococcal urethritis. <i>Bioanalysis</i> , 2021, 13, 901-912.	0.6	2
80	A chemiluminescence immunoassay for precise automatic quality control of glycoprotein in human rabies vaccine. <i>Vaccine</i> , 2021, 39, 7470-7470.	1.7	2
81	PreS2-21-Guided siRNA Nanoparticles Target to Inhibit Hepatitis B Virus Infection and Replication. <i>Frontiers in Immunology</i> , 2022, 13, 856463.	2.2	2
82	Synthesis and properties of quantum dots optical probes for bio-imaging. , 2006, , .		1
83	Development of a Time-Resolved Fluorescence Immunoassay for Epstein-Barr Virus Zta IgA Antibodies in Human Serum. <i>Viral Immunology</i> , 2015, 28, 179-183.	0.6	1
84	A homogeneous immunoassay for detection of the interaction between two tumor biomarkers of IGF1R ² and SOCS1. <i>Biotechnology and Applied Biochemistry</i> , 2020, 68, 769-775.	1.4	1
85	Quantitative doping of commercial polystyrene microbeads with quantum dots. , 2006, 6026, 385.		0