

Jicun Ren

List of Publications by Year in descending order

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94
papers

2,940
citations

185998

28
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182168

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docs citations

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times ranked

4189
citing authors

#	ARTICLE	IF	CITATIONS
1	Colloidal Stability of Gold Nanoparticles Modified with Thiol Compounds: Bioconjugation and Application in Cancer Cell Imaging. <i>Langmuir</i> , 2012, 28, 4464-4471.	1.6	257
2	Nonbleaching Fluorescence of Gold Nanoparticles and Its Applications in Cancer Cell Imaging. <i>Analytical Chemistry</i> , 2008, 80, 5951-5957.	3.2	225
3	A Resonance Energy Transfer between Chemiluminescent Donors and Luminescent Quantum-Dots as Acceptors (CRET). <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5140-5143.	7.2	224
4	Facile One-Pot Synthesis of Luminescent, Water-Soluble, and Biocompatible Glutathione-Coated CdTe Nanocrystals. <i>Small</i> , 2006, 2, 747-751.	5.2	204
5	Nanomaterial-based chemiluminescence resonance energy transfer: A strategy to develop new analytical methods. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 40, 77-89.	5.8	93
6	Catalysis-Driven Self-Assembly of Janus Plasmonic Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 515-518.	7.2	93
7	Multiamino-functionalized carbon nanotubes and their applications in loading quantum dots and magnetic nanoparticles. <i>Journal of Materials Chemistry</i> , 2006, 16, 1852.	6.7	75
8	Characterization of quantum dot bioconjugates by capillary electrophoresis with laser-induced fluorescent detection. <i>Journal of Chromatography A</i> , 2006, 1113, 251-254.	1.8	72
9	Chemiluminescence detection for capillary electrophoresis and microchip capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 2006, 25, 155-166.	5.8	70
10	Single Nonblinking CdTe Quantum Dots Synthesized in Aqueous Thiopropionic Acid. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7588-7591.	7.2	61
11	Fluorescence enhancement of cysteine-rich protein-templated gold nanoclusters using silver(I) ions and its sensing application for mercury(II). <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 342-350.	4.0	61
12	A sensitive and rapid immunoassay for quantification of CA125 in human sera by capillary electrophoresis with enhanced chemiluminescence detection. <i>Electrophoresis</i> , 2005, 26, 2402-2408.	1.3	57
13	Sensitive and Universal Indirect Chemiluminescence Detection for Capillary Electrophoresis of Cations Using Cobalt(II) as a Probe Ion. <i>Analytical Chemistry</i> , 2001, 73, 2663-2668.	3.2	56
14	Single-Molecule Technology for Rapid Detection of DNA Hybridization Based on Resonance Light Scattering of Gold Nanoparticles. <i>ChemBioChem</i> , 2007, 8, 1126-1129.	1.3	55
15	Sizes of water-soluble luminescent quantum dots measured by fluorescence correlation spectroscopy. <i>Analytica Chimica Acta</i> , 2005, 546, 46-51.	2.6	53
16	Non-blinking (Zn)CuInS/ZnS Quantum Dots Prepared by In Situ Interfacial Alloying Approach. <i>Scientific Reports</i> , 2015, 5, 15227.	1.6	52
17	Ultraviolet sealing and poly(dimethylacrylamide) modification for poly(dimethylsiloxane)/glass microchips. <i>Electrophoresis</i> , 2004, 25, 914-921.	1.3	51
18	Tempo-Spatially Resolved Scattering Correlation Spectroscopy under Dark-Field Illumination and Its Application to Investigate Dynamic Behaviors of Gold Nanoparticles in Live Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 2775-2785.	6.6	47

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19	On-line chemiluminescence detection for isoelectric focusing of heme proteins on microchips. <i>Electrophoresis</i> , 2005, 26, 3595-3601.	1.3	46
20	Aqueous synthesis of CdTe/CdS/ZnS quantum dots and their optical and chemical properties. <i>Luminescence</i> , 2011, 26, 439-448.	1.5	41
21	Catalytic Chemiluminescence Polymer Dots for Ultrasensitive In Vivo Imaging of Intrinsic Reactive Oxygen Species in Mice. <i>Analytical Chemistry</i> , 2018, 90, 6929-6935.	3.2	41
22	Sensitive Single Particle Method for Characterizing Rapid Rotational and Translational Diffusion and Aspect Ratio of Anisotropic Nanoparticles and Its Application in Immunoassays. <i>Analytical Chemistry</i> , 2013, 85, 9433-9438.	3.2	40
23	Blinking Behavior of CdSe/CdS Quantum Dots Controlled by Alkylthiols as Surface Trap Modifiers. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24592-24600.	1.5	39
24	Coupling Fluorescence Correlation Spectroscopy with Microchip Electrophoresis to Determine the Effective Surface Charge of Water-Soluble Quantum Dots. <i>Small</i> , 2006, 2, 534-538.	5.2	36
25	Single particle technique for one-step homogeneous detection of cancer marker using gold nanoparticle probes. <i>Analyst, The</i> , 2011, 136, 4247.	1.7	36
26	Gas-liquid phase synthesis of highly luminescent InP/ZnS core/shell quantum dots using zinc phosphide as a new phosphorus source. <i>Journal of Materials Chemistry</i> , 2012, 22, 1794-1799.	6.7	34
27	A novel evanescent wave scattering imaging method for single gold particle tracking in solution and on cell membrane. <i>Talanta</i> , 2008, 77, 166-171.	2.9	32
28	Fluorescence and Scattering Light Cross Correlation Spectroscopy and Its Applications in Homogeneous Immunoassay. <i>Analytical Chemistry</i> , 2017, 89, 5230-5237.	3.2	31
29	Uracil in Human DNA from Subjects with Normal and Impaired Folate Status As Determined by High-Performance Liquid Chromatography-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 295-299.	3.2	27
30	Coupling chemiluminescence with capillary electrophoresis to analyze single human red blood cells. <i>Analytica Chimica Acta</i> , 2007, 583, 217-222.	2.6	27
31	Recent advances in chemiluminescence detection coupled with capillary electrophoresis and microchip capillary electrophoresis. <i>Electrophoresis</i> , 2016, 37, 2-18.	1.3	27
32	Studies on bioconjugation of quantum dots using capillary electrophoresis and fluorescence correlation spectroscopy. <i>Electrophoresis</i> , 2012, 33, 1987-1995.	1.3	26
33	Tuning Blinking Behavior of Highly Luminescent Cesium Lead Halide Nanocrystals through Varying Halide Composition. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13314-13323.	1.5	25
34	Experimental Studies on Blinking Behavior of Single InP/ZnS Quantum Dots: Effects of Synthetic Conditions and UV Irradiation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3944-3950.	1.5	23
35	Catalysis-Driven Self-Thermophoresis of Janus Plasmonic Nanomotors. <i>Angewandte Chemie</i> , 2017, 129, 530-533.	1.6	23
36	Measurements for molar extinction coefficients of aqueous quantum dots. <i>Analyst, The</i> , 2010, 135, 1395.	1.7	22

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37	Fluorescence correlation spectroscopy of gold nanoparticles, and its application to an aptamer-based homogeneous thrombin assay. <i>Mikrochimica Acta</i> , 2014, 181, 723-730.	2.5	21
38	Quantitative Determination of Telomerase Activity by Combining Fluorescence Correlation Spectroscopy with Telomerase Repeat Amplification Protocol. <i>Analytical Chemistry</i> , 2018, 90, 1006-1013.	3.2	21
39	A sensitive, universal and homogeneous method for determination of biomarkers in biofluids by resonance light scattering correlation spectroscopy (RLSCS). <i>Talanta</i> , 2013, 116, 501-507.	2.9	20
40	In Situ Monitoring of p53 Protein and MDM2 Protein Interaction in Single Living Cells Using Single-Molecule Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 2018, 90, 6144-6151.	3.2	20
41	Simple and Sensitive Method for Determination of Protein Kinase Activity Based on Surface Charge Change of Peptide-Modified Gold Nanoparticles As Substrates. <i>Analytical Chemistry</i> , 2018, 90, 3871-3877.	3.2	19
42	Highly Sensitive Method for Assay of Drug-Induced Apoptosis Using Fluorescence Correlation Spectroscopy. <i>Analytical Chemistry</i> , 2012, 84, 7350-7358.	3.2	18
43	Sandwich immunoassay for alpha-fetoprotein in human sera using gold nanoparticle and magnetic bead labels along with resonance Rayleigh scattering readout. <i>Mikrochimica Acta</i> , 2013, 180, 635-642.	2.5	18
44	In Situ Study of the Drug-Target Protein Interaction in Single Living Cells by Combining Fluorescence Correlation Spectroscopy with Affinity Probes. <i>Analytical Chemistry</i> , 2020, 92, 7020-7027.	3.2	16
45	Controllable Blinking-Nonblinking Behavior of Aqueous CdTeS Alloyed Quantum Dots. <i>Chemistry - A European Journal</i> , 2014, 20, 1940-1946.	1.7	15
46	An aptamer-based single particle method for sensitive detection of thrombin using fluorescent quantum dots as labeling probes. <i>Talanta</i> , 2015, 144, 13-19.	2.9	15
47	Sensitive and homogenous immunoassay of fumonisin in foods using single molecule fluorescence correlation spectroscopy. <i>Analytical Methods</i> , 2016, 8, 1333-1338.	1.3	15
48	Assay of Single-Cell Apoptosis by Ensemble and Single-Molecule Fluorescence Methods: Annexin-V/Polyethylene Glycol-Functionalized Quantum Dots as Probes. <i>Langmuir</i> , 2018, 34, 10040-10047.	1.6	15
49	Spatially Resolved Scattering Correlation Spectroscopy Using a Total Internal Reflection Configuration. <i>Analytical Chemistry</i> , 2012, 84, 3561-3567.	3.2	14
50	Size Distribution of Nanoparticles in Solution Characterized by Combining Resonance Light Scattering Correlation Spectroscopy with the Maximum Entropy Method. <i>Analytical Chemistry</i> , 2017, 89, 12609-12616.	3.2	14
51	Determination of Caspase-3 Activity and Its Inhibition Constant by Combination of Fluorescence Correlation Spectroscopy with a Microwell Chip. <i>Analytical Chemistry</i> , 2017, 89, 9788-9796.	3.2	14
52	Polystyrene-Hemin Dots for Chemiluminescence Imaging. <i>ACS Applied Nano Materials</i> , 2019, 2, 3761-3768.	2.4	14
53	Multicolor Chemiluminescent Resonance Energy-Transfer System for <i>In Vivo</i> High-Contrast and Targeted Imaging. <i>Analytical Chemistry</i> , 2021, 93, 3042-3051.	3.2	14
54	Homogeneous immunoassay for the cancer marker alpha-fetoprotein using single wavelength excitation fluorescence cross-correlation spectroscopy and CdSe/ZnS quantum dots and fluorescent dyes as labels. <i>Mikrochimica Acta</i> , 2016, 183, 749-755.	2.5	13

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55	A single particle method for direct determination of molar concentrations of gold nanoparticles, and its application to the determination of the activity of caspase 3 and drug-induced cell apoptosis. <i>Mikrochimica Acta</i> , 2016, 183, 2457-2465.	2.5	13
56	Suppressed blinking behavior of CdSe/CdS QDs by polymer coating. <i>Nanoscale</i> , 2016, 8, 5006-5014.	2.8	13
57	Singlet Oxygen Generation in Ferriporphyrin-Polymer Dots Catalyzed Chemiluminescence System for Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 5020-5029.	2.3	13
58	Quantum dots trigger hot-start effects for pfu-based polymerase chain reaction. <i>Journal of Experimental Nanoscience</i> , 2014, 9, 1051-1063.	1.3	12
59	Synthesis, characterization, and drug release behavior of amphiphilic quaternary ammonium chitosan derivatives. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	12
60	A sensitive and microscale method for drug screening combining affinity probes and single molecule fluorescence correlation spectroscopy. <i>Analyst</i> , The, 2015, 140, 1207-1214.	1.7	12
61	In Situ Study of Interactions between Endogenous c-myc mRNA with CRDBP in a Single Living Cell by Combining Fluorescence Cross-Correlation Spectroscopy with Molecular Beacons. <i>Analytical Chemistry</i> , 2020, 92, 2988-2996.	3.2	12
62	Homogeneous immunoassays by using photon burst counting technique of single gold nanoparticles. <i>Talanta</i> , 2015, 132, 698-704.	2.9	11
63	Characterization of solution-phase DNA hybridization by fluorescence correlation spectroscopy: Rapid genotyping of C677T from methylenetetrahydrofolate reductase gene. <i>Talanta</i> , 2007, 71, 1192-1197.	2.9	10
64	Size exclusion chromatography as a universal method for the purification of quantum dots bioconjugates. <i>Electrophoresis</i> , 2013, 34, 1764-1771.	1.3	10
65	Fluctuation correlation spectroscopy and its applications in homogeneous analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4523-4540.	1.9	10
66	Capillary Electrophoresis of Polyamines with Universal Indirect Chemiluminescence Detection, Using Cobalt (II) as a Probe Ion. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2003, 26, 355-367.	0.5	9
67	Assessing the Blinking State of Fluorescent Quantum Dots in Free Solution by Combining Fluorescence Correlation Spectroscopy with Ensemble Spectroscopic Methods. <i>Langmuir</i> , 2014, 30, 12969-12976.	1.6	9
68	Optical Trapping Effect and Its Calibration Method in Resonance Light Scattering Correlation Spectroscopy of Gold Nanoparticles in Solution. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14495-14501.	1.5	8
69	A study of the dynamics of PTEN proteins in living cells using <i>in vivo</i> fluorescence correlation spectroscopy. <i>Methods and Applications in Fluorescence</i> , 2017, 5, 024008.	1.1	7
70	In Situ Assay of Proteins Incorporated with Unnatural Amino Acids in Single Living Cells by Differenced Resonance Light Scattering Correlation Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 9329-9336.	3.2	7
71	Brightness Analysis per Moving Particle: <i>In Situ</i> Analysis of Alkaline Phosphatase in Living Cells. <i>Analytical Chemistry</i> , 2022, 94, 5181-5189.	3.2	7
72	A sensitive assay of mercury using fluorescence correlation spectroscopy of gold nanoparticles. <i>Luminescence</i> , 2015, 30, 605-610.	1.5	6

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73	Analyses of p73 Protein Oligomerization and p73â€“MDM2 Interaction in Single Living Cells Using In Situ Single Molecule Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 886-894.	3.2	5
74	Simultaneously monitoring endogenous MAPK members in single living cells by multi-channel fluorescence correlation spectroscopy. <i>Analyst, The</i> , 2021, 146, 2581-2590.	1.7	5
75	Synthesis, characterization, and drug delivery property of 2-N-carboxymethyl-6-O-diethylaminoethyl-chitosan. <i>E-Polymers</i> , 2013, 13, .	1.3	4
76	Strategies to reduce detection volume of fluorescence correlation spectroscopy (FCS) to realize physiological concentration measurements. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 89, 181-189.	5.8	4
77	A study of the diffusion dynamics and concentration distribution of gold nanospheres (GNSs) without fluorescent labeling inside live cells using fluorescence single particle spectroscopy. <i>Nanoscale</i> , 2018, 10, 5309-5317.	2.8	4
78	<i>In situ</i> study of RSK2 kinase activity in a single living cell by combining single molecule spectroscopy with activity-based probes. <i>Analyst, The</i> , 2019, 144, 3756-3764.	1.7	4
79	Selective analysis of newly synthesized proteins by combining fluorescence correlation spectroscopy with bioorthogonal non-canonical amino acid tagging. <i>Analyst, The</i> , 2021, 146, 478-486.	1.7	4
80	Highly sensitive detection of DNA methyltransferase activity and its inhibitor screening by coupling fluorescence correlation spectroscopy with polystyrene polymer dots. <i>Analyst, The</i> , 2021, 146, 3623-3632.	1.7	4
81	Chiral ligandâ€“induced photoluminescence intermittence difference of CdTe quantum dots. <i>Luminescence</i> , 2018, 33, 1150-1156.	1.5	3
82	Analysis of protein phosphorylation in solution and in cells by using an ATP analogue in combination with fluorescence techniques. <i>Analyst, The</i> , 2021, 146, 4506-4514.	1.7	3
83	Studying Homo-oligomerization and Hetero-oligomerization of MDMX and MDM2 Proteins in Single Living Cells by Using In Situ Fluorescence Correlation Spectroscopy. <i>Biochemistry</i> , 2021, 60, 1498-1505.	1.2	3
84	Single-Particle Catalytic Analysis by a Photon Burst Counting Technique Combined with a Microfluidic Chip. <i>Analytical Chemistry</i> , 2021, 93, 9752-9759.	3.2	3
85	The Theoretical Model, Method, and Applications of Scattering Photon Burst Counting Based on an Objective Scanning Technique. <i>Analytical Chemistry</i> , 2021, 93, 12556-12564.	3.2	3
86	Study of the efficiency of chemiluminescence resonance energy transfer system based on hemin/G-quadruplex DNAzyme catalysis by chemiluminescence imaging. <i>Talanta</i> , 2022, 245, 123447.	2.9	3
87	Effects of Polyols, pH and Electrolyte Concentrations in TBE Buffer on Separation of Double Strand DNA Fragments by Capillary Electrophoresis.. <i>Analytical Sciences</i> , 2002, 18, 469-471.	0.8	2
88	Studies on the formation and stability of triplex DNA using fluorescence correlation spectroscopy. <i>Luminescence</i> , 2016, 31, 830-836.	1.5	2
89	Controllable â€œClicked-to-Assembledâ€“Plasmonic Coreâ€“Satellite Nanostructures and Its Surface-Enhanced Fluorescence in Living Cells. <i>ACS Omega</i> , 2019, 4, 21161-21168.	1.6	2
90	A study of proteinâ€“drug interaction based on solvent-induced protein aggregation by fluorescence correlation spectroscopy. <i>Analyst, The</i> , 2022, 147, 1357-1366.	1.7	2

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91	Analysis of protein phosphorylation combining capillary electrophoresis with ATP analog labeling technique. <i>Electrophoresis</i> , 2021, , .	1.3	1
92	Fluorescence cross-correlation spectroscopy using single wavelength laser. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2009, 4, 191-195.	0.4	0
93	Editorial: Introduction about fluorescence in China. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 010201.	1.1	0
94	In situ determination of secretory kinase Fam20C from living cells using fluorescence correlation spectroscopy. <i>Talanta</i> , 2021, 232, 122473.	2.9	0