Xiaohong Nancy Xu

List of Publications by Year
in descending order

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51 papers	2,951 citations	218381 26 h-index	315357 38 g-index
54 all docs	54 docs citations	54 times ranked	3865 citing authors

#	Article	IF	Citations
1	Size-dependent inhibitory effects of antibiotic nanocarriers on filamentation ofE. coli. Nanoscale Advances, 2020, 2, 2135-2145.	2.2	3
2	Antibiotic Drug Nanocarriers for Probing of Multidrug ABC Membrane Transporter of Bacillus subtilis. ACS Omega, 2020, 5, 1625-1633.	1.6	12
3	Functionality of membrane proteins overexpressed and purified from E. coli is highly dependent upon the strain. Scientific Reports, 2019, 9, 2654.	1.6	36
4	Single gold nanoparticle plasmonic spectroscopy for study of chemical-dependent efflux function of single ABC transporters of single live Bacillus subtilis cells. Analyst, The, 2018, 143, 1599-1608.	1.7	15
5	Size-Dependent Inhibitory Effects of Antibiotic Drug Nanocarriers against Pseudomonas aeruginosa. ACS Omega, 2018, 3, 1231-1243.	1.6	21
6	Single nanoparticle plasmonic spectroscopy for study of the efflux function of multidrug ABC membrane transporters of single live cells. RSC Advances, 2016, 6, 36794-36802.	1.7	10
7	Single Nanoparticle Plasmonic Spectroscopy for Study of Charge-Dependent Efflux Function of Multidrug ABC Transporters of Single Live Bacillus subtilis Cells. Journal of Physical Chemistry C, 2016, 120, 21007-21016.	1.5	10
8	Wavelength dependent specific plasmon resonance coupling of single silver nanoparticles with EGFP. Nanoscale, 2015, 7, 17623-17630.	2.8	4
9	Design and study of the efflux function of the EGFP fused MexAB-OprM membrane transporter in Pseudomonas aeruginosa using fluorescence spectroscopy. Analyst, The, 2014, 139, 3088-3096.	1.7	9
10	Silver nanoparticles induce developmental stage-specific embryonic phenotypes in zebrafish. Nanoscale, 2013, 5, 11625.	2.8	50
11	Silver Nanoparticles Incite Size- and Dose-Dependent Developmental Phenotypes and Nanotoxicity in Zebrafish Embryos. Chemical Research in Toxicology, 2013, 26, 1503-1513.	1.7	42
12	Ultrasensitive analysis of binding affinity of HIV receptor and neutralizing antibodies using solution-phase electrochemiluminescence assay. Journal of Electroanalytical Chemistry, 2013, 688, 53-60.	1.9	4
13	Study of Charge-Dependent Transport and Toxicity of Peptide-Functionalized Silver Nanoparticles Using Zebrafish Embryos and Single Nanoparticle Plasmonic Spectroscopy. Chemical Research in Toxicology, 2013, 26, 904-917.	1.7	77
14	Real-time in vivo imaging of size-dependent transport and toxicity of gold nanoparticles in zebrafish embryos using single nanoparticle plasmonic spectroscopy. Interface Focus, 2013, 3, 20120098.	1.5	37
15	Far-field photostable optical nanoscopy (PHOTON) for real-time super-resolution single-molecular imaging of signaling pathways of single live cells. Nanoscale, 2012, 4, 2797.	2.8	35
16	In Vivo Quantitative Study of Sized-Dependent Transport and Toxicity of Single Silver Nanoparticles Using Zebrafish Embryos. Chemical Research in Toxicology, 2012, 25, 1029-1046.	1.7	116
17	Single nanoparticle spectroscopy for real-time in vivo quantitative analysis of transport and toxicity of single nanoparticles in single embryos. Analyst, The, 2012, 137, 2973.	1.7	39
18	Design and probing of efflux functions of EGFP fused ABC membrane transporters in live cells using fluorescence spectroscopy. Analytical and Bioanalytical Chemistry, 2011, 400, 223-235.	1.9	10

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19	Synthesis and characterization of tunable rainbow colored colloidal silver nanoparticles using single-nanoparticle plasmonic microscopy and spectroscopy. Journal of Materials Chemistry, 2010, 20, 9867.	6.7	248
20	Electric pulses to prepare feeder cells for sustaining and culturing of undifferentiated embryonic stem cells. Biotechnology Journal, 2010, 5, 588-595.	1.8	4
21	Probing of multidrug ABC membrane transporters of single living cells using single plasmonic nanoparticle optical probes. Analytical and Bioanalytical Chemistry, 2010, 397, 3317-3328.	1.9	27
22	Study of the Multidrug Membrane Transporter of Single Living Pseudomonas aeruginosa Cells Using Size-Dependent Plasmonic Nanoparticle Optical Probes. Biochemistry, 2010, 49, 5942-5953.	1.2	60
23	Study of cytotoxic and therapeutic effects of stable and purified silver nanoparticles on tumor cells. Nanoscale, 2010, 2, 942.	2.8	71
24	Design and characterization of optical nanorulers of single nanoparticles using optical microscopy and spectroscopy. Nanoscale, 2010, 2, 1715.	2.8	39
25	Random walk of single gold nanoparticles in zebrafish embryos leading to stochastic toxic effects on embryonic developments. Nanoscale, 2009, 1, 138.	2.8	167
26	Design of Stable and Uniform Single Nanoparticle Photonics for In Vivo Dynamics Imaging of Nanoenvironments of Zebrafish Embryonic Fluids. ACS Nano, 2008, 2, 1371-1380.	7.3	99
27	Photostable Single-Molecule Nanoparticle Optical Biosensors for Real-Time Sensing of Single Cytokine Molecules and Their Binding Reactions. Journal of the American Chemical Society, 2008, 130, 17095-17105.	6.6	116
28	Design and Synthesis of Single-Nanoparticle Optical Biosensors for Imaging and Characterization of Single Receptor Molecules on Single Living Cells. Analytical Chemistry, 2007, 79, 7708-7718.	3.2	95
29	In Vivo Imaging of Transport and Biocompatibility of Single Silver Nanoparticles in Early Development of Zebrafish Embryos. ACS Nano, 2007, 1, 133-143.	7.3	721
30	Size and Temperature Dependence of Surface Plasmon Absorption of Gold Nanoparticles Induced by Tris(2,2â€˜-bipyridine)ruthenium(II). Journal of Physical Chemistry B, 2004, 108, 15543-15551.	1.2	77
31	Single Live Cell Imaging of Chromosomes in Chloramphenicol-Induced FilamentousPseudomonas aeruginosaâ€. Biochemistry, 2004, 43, 175-182.	1.2	24
32	Real-Time Probing of Membrane Transport in Living Microbial Cells Using Single Nanoparticle Optics and Living Cell Imagingâ€. Biochemistry, 2004, 43, 10400-10413.	1.2	270
33	Using Nanoparticle Optics Assay for Direct Observation of the Function of Antimicrobial Agents in Single Live Bacterial Cellsâ€. Biochemistry, 2004, 43, 140-147.	1.2	157
34	Single-molecule detection of efflux pump machinery in Pseudomonas aeruginosa. Biochemical and Biophysical Research Communications, 2003, 305, 79-86.	1.0	34
35	Direct observation of substrate induction of resistance mechanism in Pseudomonas aeruginosa using single live cell imaging. Biochemical and Biophysical Research Communications, 2003, 305, 941-949.	1.0	33
36	Single live cell imaging for real-time monitoring of resistance mechanism in Pseudomonas aeruginosa. Journal of Biomedical Optics, 2002, 7, 576.	1.4	28

#	Article	IF	Citations
37	Direct Measurement of Sizes and Dynamics of Single Living Membrane Transporters Using Nanooptics. Nano Letters, 2002, 2, 175-182.	4.5	83
38	Novel solution-phase immunoassays for molecular analysis of tumor markers. Analyst, The, 2001, 126, 1285-1292.	1.7	43
39	Electrochemiluminescence Detection in Bioanalysis. , 0, , 235-267.		5
40	Single-Cell Measurements with Mass Spectrometry. , 0, , 269-293.		6
41	Probing Membrane Transport of Single Live Cells Using Single-Molecule Detection and Single Nanoparticle Assay. , 0, , 41-70.		10
42	Nanoparticle Probes for Ultrasensitive Biological Detection and Imaging. , 0, , 71-89.		3
43	Ultrasensitive Microarray Detection of DNA using Enzymatically Amplified SPR Imaging. , 0, , 169-194.		1
44	Is One Enough?. , 0, , 1-27.		0
45	Electrochemistry Inside and Outside Single Nerve Cells. , 0, , 215-234.		0
46	Outlooks of Ultrasensitive Detection in Bioanalysis. , 0, , 295-299.		0
47	Dissecting Cellular Activity from Single Genes to Single mRNAs. , 0, , 29-39.		0
48	Tailoring Nanoparticles for the Recognition of Biomacromolecule Surfaces. , 0, , 91-117.		0
49	Nanoscale Chemical Analysis of Individual Subcellular Compartments. , 0, , 119-140.		0
50	Ultra Sensitive Time-Resolved Near-IR Fluorescence for Multiplexed Bioanalysis. , 0, , 141-168.		0
51	Ultrasensitive Analysis of Metal Ions and Small Molecules in Living Cells. , 0, , 195-214.		0