Ning Fang

List of Publications by Year
in descending order

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100	3,718	126708	143772
papers	citations	33 h-index	57 g-index

104	104	104	5076
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gold nanoparticles in biological optical imaging. Nano Today, 2019, 24, 120-140.	6.2	259
2	Single Cell Optical Imaging and Spectroscopy. Chemical Reviews, 2013, 113, 2469-2527.	23.0	250
3	Resolving Rotational Motions of Nano-objects in Engineered Environments and Live Cells with Gold Nanorods and Differential Interference Contrast Microscopy. Journal of the American Chemical Society, 2010, 132, 16417-16422.	6.6	156
4	Targeting cancer cell integrins using gold nanorods in photothermal therapy inhibits migration through affecting cytoskeletal proteins. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5655-E5663.	3.3	151
5	Super-Resolution Mapping of Photogenerated Electron and Hole Separation in Single Metalâ€“Semiconductor Nanocatalysts. Journal of the American Chemical Society, 2014, 136, 1398-1408.	6.6	141
6	Optical Super-Resolution Imaging of Surface Reactions. Chemical Reviews, 2017, 117, 7510-7537.	23.0	140
7	Nuclear Membrane-Targeted Gold Nanoparticles Inhibit Cancer Cell Migration and Invasion. ACS Nano, 2017, 11, 3716-3726.	7.3	135
8	Manganese nanoparticle activates mitochondrial dependent apoptotic signaling and autophagy in dopaminergic neuronal cells. Toxicology and Applied Pharmacology, 2011, 256, 227-240.	1.3	121
9	Gold Nanorod Photothermal Therapy Alters Cell Junctions and Actin Network in Inhibiting Cancer Cell Collective Migration. ACS Nano, 2018, 12, 9279-9290.	7.3	105
10	In situ quantitative single-molecule study of dynamic catalytic processes in nanoconfinement. Nature Catalysis, 2018, 1, 135-140.	16.1	99
11	Single Particle Orientation and Rotation Tracking Discloses Distinctive Rotational Dynamics of Drug Delivery Vectors on Live Cell Membranes. Journal of the American Chemical Society, 2011, 133, 5720-5723.	6.6	96
12	Endocytosis of a single mesoporous silica nanoparticle into a human lung cancer cell observed by differential interference contrast microscopy. Analytical and Bioanalytical Chemistry, 2008, 391, 2119-2125.	1.9	75
13	Optical imaging of non-fluorescent nanoparticleprobes in live cells. Analyst, The, 2010, 135, 215-221.	1.7	73
14	Wavelength-Dependent Differential Interference Contrast Microscopy: Selectively Imaging Nanoparticle Probes in Live Cells. Analytical Chemistry, 2009, 81, 9203-9208.	3.2	66
15	Parameters Affecting the Efficient Delivery of Mesoporous Silica Nanoparticle Materials and Gold Nanorods into Plant Tissues by the Biolistic Method. Small, 2012, 8, 413-422.	5.2	64
16	Determining the Full Threeâ€Đimensional Orientation of Single Anisotropic Nanoparticles by Differential Interference Contrast Microscopy. Angewandte Chemie - International Edition, 2012, 51, 7734-7738.	7.2	61
17	Rotational dynamics of cargos at pauses during axonal transport. Nature Communications, 2012, 3, 1030.	5.8	59
18	Three-Dimensional Super-Localization and Tracking of Single Gold Nanoparticles in Cells. Analytical Chemistry, 2012, 84, 4111-4117.	3.2	57

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19	Focused Orientation and Position Imaging (FOPI) of Single Anisotropic Plasmonic Nanoparticles by Total Internal Reflection Scattering Microscopy. Nano Letters, 2012, 12, 4282-4288.	4.5	57
20	Characteristic rotational behaviors of rod-shaped cargo revealed by automated five-dimensional single particle tracking. Nature Communications, 2017, 8, 887.	5.8	53
21	Unique Challenges Accompany Thick-Shell CdSe/nCdS (n > 10) Nanocrystal Synthesis. Journal of Physical Chemistry C, 2012, 116, 2791-2800.	1.5	51
22	High-Precision Tracking with Non-blinking Quantum Dots Resolves Nanoscale Vertical Displacement. Journal of the American Chemical Society, 2012, 134, 6108-6111.	6.6	49
23	Differential interference contrast polarization anisotropy for tracking rotational dynamics of gold nanorods. Chemical Communications, 2011, 47, 7743.	2.2	48
24	Determination of potentially anti-carcinogenic flavonoids in wines by micellar electrokinetic chromatography. Food Chemistry, 2008, 106, 415-420.	4.2	47
25	Dual-Wavelength Detection of Rotational Diffusion of Single Anisotropic Nanocarriers on Live Cell Membranes. Journal of Physical Chemistry C, 2012, 116, 2766-2771.	1.5	46
26	Analysis of amphetamine, methamphetamine and methylenedioxy-methamphetamine by micellar capillary electrophoresis using cation-selective exhaustive injection. Electrophoresis, 2006, 27, 3210-3217.	1.3	45
27	Mobility-Based Wall Adsorption Isotherms for Comparing Capillary Electrophoresis with Single-Molecule Observations. Analytical Chemistry, 2007, 79, 6047-6054.	3.2	44
28	Deciphering nanoconfinement effects on molecular orientation and reaction intermediate by single molecule imaging. Nature Communications, 2019, 10, 4815.	5.8	44
29	Influence of Gold Nanorod Geometry on Optical Response. ACS Nano, 2010, 4, 7667-7675.	7.3	41
30	Super-resolution of fluorescence-free plasmonic nanoparticles using enhanced dark-field illumination based on wavelength-modulation. Scientific Reports, 2015, 5, 11447.	1.6	40
31	A Laminated Microfluidic Device for Comprehensive Preclinical Testing in the Drug ADME Process. Scientific Reports, 2016, 6, 25022.	1.6	37
32	Three-Dimensional Orientation Determination of Stationary Anisotropic Nanoparticles with Sub-Degree Precision under Total Internal Reflection Scattering Microscopy. Nano Letters, 2013, 13, 5414-5419.	4.5	35
33	Label-free and nicking enzyme-assisted fluorescence signal amplification for RNase H determination based on a G-quadruplexe/thioflavin T complex. Talanta, 2018, 182, 142-147.	2.9	35
34	Revealing Rotational Modes of Functionalized Gold Nanorods on Live Cell Membranes. Small, 2013, 9, 785-792.	5.2	33
35	Single molecule fluorescence imaging of nanoconfinement in porous materials. Chemical Society Reviews, 2021, 50, 6483-6506.	18.7	33
36	Linkage position and residue identification of disaccharides by tandem mass spectrometry and linear discriminant analysis. Rapid Communications in Mass Spectrometry, 2008, 22, 1579-1586.	0.7	32

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37	Three-Dimensional High-Resolution Rotational Tracking with Superlocalization Reveals Conformations of Surface-Bound Anisotropic Nanoparticles. Nano Letters, 2013, 13, 1245-1250.	4.5	32
38	Dynamin-dependent vesicle twist at the final stage of clathrin-mediated endocytosis. Nature Cell Biology, 2021, 23, 859-869.	4.6	32
39	Autocalibrated Scanning-Angle Prism-Type Total Internal Reflection Fluorescence Microscopy for Nanometer-Precision Axial Position Determination. Analytical Chemistry, 2010, 82, 2441-2447.	3.2	31
40	Single Molecule Investigation of Nanoconfinement Hydrophobicity in Heterogeneous Catalysis. Journal of the American Chemical Society, 2020, 142, 13305-13309.	6.6	31
41	Single Particle Orientation and Rotational Tracking (SPORT) in biophysical studies. Nanoscale, 2013, 5, 10753.	2.8	30
42	Binding and Uptake of RGD-Containing Ligands to Cellular Î± v Î² 3 Integrins. International Journal of Peptide Research and Therapeutics, 2009, 15, 49-59.	0.9	29
43	Recent advances in singleâ€molecule detection on microâ€and nanoâ€fluidic devices. Electrophoresis, 2011, 32, 3308-3318.	1.3	29
44	Capillary Electrophoresis Frontal Analysis for Characterization of Î±_vÎ²₃ Integrin Binding Interactions. Analytical Chemistry, 2008, 80, 3105-3111.	3.2	27
45	Simultaneous Single-Particle Superlocalization and Rotational Tracking. ACS Nano, 2013, 7, 1658-1665.	7.3	26
46	Stochastic Optical Reconstruction Microscopy Imaging of Microtubule Arrays in Intact Arabidopsis thaliana Seedling Roots. Scientific Reports, 2015, 5, 15694.	1.6	26
47	Geometryâ€Assisted Threeâ€Dimensional Superlocalization Imaging of Singleâ€Molecule Catalysis on Modular Multilayer Nanocatalysts. Angewandte Chemie - International Edition, 2014, 53, 12865-12869.	7.2	24
48	Three-Dimensional Orientation of Anisotropic Plasmonic Aggregates at Intracellular Nuclear Indentation Sites by Integrated Light Sheet Super-Resolution Microscopy. ACS Nano, 2018, 12, 4156-4163.	7.3	22
49	Single-molecule photocatalytic dynamics at individual defects in two-dimensional layered materials. Science Advances, 2021, 7, eabj4452.	4.7	22
50	Wavelength-Dependent Differential Interference Contrast Microscopy: Multiplexing Detection Using Nonfluorescent Nanoparticles. Analytical Chemistry, 2010, 82, 6675-6679.	3.2	21
51	General Approach to High-Efficiency Simulation of Affinity Capillary Electrophoresis. Analytical Chemistry, 2005, 77, 840-847.	3.2	20
52	Detecting Plasmon Resonance Energy Transfer with Differential Interference Contrast Microscopy. Analytical Chemistry, 2014, 86, 1196-1201.	3.2	20
53	Multishell Au/Ag/SiO₂ Nanorods with Tunable Optical Properties as Single Particle Orientation and Rotational Tracking Probes. Analytical Chemistry, 2015, 87, 4096-4099.	3.2	20
54	Systematic optimization of exhaustive electrokinetic injection combined with micellar sweeping in capillary electrophoresis. Analyst, The, 2007, 132, 127-134.	1.7	19

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55	Detecting and Tracking Nonfluorescent Nanoparticle Probes in Live Cells. Methods in Enzymology, 2012, 504, 83-108.	0.4	19
56	Rapid subcellular calcium responses and dynamics by calcium sensor G-CatchER+. IScience, 2021, 24, 102129.	1.9	19
57	Dual-Modality Single Particle Orientation and Rotational Tracking of Intracellular Transport of Nanocargos. Analytical Chemistry, 2012, 84, 1134-1138.	3.2	18
58	Enumeration Algorithm for Determination of Binding Constants in Capillary Electrophoresis. Analytical Chemistry, 2005, 77, 2415-2420.	3.2	16
59	In Situ Identification of Nanoparticle Structural Information Using Optical Microscopy. Journal of Physical Chemistry Letters, 2018, 9, 2886-2892.	2.1	16
60	Quantitative Analysis of Systematic Errors Originated from Wall Adsorption and Sample Plug Lengths in Affinity Capillary Electrophoresis Using Two-Dimensional Simulation. Analytical Chemistry, 2007, 79, 5343-5350.	3.2	14
61	Computer simulation of different modes of ACE based on the dynamic complexation model. Electrophoresis, 2007, 28, 3214-3222.	1.3	14
62	Partitioning of nanoscale particles on a heterogeneous multicomponent lipid bilayer. Physical Chemistry Chemical Physics, 2018, 20, 28241-28248.	1.3	14
63	Determination of Shapes and Maximums of Analyte Peaks Based on Solute Mobilities in Capillary Electrophoresis. Analytical Chemistry, 2004, 76, 1708-1714.	3.2	13
64	Behavior of Interacting Species in Capillary Electrophoresis Described by Mass Transfer Equation. Analytical Chemistry, 2006, 78, 1832-1840.	3.2	13
65	Superlocalization of Single Molecules and Nanoparticles in High-Fidelity Optical Imaging Microfluidic Devices. Analytical Chemistry, 2011, 83, 5073-5077.	3.2	13
66	Plasmonic Behavior of Single Gold Dumbbells and Simple Dumbbell Geometries. Journal of Physical Chemistry C, 2013, 117, 16195-16202.	1.5	13
67	Augmented 3D super-resolution of fluorescence-free nanoparticles using enhanced dark-field illumination based on wavelength-modulation and a least-cubic algorithm. Scientific Reports, 2016, 6, 32863.	1.6	13
68	Metal ions-modulated near-infrared electrochemiluminescence from Au nanoclusters enhanced by 4-(2-Hydroxyethyl)-1-piperazineethanesulfonic acid at physiological pH. Electrochimica Acta, 2018, 282, 369-376.	2.6	13
69	Single-molecule immunosorbent assay as a tool for human immunodeficiency virus-1 antigen detection. Analytical and Bioanalytical Chemistry, 2009, 394, 489-497.	1.9	12
70	Behavior of interacting species in vacancy affinity capillary electrophoresis described by mass balance equation. Electrophoresis, 2008, 29, 3333-3341.	1.3	11
71	Self-assembly of a conjugated triblock copolymer at the airâ€“water interface. Soft Matter, 2013, 9, 8050.	1.2	11
72	Towards single-cell analysis for pharmacokinetics. Bioanalysis, 2012, 4, 453-463.	0.6	10

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73	Differential interference contrast microscopy imaging of micrometer-long plasmonic nanowires. Chemical Communications, 2013, 49, 11038.	2.2	10
74	Localization accuracy of gold nanoparticles in single particle orientation and rotational tracking. Optics Express, 2017, 25, 9860.	1.7	10
75	Tuning Protein Dynamics to Sense Rapid Endoplasmicâ€Reticulum Calcium Dynamics. Angewandte Chemie - International Edition, 2021, 60, 23289-23298.	7.2	10
76	Influence of Polarization Setting on Gold Nanorod Signal at Nonplasmonic Wavelengths Under Differential Interference Contrast Microscopy. Analytical Chemistry, 2012, 84, 5210-5215.	3.2	8
77	Resolving cargo-motor-track interactions with bifocal parallax single-particle tracking. Biophysical Journal, 2021, 120, 1378-1386.	0.2	8
78	Extracellular calcium alters calcium-sensing receptor network integrating intracellular calcium-signaling and related key pathway. Scientific Reports, 2021, 11, 20576.	1.6	8
79	Reverse of Mixing Process with a Two-Dimensional Electro-Fluid-Dynamic Device. Analytical Chemistry, 2010, 82, 2182-2185.	3.2	7
80	Whole-Cell Scan Using Automatic Variable-Angle and Variable-Illumination-Depth Pseudoâ€"Total Internal Reflection Fluorescence Microscopy. Journal of the Association for Laboratory Automation, 2011, 16, 255-262.	2.8	7
81	Geometryâ€Assisted Threeâ€Dimensional Superlocalization Imaging of Singleâ€Molecule Catalysis on Modular Multilayer Nanocatalysts. Angewandte Chemie, 2014, 126, 13079-13083.	1.6	6
82	Monitoring the Stimulated Uncapping Process of Gold-Capped Mesoporous Silica Nanoparticles. Analytical Chemistry, 2018, 90, 3183-3188.	3.2	6
83	Analyte Distribution at Channel Intersections of Electro-Fluid-Dynamic Devices. Analytical Chemistry, 2011, 83, 1189-1192.	3.2	5
84	High angular-resolution automated visible-wavelength scanning angle Raman microscopy. Analytica Chimica Acta, 2014, 848, 61-66.	2.6	5
85	Dark Field Microscopy for Analytical Laboratory Courses. Journal of Chemical Education, 2014, 91, 908-910.	1.1	5
86	Nanosecond Timeâ€Resolution Study of Gold Nanorod Rotation at the Liquidâ€"Solid Interface. ChemPhysChem, 2016, 17, 2218-2224.	1.0	5
87	Effects of Rosa roxburghii Extract on Proliferation and Differentiation in Human Hepatoma SMMC-7721 Cells and CD34+ Haematopoietic Cells. Journal of Health Science, 2007, 53, 10-15.	0.9	4
88	Defocused differential interference contrast microscopy imaging of single plasmonic anisotropic nanoparticles. Chemical Communications, 2014, 50, 5500-5502.	2.2	4
89	Combinatorial Single Particle Spectro-Microscopic Analysis of Plasmon Coupling of Gold Nanorods on Mirror. Journal of Physical Chemistry C, 0, , .	1.5	4
90	Potential of Two-Dimensional Electro-Fluid-Dynamic Devices for Continuous Purification of Multiple Components from Complex Samples. Analytical Chemistry, 2011, 83, 8208-8214.	3.2	2

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91	Imaging Non-fluorescent Nanoparticles in Living Cells with Wavelength-Dependent Differential Interference Contrast Microscopy and Planar Illumination Microscopy. Methods in Molecular Biology, 2012, 931, 169-186.	0.4	2
92	Resolving the Heterogeneous Adsorption of Antibody Fragment on a 2D Layered Molybdenum Disulfide by Super-Resolution Imaging. Langmuir, 2022, 38, 7455-7461.	1.6	2
93	Multiscale Evolution of Bulk Heterojunction Solar Cell Active Layers under Thermal Stress. Analytical Chemistry, 2021, 93, 1232-1236.	3.2	1
94	Imaging Dynamic Processes in Multiple Dimensions and Length Scales. Annual Review of Physical Chemistry, 2022, 73, .	4.8	1
95	A Whole-Cell Binding Assay for Testing the Targeting Potential of Cyclic Peptide Ligands. , 2006, , 593-594.		0
96	Deciphering Orientation and Rotational Information of Cargoes at Pauses During Axonal Transport. Biophysical Journal, 2012, 102, 38a-39a.	0.2	0
97	Single Particle Orientation and Rotational Tracking. Biophysical Journal, 2013, 104, 670a.	0.2	0
98	Dynamic Behavior of Noble Metal Nanoparticle Assemblies in Solution. Materials Research Society Symposia Proceedings, 2013, 1546, 1.	0.1	0
99	Super-Resolution Imaging in Plant Cells. Biophysical Journal, 2014, 106, 200a.	0.2	0
100	Automatic Five-Dimensional Single Particle Tracking in Live Cells. Biophysical Journal, 2016, 110, 165a.	0.2	0