Yong Wang

List of Publications by Citations

38 papers	660 citations	16 h-index	25 g-index
44 ext. papers	854 ext. citations	4.5 avg, IF	4.32 L-index

#	Paper	IF	Citations
38	Single molecule FRET reveals pore size and opening mechanism of a mechano-sensitive ion channel. *ELife*, **2014**, 3, e01834	8.9	88
37	3D super-resolution imaging with blinking quantum dots. *Nano Letters*, **2013**, 13, 5233-41	11.5	86
36	Stable small quantum dots for synaptic receptor tracking on live neurons. *Angewandte Chemie - International Edition*, **2014**, 53, 12484-8	16.4	38
35	Polydopamine Surface Coating Synergizes the Antimicrobial Activity of Silver Nanoparticles. *ACS Applied Materials & Interfaces*, **2020**, 12, 40067-40077	9.5	37
34	Antibacterial activity and osseointegration of silver-coated poly(ether ether ketone) prepared using the polydopamine-assisted deposition technique. *Journal of Materials Chemistry B*, **2017**, 5, 9326-9336	7.3	31
33	Elasticity of globular proteins measured from the ac susceptibility. *Physical Review Letters*, **2010**, 105, 238104	7.4	29
32	Quantitative Localization Microscopy Reveals a Novel Organization of a High-Copy Number Plasmid. *Biophysical Journal*, **2016**, 111, 467-479	2.9	29
31	An experiment-based model quantifying antimicrobial activity of silver nanoparticles on Escherichia coli. *RSC Advances*, **2017**, 7, 56173-56182	3.7	28
30	The elastic energy of sharply bent nicked DNA. *Europhysics Letters*, **2010**, 90, 18003	1.6	28
29	Small quantum dots conjugated to nanobodies as immunofluorescence probes for nanometric microscopy. *Bioconjugate Chemistry*, **2014**, 25, 2205-11	6.3	25
28	The folded protein as a viscoelastic solid. *Europhysics Letters*, **2011**, 96, 18003	1.6	25
27	Spatial distribution of high copy number plasmids in bacteria. *Plasmid*, **2017**, 91, 2-8	3.3	19
26	Silver Ions Caused Faster Diffusive Dynamics of Histone-Like Nucleoid-Structuring Proteins in Live Bacteria. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	19
25	Viscoelastic transition and yield strain of the folded protein. *PLoS ONE*, **2011**, 6, e28097	3.7	19
24	Anomalous, non-Gaussian, viscoelastic, and age-dependent dynamics of histonelike nucleoid-structuring proteins in live Escherichia coli. *Physical Review E*, **2018**, 98,	2.4	19
23	Molecular Counting with Localization Microscopy: A Bayesian Estimate Based on Fluorophore Statistics. *Biophysical Journal*, **2017**, 112, 1777-1785	2.9	16
22	Critical Torque for Kink Formation in Double-Stranded DNA. *Physical Review X*, **2011**, 1,	9.1	14

21	Protein-DNA chimeras: synthesis of two-arm chimeras and non-mechanical effects of the DNA spring. *Journal of Physics Condensed Matter*, **2009**, 21, 335103	1.8	14
20	Nanoscale reorganizations of histone-like nucleoid structuring proteins in Escherichia coli are caused by silver nanoparticles. *Nanotechnology*, **2019**, 30, 385101	3.4	13
19	A new analysis method for evaluating bacterial growth with microplate readers. *PLoS ONE*, **2021**, 16, e0245205	3.7	11
18	Microampere Electric Current Causes Bacterial Membrane Damage and Two-Way Leakage in a Short Period of Time. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	9
17	Mechanical Flexibility of DNA: A Quintessential Tool for DNA Nanotechnology. *Sensors*, **2020**, 20,	3.8	8
16	Stable Small Quantum Dots for Synaptic Receptor Tracking on Live Neurons. *Angewandte Chemie*, **2014**, 126, 12692-12696	3.6	8
15	Turgor-dependent and coronin-mediated F-actin dynamics drive septin disc-to-ring remodeling in the blast fungus. *Journal of Cell Science*, **2021**, 134,	5.3	7
14	Determination of optical constants and inhomogeneity of optical films by two-step film envelope method. *Thin Solid Films*, **2007**, 515, 4763-4767	2.2	6
13	Mechanical-energy-based amplifiers for probing interactions of DNA with metal ions. *Physical Review E*, **2018**, 98,	2.4	6
12	Silver ions cause oscillation of bacterial length of Escherichia coli. *Scientific Reports*, **2019**, 9, 11745	4.9	4
11	Shape of fair weather clouds. *Physical Review Letters*, **2010**, 104, 118502	7.4	4
10	Fluorescence imaging with one-nanometer accuracy (FIONA). *Journal of Visualized Experiments*, **2014**, 51774	1.6	3
9	Study Hankel Transforms and Properties of Bessel Function via Entangled State Representation Transformation in Quantum Mechanics. *Communications in Theoretical Physics*, **2006**, 45, 819-824	2.4	3
8	Generating Generalized Bessel Equations by Virtue of Bose Operator Algebra and Entangled State Representations. *Communications in Theoretical Physics*, **2006**, 45, 71-74	2.4	3
7	Robust nonparametric quantification of clustering density of molecules in single-molecule localization microscopy. *PLoS ONE*, **2017**, 12, e0179975	3.7	3
6	Bent DNA Bows as Sensing Amplifiers for Detecting DNA-Interacting Salts and Molecules. *Sensors*, **2020**, 20,	3.8	2
5	Real-Time Imaging of Laser-Induced Nanowelding of Silver Nanoparticles in Solution. *Journal of Physical Chemistry C*, **2021**, 125, 10422-10430	3.8	2
4	Faster diffusive dynamics of histone-like nucleoid structuring proteins in live bacteria caused by silver ions		1

3	Bent DNA bows as amplifiers and biosensors for detecting DNA-interacting salts and molecules		1
2	Interactions of E. coli with cylindrical micro-pillars of different geometric modifications. *Colloids and Surfaces B: Biointerfaces*, **2022**, 209, 112190	6	0
1	Enzyme-DNA chimeras: Construction, allostery, applications. *Methods in Enzymology*, **2021**, 647, 257-281	1.7	