

Yong Wang

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

984
citations

471061

17
h-index

454577

30
g-index

44
all docs

44
docs citations

44
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Single molecule FRET reveals pore size and opening mechanism of a mechano-sensitive ion channel. <i>ELife</i> , 2014, 3, e01834.	2.8	116
2	3D Super-Resolution Imaging with Blinking Quantum Dots. <i>Nano Letters</i> , 2013, 13, 5233-5241.	4.5	101
3	Polydopamine Surface Coating Synergizes the Antimicrobial Activity of Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40067-40077.	4.0	79
4	Stable Small Quantum Dots for Synaptic Receptor Tracking on Live Neurons. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12484-12488.	7.2	60
5	Antibacterial activity and osseointegration of silver-coated poly(ether ether ketone) prepared using the polydopamine-assisted deposition technique. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9326-9336.	2.9	54
6	Quantitative Localization Microscopy Reveals a Novel Organization of a High-Copy Number Plasmid. <i>Biophysical Journal</i> , 2016, 111, 467-479.	0.2	44
7	An experiment-based model quantifying antimicrobial activity of silver nanoparticles on <i>Escherichia coli</i> . <i>RSC Advances</i> , 2017, 7, 56173-56182.	1.7	38
8	A new analysis method for evaluating bacterial growth with microplate readers. <i>PLoS ONE</i> , 2021, 16, e0245205.	1.1	37
9	Silver Ions Caused Faster Diffusive Dynamics of Histone-Like Nucleoid-Structuring Proteins in Live Bacteria. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	34
10	Anomalous, non-Gaussian, viscoelastic, and age-dependent dynamics of histonelike nucleoid-structuring proteins in live <i>Escherichia coli</i> . <i>Physical Review E</i> , 2018, 98, .	0.8	33
11	The elastic energy of sharply bent nicked DNA. <i>Europhysics Letters</i> , 2010, 90, 18003.	0.7	32
12	Elasticity of Globular Proteins Measured from the ac Susceptibility. <i>Physical Review Letters</i> , 2010, 105, 238104.	2.9	31
13	The folded protein as a viscoelastic solid. <i>Europhysics Letters</i> , 2011, 96, 18003.	0.7	30
14	Small Quantum Dots Conjugated to Nanobodies as Immunofluorescence Probes for Nanometric Microscopy. <i>Bioconjugate Chemistry</i> , 2014, 25, 2205-2211.	1.8	29
15	Spatial distribution of high copy number plasmids in bacteria. <i>Plasmid</i> , 2017, 91, 2-8.	0.4	29
16	Molecular Counting with Localization Microscopy: A Bayesian Estimate Based on Fluorophore Statistics. <i>Biophysical Journal</i> , 2017, 112, 1777-1785.	0.2	26
17	Microampere Electric Current Causes Bacterial Membrane Damage and Two-Way Leakage in a Short Period of Time. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	26
18	Viscoelastic Transition and Yield Strain of the Folded Protein. <i>PLoS ONE</i> , 2011, 6, e28097.	1.1	22

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19	Nanoscale reorganizations of histone-like nucleoid structuring proteins in <i>Escherichia coli</i> are caused by silver nanoparticles. <i>Nanotechnology</i> , 2019, 30, 385101.	1.3	21
20	Mechanical Flexibility of DNA: A Quintessential Tool for DNA Nanotechnology. <i>Sensors</i> , 2020, 20, 7019.	2.1	20
21	Critical Torque for Kink Formation in Double-Stranded DNA. <i>Physical Review X</i> , 2011, 1, .	2.8	17
22	Turgor-dependent and coronin-mediated F-actin dynamics drive septin disc-to-ring remodeling in the blast fungus <i>Magnaporthe oryzae</i> . <i>Journal of Cell Science</i> , 2021, 134, .	1.2	17
23	Protein-DNA chimeras: synthesis of two-arm chimeras and non-mechanical effects of the DNA spring. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 335103.	0.7	15
24	Silver ions cause oscillation of bacterial length of <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2019, 9, 11745.	1.6	8
25	Determination of optical constants and inhomogeneity of optical films by two-step film envelope method. <i>Thin Solid Films</i> , 2007, 515, 4763-4767.	0.8	7
26	Shape of Fair Weather Clouds. <i>Physical Review Letters</i> , 2010, 104, 118502.	2.9	6
27	Mechanical-energy-based amplifiers for probing interactions of DNA with metal ions. <i>Physical Review E</i> , 2018, 98, .	0.8	6
28	Real-Time Imaging of Laser-Induced Nanowelding of Silver Nanoparticles in Solution. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10422-10430.	1.5	5
29	Generating Generalized Bessel Equations by Virtue of Bose Operator Algebra and Entangled State Representations. <i>Communications in Theoretical Physics</i> , 2006, 45, 71-74.	1.1	4
30	Fluorescence Imaging with One-nanometer Accuracy (FIONA). <i>Journal of Visualized Experiments</i> , 2014, , 51774.	0.2	4
31	Bent DNA Bows as Sensing Amplifiers for Detecting DNA-Interacting Salts and Molecules. <i>Sensors</i> , 2020, 20, 3112.	2.1	4
32	Robust nonparametric quantification of clustering density of molecules in single-molecule localization microscopy. <i>PLoS ONE</i> , 2017, 12, e0179975.	1.1	4
33	Study Hankel Transforms and Properties of Bessel Function via Entangled State Representation Transformation in Quantum Mechanics. <i>Communications in Theoretical Physics</i> , 2006, 45, 819-824.	1.1	3
34	Interactions of <i>E. coli</i> with cylindrical micro-pillars of different geometric modifications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 209, 112190.	2.5	3
35	Revisiting the Temperature Dependence of Protein Diffusion inside Bacteria: Validity of the Stokes-Einstein Equation. <i>Physical Review Letters</i> , 2022, 129, .	2.9	3
36	Continuous active development of super-resolution fluorescence microscopy. <i>Physical Biology</i> , 2020, 17, 030401.	0.8	2

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37	Bacterial Growth Curve Measurements with a Multimode Microplate Reader. Bio-protocol, 2022, 12, .	0.2	2
38	Enzyme-DNA chimeras: Construction, allostery, applications. Methods in Enzymology, 2021, 647, 257-281.	0.4	1