Quan Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1289392/publications.pdf

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		623734	839539
22	795	14	18
papers	citations	h-index	g-index

27	27	27	908
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-molecule motions enable direct visualization of biomolecular interactions in solution. Nature Methods, 2014, 11, 555-558.	19.0	102
2	Probing Single Biomolecules in Solution Using the Anti-Brownian Electrokinetic (ABEL) Trap. Accounts of Chemical Research, 2012, 45, 1955-1964.	15.6	89
3	An Adaptive Anti-Brownian Electrokinetic Trap with Real-Time Information on Single-Molecule Diffusivity and Mobility. ACS Nano, 2011, 5, 5792-5799.	14.6	81
4	Single-molecule spectroscopy and imaging over the decades. Faraday Discussions, 2015, 184, 9-36.	3.2	79
5	Single-molecule spectroscopy reveals photosynthetic LH2 complexes switch between emissive states. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10899-10903.	7.1	78
6	Optimal strategy for trapping single fluorescent molecules inÂsolution using the ABEL trap. Applied Physics B: Lasers and Optics, 2010, 99, 23-30.	2.2	69
7	Lifetime and Spectrally Resolved Characterization of the Photodynamics of Single Fluorophores in Solution Using the Anti-Brownian Electrokinetic Trap. Journal of Physical Chemistry B, 2013, 117, 4641-4648.	2.6	53
8	Ground-State Proton Transfer Kinetics in Green Fluorescent Protein. Biochemistry, 2014, 53, 5947-5957.	2.5	51
9	Dissecting pigment architecture of individual photosynthetic antenna complexes in solution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13880-13885.	7.1	37
10	Single-molecule diffusometry reveals no catalysis-induced diffusion enhancement of alkaline phosphatase as proposed by FCS experiments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21328-21335.	7.1	32
11	ABEL-FRET: tether-free single-molecule FRET with hydrodynamic profiling. Nature Methods, 2021, 18, 816-820.	19.0	27
12	Single-molecule spectroscopy of photosynthetic proteins in solution: exploration of structureâ€“function relationships. Chemical Science, 2014, 5, 2933-2939.	7.4	26
13	Single-molecule diffusometry reveals the nucleotide-dependent oligomerization pathways of Nicotiana tabacum Rubisco activase. Journal of Chemical Physics, 2018, 148, 123319.	3.0	25
14	Hardware-based anti-Brownian electrokinetic trap (ABEL trap) for single molecules: control loop simulations and application to ATP binding stoichiometry in multi-subunit enzymes. Proceedings of SPIE, 2008, 7038, 1-12.	0.8	18
15	A bottom-up perspective on photodynamics and photoprotection in light-harvesting complexes using anti-Brownian trapping. Journal of Chemical Physics, 2022, 156, 070901.	3.0	5
16	Spectrally resolved anti-Brownian electrokinetic (ABEL) trapping of single peridinin-chlorophyll-proteins in solution. Proceedings of SPIE, 2012, , .	0.8	4
17	Probing DNA-protein interactions using single-molecule diffusivity contrast. Biophysical Reports, 2021, 1, 100009.	1.2	2
18	Joint Detection of Change Points in Multichannel Single-Molecule Measurements. Journal of Physical Chemistry B, 2021, 125, 13425-13435.	2.6	2

#	Article	IF	Citations
19	Spectroscopic and transport measurements of single molecules in solution using an electrokinetic trap. Proceedings of SPIE, 2014, , .	0.8	0
20	An FPGA-based Anti-Brownian Electrokinetic trap for studying single molecules in solution. , 2009, , .		0
21	An Adaptive Anti-Brownian Electrokinetic Trap for Prolonged Observation of Single Molecules in Solution. , 2011, , .		0
22	Tetherless, precise and extended observation of single-molecule FRET in an Anti-Brownian trap. , 2019, , .		0