

Bin Wang

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

551
citations

623734

14
h-index

713466

21
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22
all docs

22
docs citations

22
times ranked

864
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular rectifier composed of DNA with high rectification ratio enabled by intercalation. <i>Nature Chemistry</i> , 2016, 8, 484-490.	13.6	156
2	Combined use of chiral ionic liquid and cyclodextrin for MEKC: Part I. Simultaneous enantioseparation of anionic profens. <i>Electrophoresis</i> , 2009, 30, 2812-2819.	2.4	64
3	Combined use of chiral ionic liquid and CD for MEKC: Part II. Determination of binding constants. <i>Electrophoresis</i> , 2009, 30, 2820-2828.	2.4	38
4	Measurements of single molecular affinity interactions between carbohydrate-binding modules and crystalline cellulose fibrils. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6508.	2.8	34
5	High-Resolution Single-Molecule Recognition Imaging of the Molecular Details of Ricin-Aptamer Interaction. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5316-5322.	2.6	30
6	Following aptamer-ricin specific binding by single molecule recognition and force spectroscopy measurements. <i>Chemical Communications</i> , 2012, 48, 1644-1646.	4.1	29
7	Structure determined charge transport in single DNA molecule break junctions. <i>Chemical Science</i> , 2014, 5, 3425-3431.	7.4	27
8	Molecular-level insights of early-stage prion protein aggregation on mica and gold surface determined by AFM imaging and molecular simulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 371-378.	5.0	24
9	Immunoassay Biosensing of Foodborne Pathogens with Surface Plasmon Resonance Imaging: A Review. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 12927-12939.	5.2	24
10	Structural basis of single molecular heparin-FX06 interaction revealed by SPM measurements and molecular simulations. <i>Chemical Communications</i> , 2012, 48, 12222.	4.1	18
11	Mapping Single Molecular Binding Kinetics of Carbohydrate-Binding Module with Crystalline Cellulose by Atomic Force Microscopy Recognition Imaging. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6714-6720.	2.6	18
12	Following the aggregation of human prion protein on Au(111) surface in real-time. <i>Chemical Communications</i> , 2015, 51, 2088-2090.	4.1	17
13	Surface conformations of an anti-ricin aptamer and its affinity for ricin determined by atomic force microscopy and surface plasmon resonance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 307-314.	2.8	16
14	Single glucose molecule transport process revealed by force tracing and molecular dynamics simulations. <i>Nanoscale Horizons</i> , 2018, 3, 517-524.	8.0	14
15	Label-free biosensing of <i>Salmonella enterica</i> serovars at single-cell level. <i>Journal of Nanobiotechnology</i> , 2017, 15, 40.	9.1	13
16	Transition model for ricin-aptamer interactions with multiple pathways and energy barriers. <i>Physical Review E</i> , 2014, 89, 022720.	2.1	6
17	Effect of the electrostatic surface potential on the oligomerization of full-length human recombinant prion protein at single-molecule level. <i>Journal of Chemical Physics</i> , 2016, 144, 114701.	3.0	6
18	Label-Free Immunoassay for Multiplex Detections of Foodborne Bacteria in Chicken Carcass Rinse with Surface Plasmon Resonance Imaging. <i>Foodborne Pathogens and Disease</i> , 2021, 18, 202-209.	1.8	6

#	ARTICLE	IF	CITATIONS
19	Determining the elastic properties of aptamer-ricin single molecule multiple pathway interactions. Applied Physics Letters, 2014, 104, 193702.	3.3	5
20	Nanoscale insights into full-length prion protein aggregation on model lipid membranes. Chemical Communications, 2016, 52, 8533-8536.	4.1	4
21	The molecular basis of interaction domains of full-length PrP with lipid membranes. Nanoscale, 2019, 11, 12087-12091.	5.6	2
22	A high-throughput perfusion-based micro three-dimensional cell culture platform. , 2011, , .		0