Victoria Birkedal

List of Publications by Year
in descending order

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75 papers	3,978 citations	257450 24 h-index	123424 61 g-index
79 all docs	79 docs citations	79 times ranked	4610 citing authors

#	Article	IF	Citations
1	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. ELife, 2021, 10, .	6.0	152
2	Bandgap Tuning in Molecular Alloy Crystals Formed by Weak Chalcogen Interactions. Journal of Physical Chemistry Letters, 2021, 12, 3059-3065.	4.6	12
3	Ligand Binding to Dynamically Populated Gâ€Quadruplex DNA. ChemBioChem, 2021, 22, 1811-1817.	2.6	16
4	A Single Molecule Polyphenylene-Vinylene Photonic Wire. ACS Nano, 2021, 15, 9404-9411.	14.6	14
5	Tuning of bandgaps and emission properties of light-emitting diode materials through homogeneous alloying in molecular crystals. Chemical Science, 2021, 12, 12391-12399.	7.4	5
6	A serum-stable RNA aptamer specific for SARS-CoV-2 neutralizes viral entry. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	58
7	Ultra-fast detection and quantification of nucleic acids by amplification-free fluorescence assay. Analyst, The, 2020, 145, 5836-5844.	3.5	7
8	Single molecule analysis of structural fluctuations in DNA nanostructures. Nanoscale, 2019, 11, 18475-18482.	5.6	9
9	Controlled aggregation of DNA functionalized poly(phenylene-vinylene). Chemical Communications, 2018, 54, 5534-5537.	4.1	4
10	Single-Molecule FRET Investigations of Tandem Human Telomeric G-Quadruplex Structures. Biophysical Journal, 2018, 114, 597a.	0.5	0
11	Precision and accuracy of single-molecule FRET measurementsâ€”a multi-laboratory benchmark study. Nature Methods, 2018, 15, 669-676.	19.0	350
12	Multifluorophore DNA Origami Beacon as a Biosensing Platform. ACS Nano, 2018, 12, 5699-5708.	14.6	94
13	Tailored protein encapsulation into a DNA host using geometrically organized supramolecular interactions. Nature Communications, 2017, 8, 14472.	12.8	73
14	Single - Molecule Fluorescence Microscopy of Folding Dynamics of G-Quadruplex DNA. Biophysical Journal, 2017, 112, 214a-215a.	0.5	0
15	Enzyme-free colorimetric detection systems based on the DNA strand displacement competition reaction. New Journal of Physics, 2016, 18, 055002.	2.9	3
16	Influence of the Background in Single Molecule FRET TIRF Microscopy. Biophysical Journal, 2016, 110, 194a.	0.5	0
17	Probing the Folding Dynamics of Human Telomeric G-Quadruplex with Single-Molecule FRET. Biophysical Journal, 2016, 110, 406a.	0.5	0
18	Engineering a Prototypic P-type ATPase Listeria monocytogenes Ca²⁺-ATPase 1 for Single-Molecule FRET Studies. Bioconjugate Chemistry, 2016, 27, 2176-2187.	3.6	9

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19	Optimal Background Estimators in Single-Molecule FRET Microscopy. Biophysical Journal, 2016, 111, 1278-1286.	0.5	16
20	A direct view of the complex multi-pathway folding of telomeric G-quadruplexes. Nucleic Acids Research, 2016, 44, 11024-11032.	14.5	59
21	Programmed Switching of Single Polymer Conformation on DNA Origami. ACS Nano, 2016, 10, 2243-2250.	14.6	46
22	Folding dynamics and conformational heterogeneity of human telomeric G-quadruplex structures in Na⁺solutions by single molecule FRET microscopy. Nucleic Acids Research, 2016, 44, 464-471.	14.5	63
23	Biosensors: Construction of a Fuzzy and Boolean Logic Gates Based on DNA (Small 15/2015). Small, 2015, 11, 1860-1860.	10.0	0
24	Single Molecule FRET Analysis of the Closed and Open States of a DNA Origami Box. Biophysical Journal, 2015, 108, 175a.	0.5	1
25	Dynamics of Fluorescent Dyes Attached to Gâ€Quadruplex DNA and their Effect on FRET Experiments. ChemPhysChem, 2015, 16, 2562-2570.	2.1	12
26	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. Faraday Discussions, 2015, 184, 275-303.	3.2	13
27	Construction of a Fuzzy and Boolean Logic Gates Based on DNA. Small, 2015, 11, 1811-1817.	10.0	86
28	Insights into Nucleic Acids Structural Dynamics with Single Molecule FRET Studies. Biophysical Journal, 2015, 108, 6a.	0.5	0
29	Fast and User-Friendly Single-Molecule FRET Microscopy Software. Biophysical Journal, 2015, 108, 163a.	0.5	1
30	iSMS: single-molecule FRET microscopy software. Nature Methods, 2015, 12, 593-594.	19.0	99
31	Quantitative single molecule FRET efficiencies using TIRF microscopy. Faraday Discussions, 2015, 184, 131-142.	3.2	16
32	Routing of individual polymers in designed patterns. Nature Nanotechnology, 2015, 10, 892-898.	31.5	189
33	Superresolution techniques, biophysics with nanostructures, and fluorescence energy transfer: general discussion. Faraday Discussions, 2015, 184, 143-162.	3.2	1
34	A DNA-Mediated Homogeneous Binding Assay for Proteins and Small Molecules. Journal of the American Chemical Society, 2014, 136, 11115-11120.	13.7	61
35	Labeled EF-Tus for Rapid Kinetic Studies of Pretranslocation Complex Formation. ACS Chemical Biology, 2014, 9, 2421-2431.	3.4	7
36	Structural Dynamics and Polymorphism of Telomeric G-Quadruplex DNA Structures. Biophysical Journal, 2014, 106, 65a.	0.5	0

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37	Single Molecule FRET Analysis of the 11 Discrete Steps of a DNA Actuator. Journal of the American Chemical Society, 2014, 136, 8957-8962.	13.7	16
38	Function and Movement of a DNA Actuator Investigated by Single Molecule Fret Microscopy. Biophysical Journal, 2014, 106, 226a.	0.5	0
39	The Power of Single-Molecule FRET Microscopy Applied to DNA Nanotechnology. Nucleic Acids and Molecular Biology, 2014, , 53-68.	0.2	1
40	Temperature-Controlled Encapsulation and Release of an Active Enzyme in the Cavity of a Self-Assembled DNA Nanocage. ACS Nano, 2013, 7, 9724-9734.	14.6	132
41	Single molecule FRET data analysis procedures for FRET efficiency determination: Probing the conformations of nucleic acid structures. Methods, 2013, 64, 36-42.	3.8	14
42	Structural Dynamics of Nucleic Acids by Single-Molecule FRET. Methods in Cell Biology, 2013, 113, 1-37.	1.1	11
43	Role of the primer activation signal in tRNA annealing onto the HIV-1 genome studied by single-molecule FRET microscopy. Rna, 2013, 19, 517-526.	3.5	14
44	Extended DNA Tile Actuators. ChemPlusChem, 2012, 77, 636-642.	2.8	1
45	Construction of a 4 Zeptoliters Switchable 3D DNA Box Origami. ACS Nano, 2012, 6, 10050-10053.	14.6	120
46	tRNA Annealing onto the HIV-1 Genome Studied by FRET Spectroscopy and Microscopy. Biophysical Journal, 2012, 102, 278a.	0.5	0
47	Single molecule microscopy methods for the study of DNA origami structures. Microscopy Research and Technique, 2011, 74, 688-698.	2.2	23
48	A DNA Tile Actuator with Eleven Discrete States. Angewandte Chemie - International Edition, 2011, 50, 3983-3987.	13.8	32
49	Interaction of hnRNP A1 with telomere DNA G-quadruplex structures studied at the single molecule level. European Biophysics Journal, 2010, 39, 1343-1350.	2.2	31
50	Self-assembly of a nanoscale DNA box with a controllable lid. Nature, 2009, 459, 73-76.	27.8	1,464
51	Preventing Protein Adsorption from a Range of Surfaces Using an Aqueous Fish Protein Extract. Biomacromolecules, 2009, 10, 2759-2766.	5.4	12
52	Tunable light source for coherent anti-Stokes Raman scattering microspectroscopy based on the soliton self-frequency shift. Optics Letters, 2006, 31, 1328.	3.3	84
53	Observation of a persistent infrared absorption following two photon ionization of liquid water. Chemical Physics, 2006, 328, 119-124.	1.9	8
54	How Do Electrons, Excitons and Trions Share The Reciprocal Space In A Quantum Well?. AIP Conference Proceedings, 2005, , .	0.4	0

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55	Terahertz-optical mixing in undoped and doped GaAs quantum wells: From excitonic to electronic intersubband transitions. Physical Review B, 2005, 72, .	3.2	12
56	Quantum Coherence in an Optical Modulator. Science, 2005, 310, 651-653.	12.6	118
57	Broadband multiplex coherent anti-Stokes Raman scattering microscopy employing photonic-crystal fibers. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1934.	2.1	75
58	Terahertz electro-optic wavelength conversion in GaAs quantum wells: Improved efficiency and room-temperature operation. Applied Physics Letters, 2004, 84, 840-842.	3.3	37
59	Terahertz optical mixing in biasedGaAssingle quantum wells. Physical Review B, 2004, 70, .	3.2	16
60	Interacting many-body systems in quantum wells: Evidence for exciton-trion-electron correlations. Physical Review B, 2004, 69, .	3.2	21
61	Photoluminescence ofp-doped quantum wells with strong spin splitting. Physical Review B, 2004, 70, .	3.2	23
62	Correlated dynamics of trions and excitons in modulation-doped CdTe quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 484-488.	0.8	3
63	Oscillatory behaviour in the nonlinear emission of semiconductor microcavities. Semiconductor Science and Technology, 2004, 19, S333-S335.	2.0	5
64	Terahertz-optical mixing in n-doped GaAs quantum wells: suppression of excitonic resonances. , 2004, , .		0
65	Optical studies of charged excitons in IIÂVI semiconductor quantum wells. Journal of Physics Condensed Matter, 2003, 15, R471-R493.	1.8	37
66	Nonlinear optical dynamics of excitons and trions. Physica Status Solidi (B): Basic Research, 2003, 238, 513-516.	1.5	7
67	Non-Linear Effects on the Spin Dynamics of Polaritons in IIâ€“VI Microcavities. , 2003, , 63-78.		0
68	Diffusion, localization, and dephasing of trions and excitons in CdTe quantum wells. Physical Review B, 2002, 66, .	3.2	22
69	Radiative Lifetime of Negative Trions in GaAs and CdTe Quantum Wells. Physica Status Solidi A, 2000, 178, 495-499.	1.7	4
70	Oscillator strengths of charged excitons: combining magnetoabsorption and photoluminescence dynamics in semimagnetic quantum wells. Journal of Crystal Growth, 2000, 214-215, 837-841.	1.5	4
71	Radiative behavior of negatively charged excitons in CdTe-based quantum wells: A spectral and temporal analysis. Physical Review B, 2000, 62, R16310-R16313.	3.2	74
72	Recombination Dynamics of Negatively Charged Excitons in Gated GaAs Quantum Wells. , 2000, , 169-172.		0

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73	Charged exciton dynamics in GaAs quantum wells. Physical Review B, 1998, 58, 12637-12640.	3.2	66
74	Multiplex coherent anti-Stokes Raman scattering microscopy implemented with two photonic crystal fibers. , 0, , .		0
75	Excitonic Autler-Townes splitting induced by an intense terahertz field. , 0, , .		0