

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	Self-assembly of a nanoscale DNA box with a controllable lid. <i>Nature</i> , 2009, 459, 73-76.	27.8	1,464
2	Precision and accuracy of single-molecule FRET measurements—a multi-laboratory benchmark study. <i>Nature Methods</i> , 2018, 15, 669-676.	19.0	350
3	Routing of individual polymers in designed patterns. <i>Nature Nanotechnology</i> , 2015, 10, 892-898.	31.5	189
4	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021, 10, .	6.0	152
5	Temperature-Controlled Encapsulation and Release of an Active Enzyme in the Cavity of a Self-Assembled DNA Nanocage. <i>ACS Nano</i> , 2013, 7, 9724-9734.	14.6	132
6	Construction of a 4 Zeptoliters Switchable 3D DNA Box Origami. <i>ACS Nano</i> , 2012, 6, 10050-10053.	14.6	120
7	Quantum Coherence in an Optical Modulator. <i>Science</i> , 2005, 310, 651-653.	12.6	118
8	iSMS: single-molecule FRET microscopy software. <i>Nature Methods</i> , 2015, 12, 593-594.	19.0	99
9	Multifluorophore DNA Origami Beacon as a Biosensing Platform. <i>ACS Nano</i> , 2018, 12, 5699-5708.	14.6	94
10	Construction of a Fuzzy and Boolean Logic Gates Based on DNA. <i>Small</i> , 2015, 11, 1811-1817.	10.0	86
11	Tunable light source for coherent anti-Stokes Raman scattering microspectroscopy based on the soliton self-frequency shift. <i>Optics Letters</i> , 2006, 31, 1328.	3.3	84
12	Broadband multiplex coherent anti-Stokes Raman scattering microscopy employing photonic-crystal fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 1934.	2.1	75
13	Radiative behavior of negatively charged excitons in CdTe-based quantum wells: A spectral and temporal analysis. <i>Physical Review B</i> , 2000, 62, R16310-R16313.	3.2	74
14	Tailored protein encapsulation into a DNA host using geometrically organized supramolecular interactions. <i>Nature Communications</i> , 2017, 8, 14472.	12.8	73
15	Charged exciton dynamics in GaAs quantum wells. <i>Physical Review B</i> , 1998, 58, 12637-12640.	3.2	66
16	Folding dynamics and conformational heterogeneity of human telomeric G-quadruplex structures in Na ⁺ solutions by single molecule FRET microscopy. <i>Nucleic Acids Research</i> , 2016, 44, 464-471.	14.5	63
17	A DNA-Mediated Homogeneous Binding Assay for Proteins and Small Molecules. <i>Journal of the American Chemical Society</i> , 2014, 136, 11115-11120.	13.7	61
18	A direct view of the complex multi-pathway folding of telomeric G-quadruplexes. <i>Nucleic Acids Research</i> , 2016, 44, 11024-11032.	14.5	59

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19	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
20	Programmed Switching of Single Polymer Conformation on DNA Origami. ACS Nano, 2016, 10, 2243-2250.	14.6	46
21	Optical studies of charged excitons in II ^{VI} semiconductor quantum wells. Journal of Physics Condensed Matter, 2003, 15, R471-R493.	1.8	37
22	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
23	A DNA Tile Actuator with Eleven Discrete States. Angewandte Chemie - International Edition, 2011, 50, 3983-3987.	13.8	32
24	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
25	Photoluminescence of p-doped quantum wells with strong spin splitting. Physical Review B, 2004, 70, .	3.2	23
26	Single molecule microscopy methods for the study of DNA origami structures. Microscopy Research and Technique, 2011, 74, 688-698.	2.2	23
27	Diffusion, localization, and dephasing of trions and excitons in CdTe quantum wells. Physical Review B, 2002, 66, .	3.2	22
28	Interacting many-body systems in quantum wells: Evidence for exciton-trion-electron correlations. Physical Review B, 2004, 69, .	3.2	21
29	Terahertz optical mixing in biased GaAs single quantum wells. Physical Review B, 2004, 70, .	3.2	16
30	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
31	Quantitative single molecule FRET efficiencies using TIRF microscopy. Faraday Discussions, 2015, 184, 131-142.	3.2	16
32	Optimal Background Estimators in Single-Molecule FRET Microscopy. Biophysical Journal, 2016, 111, 1278-1286.	0.5	16
33	Ligand Binding to Dynamically Populated G-Quadruplex DNA. ChemBioChem, 2021, 22, 1811-1817.	2.6	16
34	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
35	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
36	A Single Molecule Polyphenylene-Vinylene Photonic Wire. ACS Nano, 2021, 15, 9404-9411.	14.6	14

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37	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. Faraday Discussions, 2015, 184, 275-303.	3.2	13
38	Terahertz-optical mixing in undoped and doped GaAs quantum wells: From excitonic to electronic intersubband transitions. Physical Review B, 2005, 72, .	3.2	12
39	Preventing Protein Adsorption from a Range of Surfaces Using an Aqueous Fish Protein Extract. Biomacromolecules, 2009, 10, 2759-2766.	5.4	12
40	Dynamics of Fluorescent Dyes Attached to Gâ€œQuadruplex DNA and their Effect on FRET Experiments. ChemPhysChem, 2015, 16, 2562-2570.	2.1	12
41	Bandgap Tuning in Molecular Alloy Crystals Formed by Weak Chalcogen Interactions. Journal of Physical Chemistry Letters, 2021, 12, 3059-3065.	4.6	12
42	Structural Dynamics of Nucleic Acids by Single-Molecule FRET. Methods in Cell Biology, 2013, 113, 1-37.	1.1	11
43	Engineering a Prototypic P-type ATPase <i>Listeria monocytogenes</i> Ca²⁺-ATPase 1 for Single-Molecule FRET Studies. Bioconjugate Chemistry, 2016, 27, 2176-2187.	3.6	9
44	Single molecule analysis of structural fluctuations in DNA nanostructures. Nanoscale, 2019, 11, 18475-18482.	5.6	9
45	Observation of a persistent infrared absorption following two photon ionization of liquid water. Chemical Physics, 2006, 328, 119-124.	1.9	8
46	Nonlinear optical dynamics of excitons and trions. Physica Status Solidi (B): Basic Research, 2003, 238, 513-516.	1.5	7
47	Labeled EF-Tus for Rapid Kinetic Studies of Pretranslocation Complex Formation. ACS Chemical Biology, 2014, 9, 2421-2431.	3.4	7
48	Ultra-fast detection and quantification of nucleic acids by amplification-free fluorescence assay. Analyst, The, 2020, 145, 5836-5844.	3.5	7
49	Oscillatory behaviour in the nonlinear emission of semiconductor microcavities. Semiconductor Science and Technology, 2004, 19, S333-S335.	2.0	5
50	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
51	Radiative Lifetime of Negative Trions in GaAs and CdTe Quantum Wells. Physica Status Solidi A, 2000, 178, 495-499.	1.7	4
52	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
53	Controlled aggregation of DNA functionalized poly(phenylene-vinylene). Chemical Communications, 2018, 54, 5534-5537.	4.1	4
54	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

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55	Enzyme-free colorimetric detection systems based on the DNA strand displacement competition reaction. <i>New Journal of Physics</i> , 2016, 18, 055002.	2.9	3
56	Extended DNA Tile Actuators. <i>ChemPlusChem</i> , 2012, 77, 636-642.	2.8	1
57	Single Molecule FRET Analysis of the Closed and Open States of a DNA Origami Box. <i>Biophysical Journal</i> , 2015, 108, 175a.	0.5	1
58	Fast and User-Friendly Single-Molecule FRET Microscopy Software. <i>Biophysical Journal</i> , 2015, 108, 163a.	0.5	1
59	Superresolution techniques, biophysics with nanostructures, and fluorescence energy transfer: general discussion. <i>Faraday Discussions</i> , 2015, 184, 143-162.	3.2	1
60	The Power of Single-Molecule FRET Microscopy Applied to DNA Nanotechnology. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 53-68.	0.2	1
61	How Do Electrons, Excitons and Trions Share The Reciprocal Space In A Quantum Well?. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
62	Multiplex coherent anti-Stokes Raman scattering microscopy implemented with two photonic crystal fibers. , 0, , .		0
63	Excitonic Autler-Townes splitting induced by an intense terahertz field. , 0, , .		0
64	tRNA Annealing onto the HIV-1 Genome Studied by FRET Spectroscopy and Microscopy. <i>Biophysical Journal</i> , 2012, 102, 278a.	0.5	0
65	Structural Dynamics and Polymorphism of Telomeric G-Quadruplex DNA Structures. <i>Biophysical Journal</i> , 2014, 106, 65a.	0.5	0
66	Function and Movement of a DNA Actuator Investigated by Single Molecule Fret Microscopy. <i>Biophysical Journal</i> , 2014, 106, 226a.	0.5	0
67	Biosensors: Construction of a Fuzzy and Boolean Logic Gates Based on DNA (Small 15/2015). <i>Small</i> , 2015, 11, 1860-1860.	10.0	0
68	Insights into Nucleic Acids Structural Dynamics with Single Molecule FRET Studies. <i>Biophysical Journal</i> , 2015, 108, 6a.	0.5	0
69	Influence of the Background in Single Molecule FRET TIRF Microscopy. <i>Biophysical Journal</i> , 2016, 110, 194a.	0.5	0
70	Probing the Folding Dynamics of Human Telomeric G-Quadruplex with Single-Molecule FRET. <i>Biophysical Journal</i> , 2016, 110, 406a.	0.5	0
71	Single - Molecule Fluorescence Microscopy of Folding Dynamics of G-Quadruplex DNA. <i>Biophysical Journal</i> , 2017, 112, 214a-215a.	0.5	0
72	Single-Molecule FRET Investigations of Tandem Human Telomeric G-Quadruplex Structures. <i>Biophysical Journal</i> , 2018, 114, 597a.	0.5	0

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73	Recombination Dynamics of Negatively Charged Excitons in Gated GaAs Quantum Wells. , 2000, , 169-172.		0
74	Non-Linear Effects on the Spin Dynamics of Polaritons in IIâ€“VI Microcavities. , 2003, , 63-78.		0
75	Terahertz-optical mixing in n-doped GaAs quantum wells: suppression of excitonic resonances. , 2004, , .		0