

# Andrew H Marcus

## List of Publications by Year in descending order

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68  
papers

2,855  
citations

186265

28  
h-index

175258

52  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2424  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-dependent local conformations and conformational distributions of cyanine dimer labeled single-stranded double-stranded DNA junctions by 2D fluorescence spectroscopy. <i>Journal of Chemical Physics</i> , 2022, 156, 045101.	3.0	24
2	Determining local nucleic acid base conformations by fourier transform spectroscopy of 6-methyl isoxanthopterin (6-MI) substituted DNA fork constructs. <i>Biophysical Journal</i> , 2022, 121, 62a.	0.5	0
3	Modeling the Electronic Absorption Spectra of the Indocarbocyanine Cy3. <i>Molecules</i> , 2022, 27, 4062.	3.8	8
4	Dinucleotides as simple models of the base stacking-unstacking component of DNA "breathing" mechanisms. <i>Nucleic Acids Research</i> , 2021, 49, 1872-1885.	14.5	9
5	Single Molecule Fluorescence Methods to Monitor Site-Specific Fluctuations of Cy3 Monomer and Dimer Labeled DNA Constructs within Macromolecular Machines. <i>Biophysical Journal</i> , 2021, 120, 184a.	0.5	0
6	How large is the quantum enhancement of two-photon absorption by time-frequency entanglement of photon pairs?. <i>Optica</i> , 2021, 8, 757.	9.3	27
7	Quantifying the enhancement of two-photon absorption due to spectral-temporal entanglement. <i>Optics Express</i> , 2021, 29, 20022.	3.4	36
8	Experimental feasibility of molecular two-photon absorption with isolated time-frequency-entangled photon pairs. <i>Physical Review Research</i> , 2021, 3, .	3.6	41
9	Submillisecond Conformational Transitions of Short Single-Stranded DNA Lattices by Photon Correlation Single-Molecule Förster Resonance Energy Transfer. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9426-9440.	2.6	19
10	Entangled two-photon absorption by atoms and molecules: A quantum optics tutorial. <i>Journal of Chemical Physics</i> , 2021, 155, 081501.	3.0	30
11	Accurate Modeling of Excitonic Coupling in Cyanine Dye Cy3. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7852-7866.	2.5	13
12	Two-Photon Absorption in Molecules by time-frequency-entangled photon pairs: the roles of photon-number correlations and spectral correlations. , 2021, , .		1
13	Phase-Modulated Interferometry, Spectroscopy, and Refractometry using Entangled Photon Pairs. <i>Advanced Quantum Technologies</i> , 2020, 3, 1900114.	3.9	15
14	Roadmap on quantum light spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 072002.	1.5	101
15	Fluorescence-detected Fourier transform electronic spectroscopy by phase-tagged photon counting. <i>Optics Express</i> , 2020, 28, 25194.	3.4	19
16	Local DNA Base Conformations and Ligand Intercalation in DNA Constructs Containing Optical Probes. <i>Biophysical Journal</i> , 2019, 117, 1101-1115.	0.5	8
17	Measuring local conformations and conformational disorder of (Cy3) <sub>2</sub> dimer labeled DNA fork junctions using absorbance, circular dichroism and two-dimensional fluorescence spectroscopy. <i>Faraday Discussions</i> , 2019, 216, 211-235.	3.2	36
18	The Many Roles of Binding Cooperativity in the Control of DNA Replication. <i>Biophysical Journal</i> , 2019, 117, 2043-2046.	0.5	8

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19	Temperature-dependent conformations of exciton-coupled Cy3 dimers in double-stranded DNA. <i>Journal of Chemical Physics</i> , 2018, 148, 085101.	3.0	58
20	Using microsecond single-molecule FRET to determine the assembly pathways of T4 ssDNA binding protein onto model DNA replication forks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3612-E3621.	7.1	23
21	Using Site Specific Fluorescent Probes to Examine Replication Fork Destabilization by Regulatory Proteins of the Bacteriophage T4 DNA Replication Complex. <i>Biophysical Journal</i> , 2017, 112, 314a-315a.	0.5	0
22	Using Multiorder Time-Correlation Functions (TCFs) To Elucidate Biomolecular Reaction Pathways from Microsecond Single-Molecule Fluorescence Experiments. <i>Journal of Physical Chemistry B</i> , 2016, 120, 13003-13016.	2.6	15
23	Single-molecule FRET studies of the cooperative and non-cooperative binding kinetics of the bacteriophage T4 single-stranded DNA binding protein (gp32) to ssDNA lattices at replication fork junctions. <i>Nucleic Acids Research</i> , 2016, 44, 10691-10710.	14.5	12
24	Phase-synchronous detection of coherent and incoherent nonlinear signals. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 015504.	2.2	35
25	Binding of the Single-Stranded DNA Binding Protein (gp32) of T4 Bacteriophage Induces Position-Specific Local Conformational Changes in DNA Lattices that can be Monitored by Fluorescent Probes. <i>Biophysical Journal</i> , 2016, 110, 239a.	0.5	0
26	Electric Dipole Transition Moments and Solvent-Dependent Interactions of Fluorescent Boron- <sup>18</sup> Nitrogen Substituted Indole Derivatives. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7985-7993.	2.6	8
27	Sequence-Dependent Conformational Heterogeneity and Proton-Transfer Reactivity of the Fluorescent Guanine Analogue 6-Methyl Isoxanthopterin (6-MI) in DNA. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12798-12807.	2.6	3
28	Quantum process tomography by 2D fluorescence spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 142, 212442.	3.0	17
29	Coherent two-dimensional photocurrent spectroscopy in a PbS quantum dot photocell. <i>Nature Communications</i> , 2014, 5, 5869.	12.8	141
30	Internally labeled Cy3/Cy5 DNA constructs show greatly enhanced photo-stability in single-molecule FRET experiments. <i>Nucleic Acids Research</i> , 2014, 42, 5967-5977.	14.5	57
31	Fifty years of DNA "Breathing": Reflections on old and new approaches. <i>Biopolymers</i> , 2013, 99, 923-954.	2.4	105
32	Entangled Photon-Pair Two-Dimensional Fluorescence Spectroscopy (EPP-2DFS). <i>Journal of Physical Chemistry B</i> , 2013, 117, 15559-15575.	2.6	96
33	Biography of Michael D. Fayer. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15237-15237.	2.6	0
34	Tribute to Michael D. Fayer. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15235-15236.	2.6	0
35	A Single-Molecule View of the Assembly Pathway, Subunit Stoichiometry, and Unwinding Activity of the Bacteriophage T4 Primosome (helicase-primase) Complex. <i>Biochemistry</i> , 2013, 52, 3157-3170.	2.5	25
36	Temperature-Dependent Conformations of a Membrane Supported Zinc Porphyrin Tweezer by 2D Fluorescence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6171-6184.	2.5	26

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37	Single-molecule FRET and linear dichroism studies of DNA breathing and helicase binding at replication fork junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17320-17325.	7.1	82
38	Solution conformation of 2-aminopurine dinucleotide determined by ultraviolet two-dimensional fluorescence spectroscopy. <i>New Journal of Physics</i> , 2013, 15, 025028.	2.9	49
39	Electronic transition moments of 6-methyl isoxanthopterin—a fluorescent analogue of the nucleic acid base guanine. <i>Nucleic Acids Research</i> , 2013, 41, 995-1004.	14.5	9
40	Characterization of the 6-methyl isoxanthopterin (6-MI) base analog dimer, a spectroscopic probe for monitoring guanine base conformations at specific sites in nucleic acids. <i>Nucleic Acids Research</i> , 2012, 40, 1191-1202.	14.5	31
41	Compressed Sensing for Multidimensional Spectroscopy Experiments. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2697-2702.	4.6	50
42	Conformation and Electronic Population Transfer in Membrane-Supported Self-Assembled Porphyrin Dimers by 2D Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10757-10770.	2.6	67
43	Conformation of self-assembled porphyrin dimers in liposome vesicles by phase-modulation 2D fluorescence spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16521-16526.	7.1	112
44	Actin polymerization driven mitochondrial transport in mating <i>S. cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 721-725.	7.1	39
45	Subcellular Dynamics and Protein Conformation Fluctuations Measured by Fourier Imaging Correlation Spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2010, 61, 111-128.	10.8	7
46	II. Kinetic Pathways of Switching Optical Conformations in DsRed by 2D Fourier Imaging Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6854-6860.	2.6	7
47	I. Conformational Dynamics of Biological Macromolecules by Polarization-Modulated Fourier Imaging Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6847-6853.	2.6	2
48	Dynamics of Conformational Transitions in DsRed as Detected by Polarization-Modulated MFICS. <i>Biophysical Journal</i> , 2009, 96, 208a.	0.5	0
49	Chapter 6 Fourier Imaging Correlation Spectroscopy for Cellular Structure—Function. <i>Methods in Cell Biology</i> , 2008, 90, 117-137.	1.1	2
50	Fluorescence-detected two-dimensional electronic coherence spectroscopy by acousto-optic phase modulation. <i>Journal of Chemical Physics</i> , 2007, 127, 214307.	3.0	268
51	Control of nuclear centration in the <i>C. elegans</i> zygote by receptor-independent $G\hat{1}\pm$ signaling and myosin II. <i>Journal of Cell Biology</i> , 2007, 178, 1177-1191.	5.2	39
52	Translational Diffusion of Fluorescent Proteins by Molecular Fourier Imaging Correlation Spectroscopy. <i>Biophysical Journal</i> , 2006, 91, 3482-3498.	0.5	11
53	Wave packet interferometry and quantum state reconstruction by acousto-optic phase modulation. <i>Journal of Chemical Physics</i> , 2006, 125, 194303.	3.0	90
54	Direct measurement of relative and collective diffusion in a dilute binary colloidal suspension. <i>Journal of Chemical Physics</i> , 2005, 122, 234909.	3.0	2

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55	Cytoskeletal-assisted dynamics of the mitochondrial reticulum in living cells. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14772-14777.	7.1	53
56	Heterogeneous distribution of pyruvate dehydrogenase in the matrix of mitochondria. Mitochondrion, 2002, 1, 327-338.	3.4	32
57	Structure and dynamics of fluorescently labeled complex fluids by Fourier imaging correlation spectroscopy. Physical Review E, 2000, 62, 8245-8257.	2.1	8
58	Measurement of the Dynamic Structure Function of Fluorescently Labeled Complex Fluids by Fourier Imaging Correlation Spectroscopy. Physical Review Letters, 2000, 85, 2837-2840.	7.8	12
59	Dynamics of the Mitochondrial Reticulum in Live Cells using Fourier Imaging Correlation Spectroscopy and Digital Video Microscopy. Biophysical Journal, 2000, 79, 1833-1849.	0.5	40
60	Experimental observations of non-Gaussian behavior and stringlike cooperative dynamics in concentrated quasi-two-dimensional colloidal liquids. Physical Review E, 1999, 60, 5725-5736.	2.1	137
61	Unusual structure in a quasi-two-dimensional binary colloid fluid. Chemical Physics Letters, 1998, 294, 217-222.	2.6	2
62	Phase transitions in a confined quasi-two-dimensional colloid suspension. Physical Review E, 1997, 55, 637-656.	2.1	120
63	Observations of First-Order Liquid-to-Hexatic and Hexatic-to-Solid Phase Transitions in a Confined Colloid Suspension. Physical Review Letters, 1996, 77, 2577-2580.	7.8	164
64	Self-diffusion in dilute quasi-two-dimensional hard sphere suspensions: Evanescent wave light scattering and video microscopy studies. Physical Review E, 1996, 53, 1765-1776.	2.1	35
65	Nanodomain formation in a liquid polymer blend: The initial stages of phase separation. Journal of Chemical Physics, 1995, 103, 8189-8200.	3.0	23
66	Structure of complex systems using electronic excitation transport: Theory, Monte Carlo simulations, and experiments on micelle solutions. Journal of Chemical Physics, 1994, 100, 271-286.	3.0	26
67	5-Isothiocyanatopupukeanane from a sponge of the genus Axinyssa. Journal of Organic Chemistry, 1989, 54, 5184-5186.	3.2	31
68	Jaspamide, a modified peptide from a Jaspis sponge, with insecticidal and antifungal activity. Journal of the American Chemical Society, 1986, 108, 3123-3124.	13.7	288